



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.A. DEGREE
Branch IA HISTORY AND TOURISM
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086

DEPARTMENT OF HISTORY

PROGRAMME DESCRIPTION

The programme offers a range of courses that provide an overview of Indian history, world history as well as interdisciplinary courses on tourism and hospitality. The programme also has courses such as Indian Constitution, Gender Studies, Performing Arts, Art and Architecture, Entrepreneurship, Global Cuisines and Airport Customer Services. Students graduating from the programme move on to careers as teachers, lawyers, researchers, bankers, civil servants, travel and tourism professionals, managers and entrepreneurs.

The programme offers value-added, skill-oriented and extra credit optional certificate courses such as Tour Leaders and Travel Consultancy, Introduction to Archaeology, Airport Management, Event Management, and foreign language courses on Spanish, German and Mandarin and coaching for the UPSC examinations.

The students are provided an opportunity to take up internships during their course of study. The Department has its own Heritage Club to instil in students the need to appreciate and preserve India's tangible and intangible heritage.

Regular field trips and study tours are organised to provide students an experiential learning of India's tourism resources. The Department publishes an annual journal called "Parivartana" which provides the students with a forum to express their ideas and creativity.

VISION OF THE DEPARTMENT

To build a community of empowered women - students, teachers, and alumnae - who are responsible citizens and have the knowledge, skills, and sensitivity to value and protect India's diversity, heritage, and culture, and who practice the values of inclusiveness, compassion and humaneness.

MISSION OF THE DEPARTMENT

To create in our students an understanding of the fundamental facets and the methods of scholarship in the fields of history and tourism; expose them to rigorous academic standards; and to create a lively educational environment enriched by collaboration with industry and hands-on learning.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
PROGRAMME SPECIFIC OUTCOMES (PSOs)

**On successful completion of the B.A. History and Tourism Programme,
the students will be able to**

PSO1	demonstrate a grounding in the facts and methods of the academic disciplines of history and tourism; the ability to apply critical thinking and analyse them.
PSO2	enhance their communication, teamwork and leadership skills.
PSO3	apply their knowledge to understand and appreciate the heritage of India leading to its conservation and promotion.
PSO4	display openness to diversity in points of view, creativity, and the ability to see opportunities and manage businesses in tourism, culture, and heritage
PSO5	display understanding of and sensitivity to political, socio-economic, cultural and environmental issues

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.A. History and Tourism 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	4	5	4	5	4	5	4	5	4	5	4	5	24	30
Major Core	3	4	4	5	3	4	4	5	4	5	4	5	22	28
									4	5	4	5	8	10
									3	4	3	4	6	8
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	112
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1				1					0	2
Mentoring		1		1		1		1		1		1	0	6
											Total		4	10
Total	26	30	25	30	25	30	24	30	24	30	25	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: BRANCH I A - HISTORY AND TOURISM

**COURSES OF STUDY
(Effective from the Academic Year 2023-2024)
CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER I									
23HS/MC/AI14	Ancient India up to CE 700	4	4	1	0	3	50	50	100
23HS/MC/IT13	Introduction to Tourism	3	3	1	0	3	50	50	100
23HS/AC/TN15	History of Tamil Nadu up to the 19th Century	5	5	0	0	3	50	50	100
23HS/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23HS/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
CD/ET/SC	Value Education								
SEMESTER II									
23HS/MC/MI24	Medieval India (CE 712-1707)	4	4	1	0	3	50	50	100
23HS/MC/MO24	Modern India (CE 1707-1858)	4	4	1	0	3	50	50	100
23HS/AC/GT25	Geography for Tourism	5	5	0	0	3	50	50	100
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER III									
23HS/MC/IM34	Indian National Movement	4	4	1	0	3	50	50	100
23HS/MC/HU33	History of USA up to 1968	3	3	1	0	3	50	50	100
23HS/AC/CH35	Social and Cultural Heritage of Chennai City	5	5	0	0	3	50	50	100
23HS/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD/ET/SC	Value Education	2	2	0	0	-	50	-	100
	General Elective II / Basic Tamil II								
SEMESTER IV									
23HS/MC/CO44	Contemporary India (1947-2014)	4	4	1	0	3	50	50	100
23HS/MC/HE44	History of Europe (1648-1871)	4	4	1	0	3	50	50	100
23HS/AC/GC45	Global Cuisines	5	5	0	0	3	50	50	100
	Major Elective-I								
SEMESTER V									
23HS/MC/EU54	History of Europe (1871-1945)	4	4	1	0	3	50	50	100
23HS/MC/WC54	History of World Civilisations	4	4	1	0	3	50	50	100
23HS/MC/IL54	Intellectual History	4	4	1	0	3	50	50	100
23HS/MC/GS53	Gender Studies	3	3	1	0	3	50	50	100
	General Elective III								
	SAP / SL								
Interdisciplinary Core (HS and CM) to students of History and Commerce (Shift I)									
23ID/IC/TM55	Tourism Marketing	5	5	1	0	3	50	50	100
SEMESTER VI									
23HS/MC/IR64	International Relations Since 1945	4	4	1	0	3	50	50	100

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**COURSES OF STUDY
(Effective from the Academic Year 2023-2024)
CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23HS/MC/IC64	Indian Constitution	4	4	1	0	3	50	50	100
23HS/MC/AT64	Art and Architecture in India	4	4	1	0	3	50	50	100
23HS/MC/CJ63	History of China and Japan (1839-2003)	3	3	1	0	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective-II								
Major Electives									
23HS/ME/IH45	Indian Heritage and Tourism	5	5	0	0	3	50	50	100
23HS/ME/IN45	India and Her Neighbours(1947-2004)	5	5	0	0	3	50	50	100
23HS/ME/AS45	Airport Customer Services	5	5	0	0	3	50	50	100
23HS/ME/ET45	Entrepreneurship	5	5	0	0	3	50	50	100
23HS/ME/AR45	Introduction to Archaeology	5	5	0	0	3	50	50	100
23HS/ME/PR45	Project	5	0	0	5	-	-	50	100
General Electives									
23HS/GE/HC22	History of Chennai City	2	2	0	0	-	50	-	100
23HS/GE/IP22	Introduction to Indian Performing Arts and Painting	2	2	0	0	-	50	-	100
23HS/GE/AC22	Appreciation of Indian Cinema	2	2	0	0	-	50	-	100
23HS/GE/FI22	Fundamentals of the Indian Constitution	2	2	0	0	-	50	-	100
23HS/GE/IA22	International Affairs Since 1945	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23HS/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23HS/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23HS/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23HS/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23HS/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23HS/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23HS/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23HS/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23HS/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Service Learning Course (specific to the Department)									
23HS/SL/HA52	Heritage Awareness	2	2	0	0	-	50	-	100
Independent Electives									
23HS/UI/SA23	History of South East Asia since 1945	3	0	0	0	3	-	100	100
23HS/UI/CJ23	China and Japan in the 20th Century	3	0	0	0	3	-	100	100

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B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

ANCIENT INDIA UPTO CE 700

CODE:23HS/MC/AI14

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable students to understand India's cultural and historical legacy
- To instill in students a sense of pride in Indian history and heritage.
- To help students learn about the evolution of states in ancient India
- To develop understanding of changes in Indian society over time
- To equip students to comprehend intercultural influences across the world in the ancient period

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	list out individuals and places associated with the ancient history of India.	K1
CO2	discuss aspects of Indian society and culture.	K2
CO3	differentiate periods in the evolution of ancient Indian history.	K3
CO4	collect, collate and analyse facts on the subject.	K4
CO5	compile sources to evaluate how the history of India is constructed	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction	K1-K3	10	1-5
	1.1 Physical Features of India	K2-K3		
	1.2 Effects of Geography on Indian History	K1-K5		
	1.3 Sources – Indigenous and Foreign			
2	Mauryan India – Salient Features	K1-K3	15	1-5
	2.1 Harappan Civilization	K1-K4		
	2.2 Vedic Age - Rise of Jainism and Buddhism	K1-K4		
	2.3 Rise of Magadha, Nanda Empire - Satavahanas	K1-K4		

UNIT	CONTENT	CL	Hrs	CO
3	Imperial Age of the Mauryas 3.1 Rise of the Mauryan Empire 3.2 Administration and Cultural Contributions 3.3 Kushans and their Cultural Contributions	K1-K4 K3-K5 K3-K5	15	1-5
4	Age of Guptas 4.1 Gupta Administration 4.2 Revival of Hinduism, Language and Literature 4.3 Socio-Economic and Cultural Contributions	K1-K3 K1-K4 K3-K5	15	1-5
5	Last Empire of Ancient India 5.1 Rise of the Pushyabhuti dynasty 5.2 Administrative and Cultural Contributions 5.3 India after Harsha	K1-K3 K3-K5 K1-K4	10	1-5

BOOKS FOR STUDY

Paddayya, K., and Bishnupriya Basak. *Prehistoric Research in the Indian Subcontinent: A Reappraisal and New Directions*. Primus Books, 2018.

Sharma, R.S. *India's Ancient Past*. Oxford University Press, 2018.

BOOKS FOR REFERENCE

Basham, A.L. *A Cultural History of India*. Oxford University Press, 2006.

Goyal, S. *Contemporary Interpretation of Ancient India*. Book Enclave, 2003.

Jha, D.N. *Ancient India*. Manohar, 2004.

Majumdar, R. C. *Ancient India*. Motilal Banarsidass, 2017.

Singh, U. *A History of Ancient and Early Medieval India*. Pearsons, 2009.

JOURNALS

Indian Historical Review, ICHR, New Delhi.

Journal of History and Social Sciences, New Delhi.

Quarterly Review of Historical Studies, Institute of Historical Studies, Kolkata.

WEB RESOURCES

www.culturalindia.net

www.britannica.com/EBchecked/topic/285516/history-of-India

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C –1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/AI14												
	Course Title: Ancient India up to CE 700												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	1	2	2	1	2	3	2	3	1	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	2	3	3	3	3	3	3	2	2	3	3	3
CO 4	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 5	3	3	2	3	3	3	3	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO TOURISM

CODE:23HS/MC/IT13

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To help students understand the significance of tourism
- To enable students to appreciate the need for tourism promotion
- To enable students to learn about the diversified resources of India
- To instil in students an appreciation of Indian heritage
- To create awareness of the challenges and constraints of the tourism industry

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	list out destinations of tourist importance and define tourist terms	K1, K2
CO2	discuss aspects of Indian culture and heritage	K3
CO3	collect, collate and analyse facts on the subject	K4
CO4	assess and interpret the dimensions of the tourism industry	K5
CO5	create tourism brochures and itineraries	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Tourism 1.1 Definitions – Tourism, Tourist/Traveller 1.2 Basic Components of Tourism, Elements of Tourism 1.3 Types of Tourism – Business tourism, Mass Tourism, Cultural Tourism and Heritage, Environmental Tourism, Medical tourism	K1-K3 K4-K5 K1-K5	10	1-5
2	Significance of Tourism 2.1 Cultural Tourism in India – Heritage Sites in India – World UNESCO Sites 2.2 Types of Cultural Tourism - Travel Circuits: Golden Triangle, Desert Circuit, Buddhist circuits, Backwaters, Sun and Sand - Indian Railways and Special Trains	K1-K3 K1-K4	10	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.3 Tourism Sustainability – Basic Strategies – Environment Impact Assessment (EIA) – Geographic Information System (GIS) and its Application in Tourism	K1-K4		
3	Eco-Tourism and Related Issues 3.1 Definition of Eco-Tourism 3.2 Protected Areas and Sustainable Tourism 3.3 Wildlife Tourism, Agro-Tourism, Rural Tourism, Wildlife Conservation, Desert Safaris	K1-K4 K3-K5 K3-K6	12	1-5
4	Tourism and Contemporary Issues 4.1 Role of Information Technology in Tourism Development 4.2 Future Trends in Tourism 4.3 Human Rights and Tourism	K1-K3 K1-K4 K3-K5	10	1-5
5	Tourism Administration 5.1 Tourism Administration in India – Ministry of Tourism (Government of India) – National Tourist Organisation (NTO) – World Tourism Day 5.2 ITDC – TTDC 5.3 Incredible India - Brand Ambassadors of Tourism Promotion	K1-K3 K3-K5 K1-K4	10	1-5

BOOKS FOR STUDY

Camilleri, Mark A. *Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice*. Springer Publications, 2018.

Saroop Roy, B.R. *An Introduction to the Business of Tourism*. Sage Publications, 2017.

BOOKS FOR REFERENCE

Barkat, A.M.A. *Travel and Tourism Management*. Prentice Hall India Learning, 2015.

Page, Stephen J. *Tourism Management*. Routledge, 2015.

Kumar, Chiranjib, and Aditi Choudhary. *Introduction to Tourism and Hospitality*. Create Space Independent Publishing, 2017.

Sharma, Kshitiz. *Introduction to Tourism Management*. McGraw Hill Education, 2017.

Walker, John R. *Introduction to Hospitality*. Pearson, 2017.

JOURNALS

International Journal of Tourism Research, John Wiley, USA.

ASEAN Journal on Hospitality and Tourism, Tourism Research and Development Centre, Institut Teknologi Bandung, Indonesia.

WEB RESOURCES

www.worldleisure.org

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (10)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (10)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50	11	15

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 question	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 question	3 K6 questions
	Total	100	18	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/IT13												
	Course Title: Introduction to Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	3	2	2	2	2
CO 2	3	3	3	3	3	2	2	2	3	3	3	3	3
CO 3	3	2	3	3	3	2	2	2	3	2	3	3	3
CO 4	3	3	3	3	2	3	3	3	3	3	3	3	2
CO 5	3	3	3	3	2	3	1	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

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B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF TAMIL NADU UPTO THE 19th CENTURY

CODE:23HS/AC/TN15

CREDITS: 5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable the students to understand the historical evolution of the Tamil country
- To help students appreciate the rich socio-cultural history of Tamil Nadu
- To give students an understanding of Tamil Nadu's interactions with the rest of the world
- To help students understand the sources on which historical writing is based
- To introduce students to the challenges of colonialism in Tamil Nadu

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify people, places, events and monuments significant in the history of Tamil Nadu.	K1
CO2	describe the significant periods in the history of Tamil Nadu.	K2
CO3	compare and contrast that art, architecture, and cultural contributions of the various kingdoms of Tamil Nadu.	K3
CO4	analyse the significant influences in the history of Tamil Nadu.	K4
CO5	synthesise sources and evaluate how the history of Tamil Nadu is constructed	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction, Prehistory and the Sangam Age 1.1 Geography of Ancient Tamilaham 1.2 Sources for the Study 1.3 The Sangam Age: Social, Economic, and Cultural Conditions	K1-K3 K1-K5 K1-K5	10	1-5
2	Early Kingdoms of Tamil Nadu 2.1 Pallavas - Mahendravarman I, Narasimhavarman Mamalla 2.2 Cholas - Rajaraja I, Rajendra I, Kulothunga I	K1-K3 K1-K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.3 Pandyas - Maravarman Sundara Pandya I, Jatavarman Sundara Pandya I	K1-K4		
3	Later Kingdoms of Tamil Nadu 3.1 Vijayanagar - Harihara, Bukka, Krishnadevaraya 3.2 The Age of the Nayaks: Madurai Thanjavur and Gingi 3.3 Cultural Contribution of Nayaks	K1-K4 K1-K5 K1-K5	15	1-5
4	Cultural Contributions 4.1 Buddhism and Jainism 4.2 Bhakthi Movement 4.3 Saivism and Vaishnavism	K1-K3 K1-K5 K3-K5	15	1-5
5	Freedom Struggle in Tamil Nadu 5.1 The Poligar Wars 5.2 Vellore Mutiny 5.3 Early Political Associations and the Congress in Tamil Nadu	K1-K3 K1-K5 K1-K4	10	1-5

**** Field Trip – Mahabalipuram – Vellore Fort - Kancheepuram**

BOOKS FOR STUDY

Gandhi, Rajmohan. *Modern South India*. Aleph, 2018.

Karashima, Noboru. *A Concise History of South India*. Oxford University Press, 2014.

Sastri, K.A.N. *History of South India*. Oxford University Press, 2002.

BOOKS FOR REFERENCE

C. Minakshi. *Administration and Social Life under the Pallavas*. University of Madras, 1938.

Narayanan, M.G.S. *Foundations of South India Society and Culture*. Bharatiya, 2000.

Sastri, K.A.N. *The Colas*. University of Madras, 1984.

Shastri, K.S. Ramaswamy. *The Tamils: The People, Their History and Culture*. Cosmo Publications, 2002, 5 vols.

Sundararajan, Saroja. *Madras Presidency in the Pre-Gandhian Era*. Lalitha Publications, 1997.

JOURNALS

Journal of Indian History and Culture, CPR Foundation, Chennai.

WEB RESOURCES

www.indianheritage.org

www.internetarchive.org

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/AC/TN15												
	Course Title: History of Tamil Nadu up to the 19th Century												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	1	2	3	2	3	2	2
CO 2	3	2	2	2	2	1	1	2	3	3	3	2	2
CO 3	3	3	3	2	2	2	2	3	3	2	3	3	2
CO 4	3	3	2	2	2	2	2	3	3	2	3	3	2
CO 5	3	3	3	2	2	2	2	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE: 23HS/GC/ES12

CREDITS: 2

L T P : 2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component:

Total Marks: 25

Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23HS/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group discussions
- Group presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

MEDIEVAL INDIA (CE 712-1707)

CODE: 23HS/MC/MI24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the foundation of Islamic and Mughal Rule in India.
- To help students study the administrative and economic experiments of the age.
- To understand the social and cultural aspects of Medieval India.
- To analyse the impact of Islamic rule in India.
- To enable students to trace the causes that led to the disintegration of the Mughal empire.

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	list out individuals and places associated with the history of Medieval India.	K1
CO2	explain aspects of Medieval Indian society and culture.	K2
CO3	outline the evolution of medieval Indian history.	K3
CO4	analyse causes for the birth and rise of Sikhism.	K4
CO5	critically evaluate issues related to medieval Indian history.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Foundation of Islamic Rule 1.1 Sources 1.2 Arab Conquest of Sind 1.3 Political Sketch of Delhi Sultanate – Slave, Khilji, Tughlaq, Sayyid and Lodi Dynasties; Disintegration of the Sultanate	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Religious Movements and their impact 2.1 Sufism 2.2 Bhakthi Movements 2.3 Sikhism	K1-K3 K1-K4 K1-K4	10	CO1-5
3	Rise of the Mughal Rule 3.1 Political Sketch of the Early Mughals - Babur, Humayun, Akbar, Jehangir, Shah Jahan, Aurangzeb	K1-K4 K3-K5 K3-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
	3.2 Afghan Interregnum 3.3 Administrative and economic systems under the Mughals			
4	Disintegration of the Mughal Empire 4.1 Rise of provincial dynasties: Malwa, Bahmani, Ahom 4.2 Maratha ascendancy under the Peshwas 4.3 Causes for the Downfall of the Mughals	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Society and Culture 5.1 Art, Architecture, and Painting 5.2 Music and Literature 5.3 Social Conditions	K1-K3 K3-K5 K1-K5	10	CO1-5

**** Two days Field Trip to Thanjavur****

BOOKS FOR STUDY

Dahiya, Poonam Dalal. *Ancient and Medieval India*. McGraw Hill Education, 2017
Khurana, K.L. *Medieval India (1000-1761 A.D.)*. LNA Educational, 2017.

BOOKS FOR REFERENCE

Chandra, S. *A History of Medieval India*. Orient Longman, 2008.
Chandra, S. *Essays on Medieval Indian History*. Oxford University, 2003.
Farooqui, Salma. *A Comprehensive History of Medieval India from Twelfth to the Mid Eighteenth Century*. Pearson Education India, 2011.
Mehta, J. L. *An Advanced Study in the History of Medieval India*. Sterling, 2002. 2 vols.
Salma Ahmed Farooqi. *A Comprehensive History of Medieval India: Twelfth to the Mid Eighteenth Century*. Pearson Education, 2011.

JOURNALS

Indian Historical Review, ICHR, New Delhi.
Journal of History and Social Sciences, ed. Pushpa Tiwari, 2014.
Quarterly Review of Historical Studies - Institute of Historical Studies, Kolkata.
Medieval History Journal, Sage Publications, New Delhi.

WEB RESOURCES

www.indiaheritage.org
www.academia.edu

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/MI24												
	Course Title: Medieval India (CE 712-1707)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	3	3	1	3	2	3
CO 2	3	3	3	2	2	2	2	2	3	1	2	2	3
CO 3	3	3	1	2	2	2	1	2	2	1	3	3	3
CO 4	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 5	3	2	2	2	2	2	2	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

MODERN INDIA (CE 1707-1858)

CODE: 23HS/MC/MO24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the circumstances leading to European penetration into India.
- To familiarize students with British expansion in India.
- To help students comprehend the policies and strategies of the East India Company.
- To create awareness on the economic impact of British colonial rule.
- To facilitate students to understand the social and cultural developments of the age.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe events leading to the advent of the Europeans.	K1
CO2	demonstrate an understanding of the Company's rule in India.	K2
CO3	illustrate the fall of regional powers.	K3
CO4	analyse causes for the rise of the British power.	K4
CO5	critique aspects of society in modern India.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Rise of Regional Powers 1.2 European penetration into India - European Settlements 1.3 British expansion in India - Carnatic, Bengal, Mysore, Marathas, Punjab	K1-K3 K4-K5 K1-K5	10	CO1-5
2	Conquest and Consolidation of the Company's Rule in India 2.1 Administrative structures - Regulating Act, Pitt's India Act, Charter Acts of 1813, 1833 and 1853 2.2 Subsidiary Alliance 2.3 Policies of Hastings and Dalhousie	K1-K3 K1-K4 K1-K4	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
3	Impact of Company's Rule in India 3.1 Land Revenue Settlements and commercialization of agriculture - Educational Policy (Macaulay's Filtration Theory, Wood's Despatch) 3.2 Dislocation of traditional trade and commerce and deindustrialization 3.3 Railway and communication networks	K1-K4 K3-K5 K3-K5	10	CO1-5
4	Social and Cultural Developments 4.1 Rise of press and literature 4.2 Christian missionaries 4.3 Social and religious reform movements	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Indian Response to British Rule 5.1 Peasant Movements and Tribal Uprisings 5.2 The Revolt of 1857 5.3 Impact - Queen's Proclamation 1858	K1-K3 K3-K5 K1-K4	15	CO1-5

**** Field Visit – Sadras - Pondicherry**

BOOKS FOR STUDY

Barrow, Ian J. *The East India Company, 1600–1858: A Short History with Documents*. Hackett Publishing Company, 2017.

Kulke, Hermann. *History of Precolonial India*. Oxford University Press, 2018.

BOOKS FOR REFERENCE

Bandhopadhyaya, S. *Plassey to Partition*. Orient Blackswan Publication, 2001.

Grover, B.L., and S. Grover. *A New Look on Modern Indian History: From 1707 to the Present Day*. S. Chand, 2012.

Keay, John. *The Honourable Company: History of the English East India Company*. HarperCollins, 2010.

Peers, Douglas M. *India under Colonial Rule: 1700-1885*. Routledge, 2013.

Tharoor, Shashi. *An Era of Darkness: The British Empire in India*. Aleph Book Company, 2016.

JOURNALS

The Journal of Peasant Studies, Taylor & Francis

Comparative Studies in Society and History, (ed.) Andrew Shryock, Society for the Comparative Study of Society and History (Quarterly).

WEB RESOURCES

www.britannica.com/EBchecked/topic/285516/history-of-India

www.victorianweb.org

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/MO24												
	Course Title: Modern India (CE 1707-1858)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	3	2	3	3	1	1	3	3
CO 2	3	2	2	1	3	2	3	3	3	1	3	3	3
CO 3	2	2	2	1	3	3	2	2	3	2	2	3	3
CO 4	2	2	2	2	2	2	3	3	3	2	1	3	3
CO 5	2	2	2	3	3	3	3	3	3	1	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

GEOGRAPHY FOR TOURISM

CODE: 23HS/AC/GT25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable students to understand map reading.
- To help them identify significant tourist locations of India.
- To acquaint students with tourism geography.
- To help them gain an understanding of city and airline codes.
- To enable students to gain knowledge on the various time zones.

COURSE LEARNING OUTCOMES

On successful completion of the course, student will be able to

COs	DESCRIPTION	CL
CO1	list out places on the Indian map.	K1
CO2	explain the significance of cultural destinations.	K2
CO3	identify places on the world map.	K3
CO4	classify theories and themes of Tourism Geography.	K4
CO5	determine world time differences.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition, scope and contents of geography of tourism 1.2 Major Landforms- Mountains, Plains, Plateaus and Valleys in the world 1.3 Climatic Conditions – Geology – Mineral Resources	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Understanding the world map 2.1 Cartography – Meaning – Definition – Origin 2.2 Major Latitudes and longitudes 2.3 Continents and countries	K1-K3 K1-K4 K1-K4	15	CO1-5
3	Map Reading 3.1 Types of Maps 3.2 Use of conventional signs and symbols 3.3 Location of Important physiographic features on the map of India.	K1-K4 K3-K5 K3-K5	13	CO1-5

UNIT	CONTENT	CL	HRS	CO
4	Tourism Geography 4.1 Location of important tourist cities, national parks, wildlife sanctuaries 4.2 Cultural, historical and religious tourist spots in India 4.3 City codes of major cities of India - Important world airline code	K1-K3 K1-K4 K3-K5	12	CO1-5
5	Time Zones 5.1 Daylight Saving time – Antipodean Day – GMT 5.2 GPRS – GIS – Calculation of World Time Zones 5.3 Modern Technology in Map Making	K1-K3 K3-K5 K1-K4	10	CO1-5

****Internship with International Tourism****

BOOKS FOR STUDY

Christopher, Cooper P. *Geography of Travel and Tourism*. Butterworth-Heinemann, 2012
 Nelson, Velvet. *An Introduction to the Geography of Tourism*. London, 2017

BOOKS FOR REFERENCE

Crowther. G. *India - A Travel Survival Kit*. Lonely Planet, 2005.
 Dixit, M. *Tourism Geography and Trends*. Royal Publication, 2010.
 Geetanjali. *Tourism Geography*. Centrum Press, 2010.
 Hall, C.M., and S.J. Page. *The Geography of Tourism and Recreation*. Routledge.
 Hussain, M. *The Geography of India*. Mc Graw-Hill.
 Singh, S. *Tourism Geography*. Random Publications.
 William. S. *Tourism Geography: A New Synthesis*. Routledge Publishers.

WEB RESOURCES

www.indiaheritage.org
www.academia.edu

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/AC/GT25												
	Course Title: Geography for Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	3	2	3	3	1	2	2	2
CO 2	3	3	3	2	2	3	3	2	3	2	3	2	2
CO 3	3	2	2	1	3	2	1	3	2	1	3	2	2
CO 4	3	3	2	2	3	3	3	2	2	3	3	2	3
CO 5	2	3	3	1	2	2	2	2	2	1	1	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A./ B.S.W. / B.V.A./B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:

Continuous Assessment :

Two Classroom Tasks

Total Marks:50

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

INDIAN NATIONAL MOVEMENT

CODE:23HS/MC/IM34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To teach students about the nation's struggle for freedom and the trials faced by the freedom fighters.
- To enable students to gain knowledge of the various movements as part of the nationalist movement.
- To enable them to understand the circumstances leading to constitutional changes.
- To help students trace the history of partition and the establishment of free India.
- To enable them to appreciate the value of diversity in India.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list out major personalities, events, and the turning points in modern Indian history.	K1
CO2	demonstrate an understanding of major events in this period.	K2
CO3	analyse from a historical point of view certain issues in contemporary India.	K3
CO4	evaluate the diversity of the Indian experience in the freedom movement.	K4
CO5	compile facts on people, places and monuments connected with India's freedom struggle.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Background to Indian Nationalism 1.1 Aftermath of the 1857 Revolt 1.2 Reform and Revival Movements 1.3 Causes for the Rise of Nationalism	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Rise and Growth of the Indian National Movement 2.1 Foundation of the Indian National Congress 2.2 Policies and Programmes 2.3 Early Nationalists and Militant Nationalists	K1-K3 K1-K4 K1-K4	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
3	Other Strands of the National Movement 3.1 Revolutionaries - The Left Wing - Socialists and Communists 3.2 Causes for the rise of communalism 3.3 Hindu and Muslim communal organizations - Hindu Mahasabha and Muslim League	K1-K4 K3-K5 K3-K5	15	CO1-5
4	Gandhian Era 4.1 The First World War and the National Movement, the Home Rule Movement 4.2 Non-Co-operation Movement - Civil Disobedience Movement - Peasant and Working-Class Movements 4.3 The Second World War and the Quit India Movement	K1-K3 K1-K4 K3-K5	10	CO1-5
5	Road to Independence 5.1 Negotiations for Independence and Partition: C.R. Plan, Wavell Plan, Cabinet Mission Plans and Mountbatten Plan 5.2 Events leading to Partition 5.3 Transfer of Power and Indian Independence Act	K1-K3 K3-K5 K1-K4	10	CO1-5

BOOKS FOR STUDY

Dube, I.B. *A History of Modern India*. Cambridge University, 2014.
 Sarkar, S. *Modern India 1885-1947*. Macmillan, 2001.

BOOKS FOR REFERENCE

Bandhopadhyay, S. *From Plassey to Partition*. Orient Blackswan, 2004.
 Grover, B.L., and S. Grover. *A New Look on Modern Indian History (from 1707 to the Present Day)*. S. Chand, 1998.
 Guha, R. *Makers of Modern India*. Penguin, 2010.
 Munshi, K.M., et al. *History and Culture of the Indian People*. 4th ed., vols X and XI, Bharatiya Vidya Bhavan, 2007.
 Shastri, K.S.R. *The Tamils: The People, Their History and Culture*. Vol. 2, Cosmo, 2002.

JOURNALS

The Indian Economic and Social History Review, Sage Publications.
 Journal of Indian History and Culture, CPR Foundation.

WEB RESOURCES

<http://www.colorado.edu/history/chester/ModIndPrimary.htm>
<http://www.gandhiserve.org/e/cwmng/cwmng.htm>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, book review and group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/IM34												
	Course Title: Indian National Movement												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	1	2	3	2	3	1	3	2	2
CO 2	3	3	2	1	2	2	3	2	2	1	3	3	3
CO 3	3	3	2	1	2	2	2	2	2	2	3	3	2
CO 4	2	2	3	1	2	2	3	3	3	1	3	2	3
CO 5	3	3	2	2	3	2	2	2	2	1	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF USA UP TO 1968

CODE: 23HS/MC/HU33

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To familiarize students with the evolution of the USA since pre-colonial times.
- To enable students to comprehend the factors that shaped American society.
- To help students to learn about the rise of Imperialism.
- To enable students to identify the role of USA in the World Wars.
- To help students understand the emergence of USA as a global power.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	list the historical personalities of USA.	K1
CO2	examine the events of American history.	K2
CO3	explain factors that made the USA a world power.	K3
CO4	evaluate issues connected with the history of USA.	K4
CO5	assess factors that resulted in the Cold War.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	General Introduction 1.1 Pre-Colonial America 1.2 The Thirteen Colonies 1.3 The American Revolutionary War	K1-K3 K4-K5 K1-K5	10	CO1-5
2	The Age of Abraham Lincoln 2.1 The Question of Slavery 2.2 Civil War 2.3 The Era of Reconstruction	K1-K3 K1-K4 K1-K5	10	CO1-5
3	The Gilded Age 3.1 Populist Movement 3.2 Growth of Industry 3.3 Rise of American Imperialism - The Progressive Era	K1-K4 K3-K5 K3-K5	10	CO1-5
4	America and the World Wars 4.1 Era of Prosperity and Frustration 4.2 The Great Depression - The New Deal 4.3 USA and World War II	K1-K3 K1-K4 K3-K5	12	CO1-5

UNIT	CONTENT	CL	HRS	CO
5	United States as a World power 5.1 Eisenhower – Korean Crisis 5.2 Kennedy- Cuba to Vietnam 5.3 The Civil Rights movement - Civil Rights Act	K1-K3 K3-K5 K1-K4	10	CO1-5

BOOKS FOR STUDY

Shama Mahmood, *The History of America From Pre -colonial Times to World War II*. Pearson, 2012
 Zinn, Howard. *A People's History of the United States*. HarperCollins, 2014.

BOOKS FOR REFERENCE

Grant, Susan-Mary. *A Concise History of the United States of America*. Cambridge University Press, 2012
 Schweikart, Larry, and Michael Patrick Allen. *A Patriot's History of the United States: From Columbus's Great Discovery to the War on Terror*. Penguin Random House, 2012
 Henretta, J.A., Broule, W.E.D. Broady and S. Ware. *America's History*. Vol. 1, Worth, 1993.
 Johnson, P. *A History of the American People*. HarperCollins, 1999.
 Clarfield, Gerard. *United States Diplomatic History*. Houghton Mifflin, 1992.

JOURNALS

American Educational History Journal
 The Journal of Intelligence History

WEB RESOURCES

<https://academic.oup.com/jah>
www.vlib.us/history/journals.html

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/HU33												
	Course Title: History of USA up to 1968												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	3	3	1	2	3	3	2	3	3	2	3
CO 2	3	3	3	3	2	3	3	3	3	3	3	3	3
CO 3	3	2	2	2	3	3	3	3	3	2	3	3	3
CO 4	2	3	3	3	3	3	3	3	3	3	3	2	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL AND CULTURAL HERITAGE OF CHENNAI CITY

CODE: 23HS/AC/CH35

CREDITS: 5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable the students to understand the rich heritage of Chennai city.
- To help the students to appreciate the rich socio-cultural history of Chennai city since 1639.
- To enable them to learn the evolution of the city of Chennai into a metropolitan city.
- To help students understand the genesis of the educational system in Chennai city.
- To facilitate an understanding of the growth of important institutions in the city.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	describe the rich history of the city.	K1
CO2	explain the growth of Chennai city over the ages.	K2
CO3	categorise the heritage of historical buildings.	K3
CO4	analyse the environmental history of Chennai.	K4
CO5	critically evaluate the historicity of the religious structure.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Search for Roots 1.1 Antiquity of the name ‘Madras’ 1.2 Portuguese, Dutch and English settlements 1.3 The Fort St. George and its Administrators	K1-K3 K4-K5 K1-K5	10	CO1-5
2	Growth and Development of Chennai 2.1 Growth and Development of Chennai Corporation 2.2 Genesis and Growth of Judicial Administration 2.3 Banking System and Transportation System since 1639	K1-K3 K1-K4 K1-K4	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
3	Growth of Educational institutions 3.1 Contribution of Christian Missionaries to Education 3.2 Heritage Buildings in Chennai 3.3 Religious Structures in Chennai	K1-K4 K3-K5 K3-K5	15	CO1-5
4	Evolution of Transport in Chennai 4.1 History and Growth of Railways in Chennai city 4.2 History and Growth of Madras Port Trust 4.3 Industrial Houses of Chennai	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Growth of Important Societies 5.1 Madras Mahajana Sabha 5.2 Madras Literary Society 5.3 Government Museum, Theosophical Society and Kalakshetra	K1-K3 K3-K5 K1-K4	10	CO1-5

**** Field Trip – Chennai City**

BOOKS FOR STUDY

Muthiah, S. *Madras Rediscovered*. East West Press, 1990.

Rajaraman, P. *Chennai through the Ages*. Poomphozhil, 1997.

S.Muthiah. *Madras, Chennai: A 400-year Record of the First City of Modern India, The Land, The People and Their Governors*. Palaniappa Brothers, 2008 & 2009.

BOOKS FOR REFERENCE

Maclean, C.D. *Manual of Administration of the Madras Presidency*. Asian Educational Services, 1990. 3 vols.

Muthiah, S. *Madras – The Gracious City*. Affiliated East West Press, 1990.

Sudhakar, G.J. *Aspects of Madras*. Loyola, 1993.

Venkatachellapathi, A.P. *Chennai Not Madras: Perspectives on the City*. Marg, 2006.

JOURNALS

Bi-annual Journal of Indian Art, Culture, Heritage and Tourism, Bharati Women's College, Chennai.

Journal of Humanities and Social Science, International Organization of Scientific Research.

WEB RESOURCES

www.intach.org

www.madrasmusings.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/AC/CH35												
	Course Title: SOCIAL AND CULTURAL HERITAGE OF CHENNAI CITY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	2	3	2	2	3	3	3
CO 2	3	3	3	2	3	2	3	3	3	2	2	3	3
CO 3	3	3	3	2	2	2	3	3	3	2	3	3	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	2	3	2	2	2	2	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23HS/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

CONTEMPORARY INDIA (1947-2014)

CODE:23HS/MC/CO44

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To help students understand the major developments in India since 1947.
- To help them assess the impact of various governments and policies on the Indian society and economy.
- To enable students to study the role of pan-Indian and regional movements in India since Independence.
- To help students appreciate the values central to the Indian polity, especially democracy and diversity.
- To enable students to prepare for competitive examinations.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	identify significant people and events in contemporary India.	K1
CO2	explain social, economic, and political changes in India.	K2
CO3	interpret trends in economy and society in the light of history since 1947.	K3
CO4	outline the history of and issues in regional political life.	K4
CO5	critically evaluate issues in contemporary India.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Post-Independence Consolidation and Reorganisation (1947-66) 1.1 Accession of Princely States and Linguistic Reorganization of States 1.2 Refugee and Language issues and Integration of Tribals 1.3 Foreign Policy, the Evolution of the Party System in India	K1-K3 K4-K5 K1-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Indira Gandhi to the UPA 2.1 Indira Gandhi as Prime Minister - the Janata Party Interregnum 2.2 Rajiv Gandhi - the National Front - Narasimha Rao 2.3 The United Front, NDA and UPA governments	K1-K3 K1-K4 K1-K4	10	CO1-5
3	Regional Studies 3.1 Politics in the states: Tamil Nadu, Andhra Pradesh 3.2 Kerala and West Bengal 3.3 Crises in Punjab, Jammu and Kashmir, and the North East	K1-K4 K3-K5 K3-K5	15	CO1-5
4	The Indian Economy 4.1 The Nehruvian Legacy and Trends after Nehru 4.2 The Reforms of 1991 and Recent Trends 4.3 Land Reforms: Zamindari Abolition, Tenancy Reforms and the Bhoodan Movement - The Green Revolution, White Revolution - Agrarian Struggles since Independence	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Social Issues 5.1 Communalism and regionalism 5.2 Caste and reservation 5.3 Achievements, problems and prospects today	K1-K3 K3-K5 K1-K4	10	CO1-5

**** Three Days Field Trip – Inter – state****

BOOKS FOR STUDY

Chandra B. et. al. *India Since Independence*. Penguin Books, 2008.
 Guha, R. *India After Gandhi*. Harper Perennial, 2008.

BOOKS FOR REFERENCE

Anand, V.K. *India Since Independence: Making Sense of Indian Politics*. Longman, 2010.
 Dreze, J. and Sen, A. *Indian Development: Selected Regional Perspectives*. Oxford University Press, 2007.
 Gandhi, R. *Modern South India*. Aleph, 2018.
 Corbridge, S. et. al. *India Today: Economy, Politics and Society*. Polity, 2013.
 Tharoor, S. *India Shastra: Reflections on the Nation in Our Time*. Aleph, 2015.

JOURNALS

Economic and Political Weekly

WEB RESOURCES

<http://blogs.wsj.com/indiarealtime>

<http://www.mea.gov.in/foreign-relations.htm>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, book review and group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/CO44												
	Course Title: Contemporary India (1947-2014)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	3	2	3	3	3
CO 2	3	2	2	2	2	1	2	3	3	2	2	3	3
CO 3	3	3	2	2	2	1	2	2	3	2	2	3	3
CO 4	3	3	3	2	2	1	2	2	3	3	2	3	3
CO 5	3	3	3	2	2	2	2	2	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF EUROPE (1648-1871)

CODE: 23HS/MC/HE44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students to study the developments in Europe after the French Revolution.
- To help students understand the origin of international diplomacy.
- To enable students to study about the revolutions in Europe.
- To understand the role of Europe in international politics.
- To understand the rise of nationalism in Europe.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	list out places, people and events connected to the history of Europe.	K1
CO2	explain the rise of totalitarianism in Europe.	K2
CO3	demonstrate understanding of the important events of Europe.	K3
CO4	compare the rise of nationalism in different parts of Europe.	K4
CO5	critically evaluate the forces that shaped European history.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Emergence of nation states 1.1 Peace of Westphalia 1.2 The French Revolution 1.3 Impact of the Revolution	K1-K2 K1-K4 K1-K5	15	CO1-5
2	Rise of Napoleon 2.1 Conquests of Napoleon 2.2 Napoleon as Emperor 2.3 Fall of Napoleon	K1-K4 K1-K4 K1-K5	15	CO1-5
3	Congress of Vienna and Concert of Europe 3.1 Restoration, Legitimacy, Balance of Power 3.2 Holy Alliance	K1-K3 K1-K5 K1-K4	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
	3.3 Quadruple Alliance - Role of Metternich			
4	Europe after Vienna 4.1 1830 Revolutions in Europe 4.2 1848 Revolutions in Europe 4.3 Napoleon III	K1-K3 K1-K4 K1-K5	10	CO1-5
5	Rise of Nationalism 5.1 Causes for the rise of Nationalism 5.2 Unification of Italy - Cavour, Mazzini, Garibaldi, Victor Immanuel 5.3 Unification of Germany - Otto Von Bismarck	K1-K4 K1-K5 K1-K5	10	CO1-5

BOOKS FOR STUDY

Pearson, Raymond. *The Longman Companion to European Nationalism, 1789-1920*.

Routledge, 2014.

Berger, Stefan. *A Companion to Nineteenth-Century Europe, 1789 – 1914 (Blackwell Companions to European History)*. Blackwell, 2009.

Brose, Eric Dorn. *German History 1789-1871: From the Holy Roman Empire to the Bismarckian Reich*. Berghahn Books, 2013.

BOOKS FOR REFERENCE

Simpson, William. *Europe 1783–1914*. Routledge, 2015.

Lee, Stephen, J. *Aspects of European History (1789-1980)*. Routledge, 2007.

Briggs, Asa, and Patricia Clavin. *Modern Europe, 1789 - Present*. Routledge, 2014.

Hobsbawm, Eric. *Age of Revolution 1789-1848*. Hachette, 2010.

Rapport, Michael. *Nineteenth-Century Europe*. Palgrave, 2005.

Robinson, James Harvey. *An Introduction to the History of Western Europe*. Nabu Press India, 2010.

JOURNALS

European History Quarterly, University of London.

Journal of European Studies, Sage.

WEB RESOURCES

<http://eudocs.lib.byu.edu> www.britannica.com

www.journals.cambridge.org

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/HE44												
	Course Title: History of Europe (1648-1871)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	1	2	2	2	3	3	1	3	2	3
CO 2	3	3	3	1	2	2	1	2	3	2	2	2	3
CO 3	3	3	3	1	2	2	1	2	3	2	3	2	3
CO 4	3	3	3	1	2	2	1	2	3	2	2	3	3
CO 5	3	3	3	2	2	1	2	2	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

GLOBAL CUISINES

CODE: 23HS/AC/GC45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose the students to the varied cuisines in the international arena.
- To create an awareness and interest among the students about the cuisines of the world.
- To help students learn the various tools and techniques of various cuisines.
- To enable students to have a better understanding of different types of services and menus.
- To enable the students to have an in-depth perspective of food and its health benefits.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	discuss the different types of cuisines.	K1, K2
CO2	distinguish combinations of cuisines and specific cuisines.	K3
CO3	categorise selected culinary styles and procedures.	K4
CO4	assess new techniques.	K5
CO5	develop new methods in international cuisines.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Tourism and Cuisines 1.1 Importance of Cuisines in Tourism - Gastronomy Tourism 1.2 Cuisines as a motivator for travel 1.3 Food Festivals around the World – Wild Food Festival – New Zealand, Onion Market – Switzerland, Bacon Festival – California, Dumpling Festival – Hong Kong, Pizza Fest – Italy, Vegetarian Festival – Thailand	K1-K3 K4-K5 K1-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Food Traditions around the World 2.1 American Cuisine - Types of Oil - Types of sauces – ingredients - Famous American dishes - Meal structure – Chinese Cooking – Ingredients - Meal structure 2.2 Mexican Cuisine - Nature of Mexican cuisine - Ingredients - Mexican cooking - Meal Structure of Mexican cuisine - Italian Cuisine – Ingredients – Meal structure – Kinds of Pastas – Different Italian dishes. 2.3 French Cuisine – Nature – Ingredients – Meal Structure – French brigade – Famous French Dishes – Indian Cuisine – Nature – Ingredients – Meal Structure - North Indian Thali – South Indian Virundhu Saapadu - Italian Cuisine- Nature – Ingredients – Meal Structure	K1-K3 K1-K6 K1-K4	15	CO1-5
3	Tools and Techniques 3.1 Tools for cooking – Tools for baking – Types of spoons and knives- Modern equipments – Culinary Styles – Presentation Techniques – International Standards 3.2 Techniques – Preparation Techniques - Cultural Influences – Indian Tradition - Ethnic procedures – Serving techniques – Buffets – Live counter Food 3.3 Grading procedures – Usage of preservatives – Classes of preservatives	K1-K4 K3-K5 K3-K5	15	CO1-5
4	Food Etiquette, Menus and Food Trails 4.1 Food Etiquette – Dinning Etiquette- Table Manners 4.2 Menus – Types of Menus – A la Carte – Buffet – Functional Menu – Cyclic Menu 4.3 Food Trails - Nature and Scope in Tourism promotion	K1-K3 K1-K4 K3-K6	10	CO1-5
5	Food as medicine 5.1 Tradition of Fasting – Food Restrictions - Health benefits 5.2 Spiritual Diets – Halaal Food – Science behind food 5.3 Festivals and Special food items	K1-K3 K3-K5 K1-K4	10	CO1-5

**** Workshop / Field Visit / Exhibition ****

BOOKS FOR STUDY

Heyman, Patricia. A. *International Cooking: A Culinary Journey*. Pearson, 2016.

Steier, Gabriela and Kiran K. Patel, editors. *International Food Law and Policy*. Switzerland, 2017.

Stevens, J. R. *International Instant Pot Cuisine: American, Chinese, French, Indian Italian and Mexican Recipes*. 2017.

BOOKS FOR REFERENCE

Kong, Lily, and Vineeta Sinha, editors. *Food, Foodways and Foodscapes: Culture, Community and Consumption in Post Colonial Singapore*. World Scientific, 2015.

Farrer, James, editor. *The Globalisation of Asian Cuisines, Transnational Networks and Culinary Contact Zones*. Palgrave Macmillan, 2015.

Singh, Dueep J., and John Davidson. *Granma's Guide to Home Baking: Tips and techniques for healthy home baking*. JD–Biz Publishing, 2015.

Boulud, Daniel. *Braise: A Journey Through International Cuisine*. HarperCollins, 2013.

Bali, Parvinder S. *International Cuisine and Food Production Management*. Oxford, 2012.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50	9	13

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 question	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 question	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/AC/GC45												
	Course Title: Global Cuisines												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	2	2	1	1	2	2	1	3	2	1
CO 2	2	2	3	1	3	2	1	3	2	1	3	3	1
CO 3	2	2	3	1	3	2	1	3	1	1	3	2	1
CO 4	2	3	3	1	3	2	1	2	2	1	2	2	1
CO 5	2	3	2	1	3	2	1	2	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF EUROPE (1871-1945)

CODE: 23HS/MC/EU54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students evaluate the making of the modern world through the latter half of the 19th and first half of the 20th century.
- To help students understand the circumstances that led to the World Wars.
- To enable students to comprehend the significant events that shaped European history.
- To analyse the rise of totalitarianism.
- To comprehend the trends leading to political change in Europe.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	list out places, people and events connected to the history of Europe.	K1
CO2	explain the main events of the period.	K2
CO3	analyse the important events of 19 th and 20 th century Europe.	K3
CO4	critically analyse the rise of totalitarianism in Europe.	K4
CO5	evaluate the transition of Europe caused by revolutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Europe on the Eve of World War I 1.1 Treaty of Berlin 1.2 Balkan Wars 1.3 Year of Armed Peace	K1-K3 K4-K5 K1-K5	15	CO1-5
2	World War I 2.1 Causes - Entry of US into World War I 2.2 Results - Paris Peace Conference 2.3 Treaty of Versailles	K1-K3 K1-K4 K1-K4	15	CO1-5
3	Europe between the Wars 3.1 The Russian Revolution 3.2 League of Nations 3.3 Inter War Alliances	K1-K4 K3-K5 K3-K5	10	CO1-5

UNIT	CONTENT	CL	HRS	CO
4	Rise of Totalitarianism 4.1 Rise of Hitler - Germany - Holocaust 4.2 Rise of Mussolini - Italy 4.3 Stalin-Russia	K1-K3 K1-K4 K3-K5	10	CO1-5
5	World War II 5.1 Causes and Course of the War 5.2 Entry of US in World War II 5.3 Ravages of War	K1-K3 K3-K5 K1-K5	15	CO1-5

BOOKS FOR STUDY

Ghosh, Pradeep Kumar, editor. *History of Europe (1789-1939)*. Pearson, 2012.

Brose, Eric Dorn. *A History of the Great War: World War One and the International Crisis of the Early Twentieth Century*. Oxford University Press, 2010

BOOKS FOR REFERENCE

Lee, Stephen J. *Aspects of European History (1789-1980)*. Routledge, 2007.

Briggs, Asa, and Patricia Clavin. *Modern Europe: 1789-Present*. Routledge, 2014.

Hobsbawm, Eric. *The Age of Capital (1848-1875)*. Hachette, 2010.

Hobsbawm, Eric. *The Age of the Empire (1875-1914)*. Hachette, 2010.

Hirst, John. *The Shortest History of Europe*. Old Street, 2012.

Jenkins, Simon. *A Short History of Europe*. Viking, 2018.

JOURNALS

International Society for First World War Studies.

Contemporary European History - Cambridge University Press.

WEB RESOURCES

<http://eudocs.lib.byu.edu>

www.britannica.com

www.journals.cambridge.org

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/EU54												
	Course Title: History of Europe (1871-1945)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	3	3	3	3	3	3	2	3
CO 2	3	3	3	3	3	3	2	2	3	3	2	3	3
CO 3	2	2	3	2	3	2	3	3	2	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	2	3	3	3
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF WORLD CIVILISATIONS

CODE: 23HS/MC/WC54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students gain insight into the cultures of various civilisations.
- To enable the students to understand the evolution of various civilizations.
- To help students comprehend the significant development that shaped world history.
- To enable the students to learn about the Reformation and Renaissance.
- To increase knowledge of the major transitions in the history of the modern world.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	describe events connected with the evolution of civilisations.	K1
CO2	compare the growth of the civilisations.	K2
CO3	illustrate the rise of and development of civilisations.	K3
CO4	analyse the turning points of ancient and classical civilisations.	K4
CO5	assess information on the subject.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition of Civilisation 1.2 Growth of Civilizations 1.3 Pre-Historic - Palaeolithic, Mesolithic and Neolithic Cultures	K1-K3 K4-K5 K1-K5	10	CO1-5
2	Ancient Civilisations 2.1 Mesopotamia and Persia 2.2 Egyptian Civilisation 2.3 Chinese Civilisation	K1-K3 K1-K4 K1-K4	15	CO1-5
3	Classical Civilizations 3.1 Greek and Roman 3.2 American Civilisation – Mayan, Aztec, Inca 3.3 Japanese Civilisation	K1-K4 K3-K5 K3-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
4	Feudalism and Reformation 4.1 Renaissance – Causes and Results 4.2 Geographical and Scientific Discoveries - Agrarian and Industrial Revolutions 4.3 Rise of Colonialism - Feudalism - Meaning and Impact	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Transition to Modern Age 5.1 Rise and spread of Christianity – The Papacy 5.2 Reformation 5.3 Counter Reformation	K1-K3 K3-K5 K1-K4	10	CO1-5

**** Field Visit – Sharma Institute of Heritage Management**

BOOKS FOR STUDY

Wells, H.G. *The Outline of History: Being a Plain History of Life and Mankind*. Deutschland: CreateSpace Independent Publishing Platform, 2017.

Davis, Adam Hart. *History: From the Dawn of Civilization to the Present Day*. DK Publishing, 2015

BOOKS FOR REFERENCE

Randal, Puwels, and Philip Adler. *World Civilisations*. Cengage Learning, 2011.

Swaine, J. E. *A History of World Civilizations*. S. Chand, 2000.

Freeman, Charles. *Egypt, Greece and Rome*. Oxford University, 2004.

Paine, Lincoln. *The Sea and Civilization: A Maritime History of the World*. Vintage, 2015.

Wildwood, Gretchen, and Matthews Rupert. *Ancient Mesopotamian Civilization*. Rosen, 2009.

JOURNALS

Comparative Civilizations Review.

Journal of Ancient Civilizations (Annual), The Institute for the History of Ancient Civilizations, Northeast Normal University, China.

The Ancient World (Bi-Annual), Judith M. Remer Ares Publishers.

WEB RESOURCES

www.historymuseum.ca

www.ancientgreece.com

www.ushistory.org

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/WC54												
	Course Title: History of World Civilisations												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	2	1	1	2	2	3	2	1	2	2	2
CO 2	3	3	2	1	2	1	2	2	3	2	3	3	2
CO 3	2	3	2	1	2	2	3	3	2	1	2	2	2
CO 4	3	3	3	2	2	2	1	2	3	2	3	3	2
CO 5	2	2	3	3	1	2	2	3	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

INTELLECTUAL HISTORY

CODE: 23HS/MC/IL54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an understanding of different ideologies.
- To help students assess their impact in the reforms of India.
- To help students understand the western ideologies which impacted modern history.
- To enable students to imbibe the values propounded by important thinkers.
- To develop a critical understanding of social reformation and revivalism.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	identify the significant intellectual influences in Indian history.	K1
CO2	explain the teachings of various thinkers.	K2
CO3	interpret the political impact of different ideologies.	K3
CO4	compare and contrast the philosophies of various thinkers.	K4
CO5	evaluate social, political, and western ideologies.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Spiritual Thinkers 1.1 Swami Dayanand Saraswathi, Ramakrishna Paramahansa, 1.2 St. Ramalinga Adigalar, Veeramamunivar 1.3 Swami Vivekananda, Aurobindho Ghosh	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Social Thinkers 2.1 Raja Ram Mohan Roy, Rabindranath Tagore 2.2 Sir Syed Ahmed Khan, Jyothibhai Phule 2.3 Sri Narayana Guru, Dr. B R Ambedkar	K1-K3 K1-K4 K1-K4	15	CO1-5
3	Modern / Political Thinkers 3.1 Dadabhai Naoroji, Gopal Krishna Ghokle, Bal Gangadhar Tilak 3.2 M N Roy, J P Narayan 3.3 M K Gandhi, Jawaharlal Nehru	K1-K4 K3-K5 K3-K5	10	CO1-5

UNIT	CONTENT	CL	HRS	CO
4	Political Thinkers – Regional 4.1 Subramania Bharathi, V O Chidambaram Pillai 4.2 C N Annadurai, E V Ramasamy Periyar 4.3 S Radhakrishnan, C Rajagopalachari	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Western Political Thinkers 5.1 Immanuel Kant 5.2 Jean Jacques Rousseau, John Locke and Thomas Hobbes 5.3 Karl Marx	K1-K5 K3-K5 K1-K4	10	CO1-5

BOOKS FOR STUDY

Chandra, Bipan. *History of Modern India*. Orient Blackswan, 2009.

Das, H.H., and P.S.N. Patra. *Indian Political Traditions*. Sterling, 1995.

BOOKS FOR REFERENCE

Mukhi, H.R.. *Modern Indian Political Thought*. SBD Publishers, 1997.

Naidu, B.N. *Intellectual History of Colonial India*. Rawat Publications, 1996.

Prasad, Bimal. *Gandhi, Nehru and J.P : Studies in leadership*. Chanakya Publications, New Delhi, 1985.

Jha, Shefali. *Western Political Thought from Plato to Marx*. Pearson, 2009.

Mukherjee, Subrata, and Susheela Ramaswamy. *A History of Political Thought : Plato to Marx*. Second Learning, 2011.

JOURNALS

Journal of the History of Ideas, University of Pennsylvania Press.

WEB RESOURCES

<https://www.intellectualhistory.net>

<https://archive.org/details/intellectualhistoryofindia>

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/IL54												
	Course Title: Intellectual History												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	1	2	3	3	2	3	2	2	2
CO 2	3	3	3	1	2	2	3	3	3	3	2	2	3
CO 3	2	2	2	2	3	1	2	3	3	2	1	2	3
CO 4	2	2	2	1	3	2	3	2	3	2	2	3	3
CO 5	2	3	3	1	2	1	2	2	2	1	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

GENDER STUDIES

CODE: 23HS/MC/GS53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To help students become familiar with the various concepts of gender studies.
- To make students sensitive to sex and gender stereotyping.
- To help students comprehend the issues and challenges faced by women and the LGBTQ community.
- To increase understanding of the concept of gender justice.
- To enable students to comprehend the underlying philosophy of gender studies and its impacts.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	describe the scope of gender studies.	K1
CO2	explain the social construction of gender.	K2
CO3	evaluate the impact of feminist ideology on society.	K3
CO4	analyse contemporary gender issues.	K4
CO5	critically engage with issues of culture, identity and sexuality.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Gender Studies 1.1 Meaning – purpose and basic concepts of Gender Studies – Objectives, scope and relevance – Emergence and growth 1.2 Gender Studies as an interdisciplinary subject 1.3 Gender Sensitisation - gender mainstreaming- gender budgeting	K1-K3 K4-K5 K1-K5	10	1-5
2	Underlying Philosophy of Gender Studies 2.1 Basic concepts - Sex, Gender, Gender roles and Attributes, Sexuality, Masculinity and Femininity, Gender Bias, Gender Stereotypes and their impact 2.2 Waves of Feminism - Liberal, Radical, Marxist, Socialist, Eco-feminist, Dalit and Postmodernist approaches	K1-K3 K1-K4 K1-K4	10	1-5

UNIT	CONTENT	CL	HRS	CO
	2.3 LGBTQ culture in India			
3	Gender, Environment, Education and Livelihood 3.1 Understanding Education as a Right – Right to Education – Constitutional Rights of Women 3.2 UN Initiatives – SDGs on gender equality and targets 3.3 Gender division - discrimination at work – women’s participation in politics, voting rights, Reservation for women in Parliament	K1-K4 K3-K5 K3-K5	10	1-5
4	Gender and Health 4.1 Critical issues in mental health and well being 4.2 Women and World Medical Association (WMA) - WHO 4.3 Sexual and Reproductive Health, Rights and Justice	K1-K5 K1-K4 K3-K5	10	1-5
5	Gender and Law 5.1 Constitution and Gender Equality 5.2 International Women’s Decade - CEDAW - UN Declaration on the Elimination of Violence against Women - UN Women (2010) 5.3 Important Legislation relating to Women - Protection of Women From Domestic Violence Act 2005, Medical Termination of Pregnancy Act 1971, Sexual Harassment at the Workplace (Prevention, Prohibition, Redressal) Act and Rules, 2013, LGBTQ Rights - Section 377 and SC judgements, Women’s Right to Property	K1-K3 K3-K5 K1-K4	12	1-5

BOOKS FOR STUDY

Devendra, K. *Status and Position of Women in India*. Vikas, 1986.
 Pratima, A. *Women’s Movement in India*. Vikas, 2001

BOOKS FOR REFERENCE

Cornell, R.W. *Gender*. Polity Press, 1995.
 Oakley, A. *Sex, Gender and Society*. Temple Smith, 1989.
 Banks, Olive. *Faces of Feminism - A Study of Feminism as a Social Movement*. London, 2008.

JOURNALS

Indian Journal of Gender Studies, Sage Publications.
 Women's Studies International Forum, Elsevier.
 Indian Journal of Gender studies, Sage Publications.

WEB RESOURCES

www.theindianwomansite.blogspot.com

www.womensweb.in

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, book review and group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/GS53												
	Course Title: Gender Studies												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	2	3	3	1	2	3	3
CO 2	3	3	2	2	3	3	2	2	3	2	1	2	2
CO 3	3	3	3	1	2	3	2	3	3	3	2	3	2
CO 4	3	3	3	2	3	3	2	3	3	2	3	3	3
CO 5	3	3	3	2	3	2	3	3	3	1	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Interdisciplinary Core Course Offered by the Departments of History and Commerce to
B.A. History and Tourism and B.Com. General Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

TOURISM MARKETING

CODE: 23ID/IC/TM55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enable students to understand the principles of marketing.
- To help them to comprehend promotion strategies and pricing.
- To make students aware of the factors that affect the tourist consumer.
- To help students to understand the structure and organisation of the tourism sector.
- To enable students to comprehend the complexities of travel marketing.

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

COs	DESCRIPTION	CL
CO1	define concepts connected to marketing and tourism.	K1
CO2	demonstrate understanding of the principles of marketing.	K2
CO3	apply the principles of marketing to the tourism industry.	K3
CO4	analyse the factors that affect the tourism industry.	K4
CO5	evaluate tourism attractions and destinations.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Basic Principles of Tourism Marketing 1.1 Tourism Marketing - A Perception - Purpose and Constraints of Tourism Marketing 1.2 Service Characteristics of Tourism Marketing 1.3 Role and Functions of Tourism Managers	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Marketing Mix for Tourism 2.1 Marketing Mix - variables - 7 P's 2.2 Tourism Promotion - Introduction, Need, and Kinds of Promotion 2.3 Distribution Strategy - Channel Design - Functions and Types of Channel Members	K1-K3 K1-K4 K1-K4	15	CO1-5
3	Tourist Consumer Behaviour 3.1 Characteristics and Decision-Making Process 3.2 Typologies 3.3 Factors Affecting Consumer Behaviour	K1-K4 K3-K5 K3-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
4	Tourism Marketing Strategies 4.1 Destination Branding 4.2 Brand Positioning 4.3 Choosing a Destination - Role of DMO	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Tourism Market Segmentation and Pricing 5.1 Tourism Market Segmentation - Objectives, Introduction, Levels of Segmentation and Patterns 5.2 Pricing - Introduction - Factors Affecting Pricing 5.3 Methods and Strategies of Pricing	K1-K3 K3-K5 K1-K4	18	CO1-5

BOOKS FOR STUDY

Kotler, Philip; John Bowen, and James Makens. *Marketing for Hospitality and Tourism*. Pearson, 2014.

Dasgupta, Devashish. *Tourism Marketing*. Pearson, 2011.

Chaudhary, Manjula. *Tourism Marketing*. Oxford Higher Education. 2010.

Bhatia, A.K. *Tourism Management and Marketing*. Sterling Publishers, 1997.

Holloway, J. C. and R.Y. Plant. *Marketing for Tourism*. Pitman Publishing, 1998.

Sinha, P.C. *Tourism Management*. Anmol Publishers, 1997.

Buhalis, D., and C. Costa C., editors. *Tourism Management Dynamics*. Heinemann, 2006.

BOOKS FOR REFERENCE

Collman, M.M. *Tourism Marketing*. Van Nostrand Reinhold, 1989.

Batra, G.S. and R.C. Dangwal. *Tourism Promotion and Development: New Advances*. Deep and Deep, 2007.

Buhalis, D. and C. Costa. *Tourism Business Frontiers - Consumers, Products and Industry*. Heinemann, 2006.

Telter, David J., and R. Sharpley. *Tourism and Development in the Developing World*. Routledge, 2001.

JOURNALS

International Journal of Tourism Research, Wiley.

Tourism Management, Elsevier

Journal of Hospitality and Tourism, Sage Publication.

WEB RESOURCES

www.tourismmarketingconcepts.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/TM55												
	Course Title: Tourism Marketing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	2	3	3	2	1	3	2	3	2	2
CO 2	2	2	3	2	3	3	2	1	3	3	2	2	2
CO 3	2	2	3	2	3	2	2	1	3	2	2	2	2
CO 4	2	2	3	2	3	3	2	1	2	2	2	2	3
CO 5	2	2	3	2	3	2	3	2	3	2	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNATIONAL RELATIONS SINCE 1945

CODE: 23HS/MC/IR64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To develop among students an understanding of the theories and concepts of International Relations.
- To help students understand the role of various international actors in contemporary world issues.
- To help students understand the modern international system from a historical perspective.
- To equip students with the tools to understand and analyse issues in international politics.
- To provide students a comprehensive overview of the major political developments since the Second World War.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	define the basic concepts of International Relations.	K1
CO2	explain the roles of various international institutions.	K2
CO3	apply the theories of international relations to understand issues in international politics.	K3
CO4	compare and analytically understand the stands of various countries in specific issues.	K4
CO5	evaluate the impact of trends in International Relations.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to International Relations 1.1 Definition and Scope of International Relations 1.2 Concepts and Theories of IR: Classical Theories 1.3 Critical and Contemporary Theories	K1-K3 K4-K5 K1-K4	15	CO1-5
2	Post Second World War Developments 2.1 United Nations – functions and relevance 2.2 Cold War and collective security organizations 2.3 Disintegration of the USSR and US ascendancy	K1-K3 K1-K4 K1-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
3	International Institutions and Initiatives 3.1 Commonwealth, ASEAN, EU, AU, NAM, GATT and WTO 3.2 G7 and G20 3.3 Nuclear proliferation and disarmament – SALT I & II, NPT, CTBT, START I & II	K1-K4 K3-K5 K3-K5	10	CO1-5
4	North-South Gap 4.1 Decolonization; North-South Divide, Third World 4.2 The New International Economic Order 4.3 Neo-colonialism in the Global South, factors constraining development	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Contemporary Concerns 5.1 Globalisation 5.2 Terrorism 5.3 Environment	K1-K3 K3-K5 K1-K4	10	CO1-5

BOOKS FOR STUDY

Pevehouse, Jon C., and Joshua S. Goldstein. *International Relations*. 12th ed., Pearson, 2013.
 Lowe, Norman. *Mastering Modern World History*. 6th ed., Bloomsbury Academic, 2023

BOOKS FOR REFERENCE

Ghosh, Peu. *International Relations*. 5th ed., PHI Learning, 2020
 Baylis, John, et al., editors. *The Globalization of World Politics*. 9th ed., Oxford University Press, 2023
 Burchill, Scott, et al. *Theories of International Relations*. 5th ed., Palgrave Macmillan, 2013
 Morgenthau, Hans J., and Kenneth W. Thompson. *Politics Among Nations: The Struggle for Power and Peace*. 6th ed., Knopf, 1985
 Catherine R. Schenk, *International Economic Relations Since 1945*. Routledge, 2011

JOURNALS

Foreign Policy, FP Group, Washington DC.

WEB RESOURCES

<https://world101.cfr.org/>
<http://www.un.org/en/>

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/IR64												
	Course Title: International Relations Since 1945												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	2	3	2	2	3	3
CO 2	3	3	3	3	3	2	3	3	3	3	2	3	3
CO 3	3	3	3	2	2	2	3	3	3	2	2	3	3
CO 4	3	3	2	3	2	3	3	3	3	3	2	3	3
CO 5	3	2	2	2	2	2	2	3	3	2	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

INDIAN CONSTITUTION

CODE: 23HS/MC/IC64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the features of the Indian Constitution.
- To enable students to understand the structure of the government in India.
- To help the students learn their democratic rights and duties.
- To help the students to have a better understanding of the judicial and executive set up in India.
- To enable students to compete in the All-India Competitive Exams.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	list out the important features of the Indian Constitution.	K1
CO2	examine the nature of the Indian Constitution.	K2
CO3	analyse and understand the Fundamental Rights and Duties.	K3
CO4	evaluate the impact of the constitutional provisions.	K4
CO5	support the civil rights of citizens.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Nature of the Indian Constitution 1.1 Making of the Indian Constitution and its Philosophical Foundation 1.2 Salient Features of the Indian Constitution 1.3 Preamble - Citizenship	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Parts III and IV 2.1 Fundamental Rights 2.2 Fundamental Duties 2.3 Directive Principles of State Policy	K1-K3 K1-K4 K1-K4	10	CO1-5
3	The Central Government (Part V) 3.1 The Union Executive: President, Prime Minister and the Council of Ministers 3.2 The Parliament: Powers and Function of the Lok Sabha and Rajya Sabha Parliamentary Committees, Functioning of the Parliamentary System in India	K1-K4 K3-K5 K3-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
	3.3 The Judiciary: The Supreme Court, Judicial Review			
4	The State Government (Part VI) 4.1 Governor - Chief Minister and the Council of Ministers 4.2 State Legislature - High Court 4.3 Centre - State Relations	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Other Provisions 5.1 Administration of Union Territories and Acquired Territories 5.2 Local Self-Government: Panchayats, Municipalities, and Corporations 5.3 Elections - Amendments to the Indian Constitution – 42 nd and 44 th amendments	K1-K3 K3-K5 K1-K4	10	CO1-5

BOOKS FOR STUDY

Pylee, M.V. *India's Constitution*. New Delhi, 2017.

Basu, D.D. *Introduction to the Constitution of India*. Educational Printed, 2022.

BOOKS FOR REFERENCE

Jain, M.P. *Indian Constitutional Law*. Lexis Nexis, 2018.

Shukla, Mahendra Pal, and V.N. Shukla. *Constitution of India*. Eastern Book Company, 2017.

Thiruvengadam, Arun K. *The Constitution of India: A Contextual Analysis*. Hart, 2017.

Choudhry, Sujit, Madhav Khosla, and Pratap Bhanu Mehta. *The Oxford Handbook of the Indian Constitution*. Oxford University Press, 2016.

Ananth, V. Krishna. *The Indian Constitution and Social Revolution: Right to Property since Independence*. Sage Publications, 2015.

JOURNALS

Economic and Political Weekly, Sameeksha Trust.

Madras Law Journal, LexisNexis.

WEB RESOURCES

<http://indiacode.nic.in/coiweb/welcome.html>

<http://supremecourtindia.nic.in> <http://hcmadras.tn.nic.in>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/IC64												
	Course Title: Indian Constitution												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	3	3	2	1	2	2	2
CO 2	3	2	2	1	1	2	2	2	2	2	1	3	3
CO 3	3	3	2	1	1	2	2	2	2	1	2	2	3
CO 4	2	2	2	1	2	2	2	2	2	2	1	2	2
CO 5	3	3	2	2	1	1	2	2	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

ART AND ARCHITECTURE IN INDIA

CODE: 23HS/MC/AT64

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the origin and growth of Indian art and architecture.
- To help them understand the styles of Indian art and architecture.
- To help students acquire knowledge in the field of heritage tourism and archaeotourism.
- To highlight to the students the significance of monuments of architectural value.
- To enable students to appreciate the paintings of India.

COURSE LEARNING OUTCOME

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	describe the evolution of art and architecture in India.	K1
CO2	explain the difference between various architectural styles.	K2
CO3	apply their knowledge in promoting and preserving the art and architecture of our country.	K3
CO4	analyse the significant features of Indian art and architecture.	K4
CO5	support further learning in art history.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Indian Art and Architecture 1.1 Indus Art and Architecture 1.2 Buddhist – Mauryan and Sunga 1.3 Gandhara and Mathura school	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Temple Architecture – Important Tourist Sites 2.1 Styles of Temple Architecture – Nagara, Dravida and Vesara 2.2 Temples of North India - Guptas, Chandellas, Solankis and Dilwara Temples 2.3 Temples of South India – Pallava, Chola, Pandya, Rastrakutas, Hoysalas, Chalukyas and Vijayanagar	(15 Hours) K1-K3 K1-K4 K1-K4	15	CO1-5
3	Medieval Architecture – Important Tourist Sites 3.1 Sultanate 3.2 Mughal 3.3 Rajputs	K1-K4 K3-K5 K3-K5	10	CO1-5

UNIT	CONTENT	CL	HRS	CO
4	Modern Architecture – Important Tourist Sites 4.1 Danish – Tranquebar - Portuguese – Goa 4.2 Dutch - Pulicat - French – Pondicherry 4.3 British – Indo-Saracenic	K1-K3 K1-K4 K3-K5	13	CO1-5
5	Paintings in India 5.1 Mural Paintings 5.2 Miniature Paintings 5.3 Modern Paintings	K1-K5 K3-K5 K1-K4	12	CO1-5

**** Field Trip 5-7 Days****

BOOKS FOR STUDY

Brown, Percy. *Indian Architecture*. D.B. Taraporevala, 2003.

Tomory, Edith. *A History of Fine Arts in India and the West*. Orient BlackSwan, 2004.

BOOKS FOR REFERENCE

Anantharaman, Ambujam. *Temples of South India*. East West Books, 2006.

Krishna, Deva. *Temples of North India*. National Book Trust, 1997.

Madhavan, Chitra. *Vishnu Temples of South India: Tamil Nadu*. Alpha Land Books, 2007.

Kumar, S.A. Raj. *Essays on Indian Architecture*. Discovery, 2003.

Reddy, V.V. Subba. *Temples of South India*. Gyan, 2009.

JOURNALS

Indian Archaeology - A Review, Archaeological Survey of India.

Journals on Paintings

Gandharan Studies, Institute of Archaeology and Social Anthropology, University of Peshawar.

Journal of the Royal Asiatic Society, Cambridge University Press.

WEB RESOURCES

<http://indiaheritage.org/> www.asi.nic.in

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:**Total Marks: 50**

Seminars – Quiz - Open book tests - Group discussion - Assignments

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/AT64												
	Course Title: Art and Architecture in India												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	1	2	3	1	2	3	2
CO 2	3	3	3	1	1	2	1	2	3	2	3	3	3
CO 3	3	3	2	2	1	1	2	2	2	2	3	3	3
CO 4	2	2	2	1	2	2	3	2	2	2	2	3	3
CO 5	3	3	3	1	3	2	2	2	2	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF CHINA AND JAPAN (1839-2003)

CODE: 23HS/MC/CJ63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To explore key events, figures and movements in China and Japan from the mid-19th century to the end of the 20th century
- To help students examine issues of imperialism and foreign intervention in China and Japan
- To enable them to analyse the political ideologies and nation-building efforts of the two countries
- To help students understand how historical events have shaped their politics and culture
- To facilitate an understanding of India's relations with China and Japan.

COURSE LEARNING OUTCOMES

On successful completion of this course, the student will be able to

COs	DESCRIPTION	CL
CO1	list out places and personalities connected to the history of China and Japan.	K1
CO2	discuss issues pertaining to Chinese and Japanese politics and society.	K2
CO3	apply the knowledge of the history of China and Japan and understand its impact on contemporary politics.	K3
CO4	analyse understand Japan's path to militarism and colonial power.	K4
CO5	evaluate India's relations with China and Japan.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Western Imperialism in China 1.1 Introduction to China: Society, Polity and Economy 1.2 Opium Wars (1839-1860) - Taiping Rebellion (1860-1864) 1.3 Open Door Policy - Boxer Rebellion (1899-1901)	K1-K3 K4-K5 K1-K5	10	CO1-5
2	The Nineteenth Century in Japan 2.1 Introduction to Japan: Society, Polity and Economy in the 1800s	K1-K3 K1-K4 K1-K4	10	CO1-5

UNIT	CONTENT	CL	HRS	CO
	2.2 Tokugawa Shogunate - Decline of Feudalism 2.3 Meiji Restoration			
3	Transition to Modernisation 3.1 Japan: Government and Party relations- Constitutionalism in Japan- Rise of Militarism 3.2 China: Chinese Revolution of 1911 - Yuan Shih Kai - warlordism 3.3 Dr. Sun Yat Sen and Kuomintang	K1-K4 K3-K5 K3-K5	10	CO1-5
4	China and Japan: 1910s to 1940s 4.1 Japan in I World War - The Washington Conference - Manchurian crisis (1931-33) and Sino-Japanese war, Japan and China in the Second World War 4.2 Mao Tse Tung and the Rise of Red China 4.3 Chinese Civil War	K1-K3 K1-K4 K3-K5	12	CO1-5
5	Japan and China after World War II (1945 to 2003) 5.1 Occupied Japan - Reform, Recovery, Negotiations - Peace Treaty Negotiation and Settlement - SCAP and the Constitution of 1947- Demilitarisation and Democratisation – Social, Economic and Political transformation 5.2 China: Mao, Deng Xiaoping, and Jiang Zemin – Social, Economic and Political transformation 5.3 India's Relations with China and Japan	K1-K3 K3-K5 K1-K4	10	CO1-5

BOOKS FOR STUDY

Rao, B.V. *History of Asia from Early Times to 2000 A.D.* Sterling, 2001.

Vinacke, H.M. *History of the Far East in Modern Times.* George Allen and Unwin, 1971.

BOOKS FOR REFERENCE

Chesneaux, J.B.M., and M.C. Bergere. *China from Opium Wars to 1911.* Harvester, 1976.

Clyde, P.H., and B.F. Beers. *The Far East 1830-1975.* Prentice Hall of India, 1988.

Jain, R.K. *History of China and Japan 1949-80.* Radiant, 1982.

Roy, S.L. *A Short History of Far East in Modern Times.* Charu, 1980.

Taylor, M., and G.E. Taylor. *The Far East in the Modern World.* Dryden, 1964.

JOURNALS

Journal of Asian Studies, Cambridge University Press.

WEB RESOURCES

Chinese History - Mr. Dowling.com (mrdowling.com)

Japanese History | Asia Society

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
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C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/MC/CJ63												
	Course Title: History of China and Japan (1839-2003)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	3	3	1	1	2	2
CO 2	3	2	2	2	2	2	2	3	3	3	1	2	2
CO 3	3	3	3	2	2	2	2	3	3	1	1	3	3
CO 4	3	2	2	2	2	2	2	3	3	1	1	2	2
CO 5	3	2	3	2	2	2	3	3	3	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

INDIAN HERITAGE AND TOURISM

CODE: 23HS/ME/IH45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students identify the types of India's heritage.
- To facilitate a better understanding of preservation and conservation techniques.
- To provide students with a comprehensive over view of Indian culture and heritage.
- To understand the various aspects of Heritage Management.
- To enable students to understand the importance of heritage in tourism.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	describe the heritage of our country.	K1
CO2	explain the various methods of preservation and conservation of our heritage.	K2
CO3	outline the intangible and tangible heritage of the country.	K3
CO4	differentiate the various types of heritage.	K4
CO5	assess the working of various organizations in heritage conservation.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Conceptual Framework 1.1 Heritage, Culture – Meaning and Definitions 1.2 Evolution of Indian Culture through the ages 1.3 Heritage, Culture and Tourism - The Relationship	K1-K3 K4-K5 K1-K5	10	CO1-5
2	India's Natural Heritage 2.1 National Parks and Natural Reserves in India 2.2 Hill Stations, Forest Reserves 2.3 Beaches and Islands - Beaches in Goa, Kerala, Odisha, Mamallapuram	K1-K3 K1-K4 K1-K4	12	CO1-5
3	India's Intangible Heritage 3.1 Music and Dance in India- Classical and Folk-Puppetry 3.2 Indian Cuisine 3.3 Traditional Games, Fairs and Festivals of India	K1-K4 K3-K5 K3-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
4	India's Tangible Heritage 4.1 Religious, Secular Monuments and UNESCO sites in India 4.2 Handicrafts and Handlooms 4.3 Museums and Art Galleries of India	K1-K3 K1-K4 K3-K5	13	CO1-5
5	Tourism and Heritage Management 5.1 Role of Government in Promoting Tourism-Five Year Plans, ITDC, TTDC and Important Committees formed to implement Tourism Policies 5.2 National and International Heritage Organisation- UNESCO, ASI, INTACH, ICOMOS, NTO 5.3 Criteria for selection of Heritage Sites - Preservation and Conservation of Heritage Sites.	K1-K3 K3-K5 K1-K4	15	CO1-5

BOOKS FOR STUDY

Acharya, R. *Tourism and Cultural Heritage of India*. Rosa, 1986.
 Chawla, Romila. *Cultural Tourism and Development*. Sonali, 2004

BOOKS FOR REFERENCE

Bhatia, A.K. *Tourism Development: Principles and Practices*. Sterling, 2003.
 Singh, L K. *Indian Cultural Heritage Perspective for Tourism*. Isha Books, 2008.
 Narayan, Shovana. *Sterling Book of Indian Classical Dance*. Sterling, 2011.
 Ranjan, Aditi, and M.P. Ranjan. *Handmade in India- A Geographical encyclopaedia of Indian Handicrafts*. Abbeville Press, 2009

JOURNALS

International Journal of Tourism Research, Wiley.
 Bi-annual Journal of Indian Art, Culture, Heritage and Tourism, Bharati Women's College, Chennai.

WEB RESOURCES

<http://indiaheritage.org/>
<http://whc.unesco.org/>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/ME/IH45												
	Course Title: Indian Heritage and Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	3	2	3	2	3	3	2
CO 2	3	3	2	1	2	2	2	3	3	1	2	2	2
CO 3	3	3	2	2	3	2	2	2	2	1	3	3	2
CO 4	2	2	2	1	2	3	3	3	3	2	3	3	2
CO 5	3	2	2	2	3	3	2	3	3	1	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

INDIA AND HER NEIGHBOURS (1947-2004)

CODE: 23HS/ME/IN45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students learn about historical events and policies shaping India's foreign policy.
- To enable them to analyse areas of cooperation and conflict.
- To facilitate an understanding of India's relations with neighbours.
- To increase knowledge about India's role in SAARC and other regional organisations.
- To help them analyse and evaluate India's neighbourhood policies.

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the evolution of India's foreign policy.	K1
CO2	explain the major issues facing inter-state relations in the region.	K2
CO3	demonstrate understanding of the objectives and role of regional organisations.	K3
CO4	assess the areas of conflict and cooperation.	K4
CO5	critically evaluate multilateral and bilateral initiatives in the region.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Historical and Geographical Setting 1.1 Geostrategic Location of India 1.2 India's position in South Asia 1.3 India's neighbourhood policy - Panchsheel to Gujral Doctrine	K1-K3 K4-K5 K1-K5	10	CO1-5
2	India's relations with Pakistan 2.1 Colonial policy – Partition of India – Kashmir Issue 2.2 Indo -Pak Wars – Impact of Cold War 2.3 Nuclear Tests and Missile Race – Indus River Water Sharing –Economic and other issues.	K1-K3 K1-K4 K1-K4	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
3	India's relations with China 3.1 Indo-China War of 1962 3.2 Border Dispute and Negotiations – Tibetan Issue – Sikkim Issue 3.3 Chinese and the Indian Ocean	K1-K4 K3-K5 K3-K5	15	CO1-5
4	India's relations with Bangladesh and Sri Lanka 4.1 Creation of Bangladesh - Farakka Barrage and Rohingya Refugee crisis 4.2 Dispute in the Palk Straits – Katchatheevu Issue – 4.3 Sri Lankan Tamil Issue	K1-K3 K1-K4 K3-K5	15	CO1-5
5	India's relations with smaller neighbours 5.1 Nepal and Afghanistan 5.2 Bhutan and Maldives 5.3 SAARC: Origin – Contribution to cooperation and development in South Asia	K1-K3 K3-K5 K1-K4	10	CO1-5

BOOKS FOR STUDY

Jayapalan, N. *India and Her Neighbours*. Atlantic Publishers, 2000.
 Roy, Meenu. *India and Her Sub-continent*. Deep and Deep Publications, 2010.
 Dixit, J. N. *India's Foreign Policy and Its Neighbours*. Gyan Books, 2010.

BOOKS FOR REFERENCE

Trivedi, Ramesh. *India's Relations with her Neighbours*. Isha, 2000.
 Shekhawat, Bindra Singh. *India and Her Neighbours*. Deep and Deep Publication, 1984.
 Joshi, Aparna. *India and Her Neighbours – Past Present and Future*. 2011.

JOURNALS

International Relations of the Asia Pacific, Oxford University Press.
 The China Review, Chinese University of Hongkong Press.

WEB RESOURCES

www.spf.org
www.mofa.go.jp

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/ME/IN45												
	Course Title: India and Her Neighbours (1947-2004)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	2	2	2	3	2	3	3	3
CO 2	2	3	2	2	2	2	3	3	3	1	3	3	3
CO 3	3	3	2	2	2	2	3	3	3	2	3	3	3
CO 4	2	3	3	1	2	2	3	2	3	3	2	3	3
CO 5	2	3	3	1	3	2	2	3	3	2	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

AIRPORT CUSTOMER SERVICES

CODE: 23HS/ME/AS45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students understand basic airline operations.
- To make them familiar with airport formalities.
- To help students learn about the types of passengers.
- To enable students to understand customer and baggage handling.
- To familiarise students with travel procedures and formalities.

COURSE LEARNING OUTCOMES:

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	describe the different types of airport customer services.	K1
CO2	explain arrival and departure formalities.	K2
CO3	list out the different documents required for air travel.	K3
CO4	compare and contrast the different types of customers.	K4
CO5	evaluate the challenges of passengers and baggage handling.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Overview of Aircraft Operations 1.1 Access to Aircraft - Technical Terms - Terminals and Runways 1.2 Flight operations, Crew and Cargo Administration 1.3 Catering – In-flight and Ground Catering	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Arrival and Departure Formalities 2.1 Arrival and Departure Procedures - Passenger tickets - Baggage - Tickets – MCO 2.2 Transportation Documents – Travel Insurance – Health Documents 2.3 Check-in – Passenger and Baggage Check-ins - Boarding passes – Passport – Visa and Security, Security Screening - Immigration – Customs Clearance – Embarkation and Disembarkation	K1-K3 K1-K4 K1-K4	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
3	Categories of Passengers 3.1 Very Important Person (VIPs) - Commercially Important Passengers (CIPs) 3.2 Frequent Flyers - Unaccompanied Minor (UMNR) - Families with Infants – Children 3.3 Passengers with Reduced Mobility (PRMs) and Unruly Passengers	K1-K4 K3-K5 K3-K5	10	CO1-5
4	Passenger handling 4.1 Handling Difficult Passenger Situations at Airport and In-flight 4.2 Delay on Departure of flight – Transit flights – Cross Connection Flights – Cancellation of Flights – Diversion of Flights 4.3 Handling Overbooking	K1-K3 K1-K4 K3-K5	10	CO1-5
5	Baggage Handling 5.1 Checked Baggage – Unchecked Baggage - Pets, Animals in - Cabin and in-hold - Dangerous Goods in Baggage 5.2 Crew Baggage - Lost Baggage - Expedite Baggage - Unclaimed Found Baggage Lost, Found and Damaged Personal Property 5.3 Damage of Checked Baggage and Pilfered Property - Central Baggage Tracing Systems	K1-K3 K3-K5 K1-K4	15	CO1-5

BOOKS FOR STUDY

Airport Manual.

Airport Authority Manual.

Frankfinn Institute – Manual.

BOOKS FOR REFERENCE

Airport Manual.

Airport Authority Manual.

JOURNALS

Journal of Airline and Airport Management, Spain.

Journal of Airport Management, London.

WEB RESOURCES

www.iata.org www.aai.aero

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/ME/AS45												
	Course Title: Airport Customer Services												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	2	2	3	2	3	2	2	3	3
CO 2	2	2	2	1	2	3	2	2	2	1	2	2	2
CO 3	2	2	2	2	3	2	3	3	3	1	2	3	2
CO 4	3	3	2	3	1	2	3	2	2	3	2	2	3
CO 5	3	2	2	3	3	2	2	2	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

ENTREPRENEURSHIP

CODE: 23HS/ME/ET45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

COURSE OBJECTIVES

- To help students understand the scope of entrepreneurship.
- To help them gain knowledge of career opportunities as entrepreneurs.
- To increase understanding of the various competencies required for entrepreneurship.
- To train them to identify entrepreneurial opportunities.
- To help students understand what is needed to be successful entrepreneurs.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	identify entrepreneurial ideas.	K1
CO2	explain the competencies needed for entrepreneurship.	K2
CO3	use the government and other supports available for financial planning.	K3
CO4	assess entrepreneurial opportunities.	K4
CO5	evaluate business plans.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Entrepreneurship, entrepreneur, enterprise - meanings; functions of an entrepreneur, role of entrepreneurship in economic development 1.2 Myths about entrepreneurship, benefits and potential drawbacks, avoiding pitfalls, qualities of successful entrepreneurs/competencies 1.3 Types of entrepreneurs: part-time, home-based, family business, retirees, social entrepreneurship, women entrepreneurs etc.	K1-K3 K4-K5 K1-K5	10	CO1-5
2	Starting an enterprise 2.1 Idea generation; sources and methods of entrepreneurial idea generation 2.2 Screening entrepreneurial ideas - opportunity identification, feasibility analysis	K1-K3 K1-K4 K1-K4	13	CO1-5

UNIT	CONTENT	CL	HRS	CO
	2.3 Developing and testing a business model - minimum viable products, creating business plans			
3	Finance 3.1 Start-up and growth stage financing; bootstrapping, equity, debt 3.2 Understanding financial terms - balance sheets, assets, liabilities, income and cash-flow statements, profits, income, revenue, break-even analysis 3.3 Pricing and credit strategies, creating a successful financial plan, managing cash flow	K1-K4 K3-K5 K3-K5	15	CO1-5
4	Ownership and organization of businesses 4.1 Sole proprietorships, partnerships, companies, limited liability companies 4.2 Buying businesses and franchising 4.3 Entrepreneurship in Tourism – challenges	K1-K3 K1-K4 K3-K5	12	CO1-5
5	Growing a business 5.1 Growth strategies for small businesses, leadership and team-building in entrepreneurship, management succession 5.2 Institutions assisting entrepreneurs - Government, Banking and Non-Banking Institutions 5.3 Exit strategies	K1-K3 K3-K5 K1-K4	15	CO1-5

BOOKS FOR STUDY

Khanka, S.S. *Entrepreneurial Development*. S. Chand, 2015.

Desai, V. *Dynamics of Entrepreneurship Development and Management*. Himalaya Publishers, 2015.

BOOKS FOR REFERENCE

Suresh, Jayashree. *Entrepreneurial Development*. Margham Publications, 2015.

Gupta, C.B., and N. P. Srinivasan. *Entrepreneurial Development*. Sultan Chand, 2016.

Poornima, C. *Entrepreneurship Development - Small Business Enterprises*. Pearson, 2011.

Robert, D. H., and M.P. Peters. *Entrepreneurship*. Tata McGraw Hill, 2013.

JOURNALS

International Journal of Entrepreneurship Development and Small Business, Inderscience.

Journal of Entrepreneurship Education, Springer.

Journal of Business Venturing, Elsevier.

WEB RESOURCE

entrepreneurindia.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/ME/ET45												
	Course Title: Entrepreneurship												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	2	2	3	2	2	2	2	3	3	3	2
CO 2	3	3	2	3	3	2	3	2	3	3	3	2	3
CO 3	2	2	2	2	3	3	2	2	2	2	3	3	3
CO 4	2	3	3	2	3	2	2	2	3	3	3	3	2
CO 5	3	3	2	3	3	2	2	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO ARCHAEOLOGY

CODE: 23HS/ME/AR45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students to develop an understanding of the principle, methods and history archaeology with special reference to India.
- To help them understand how archaeological tools and equipment are used.
- To enable them analyse archaeological data by using dating methods and other techniques.
- To help them to understand the legal and ethical concerns in archaeology.
- To enable students to gain awareness of career opportunities in archaeology.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	describe the principles and methods used in archaeology.	K1
CO2	explain the use of archaeological tools and equipment	K2
CO3	demonstrate knowledge of dating methods and post-excavation analysis methods.	K3
CO4	analyse the ethical and legal aspects of archaeology.	K4
CO5	evaluate archaeological arguments about the past, supported by scholarly evidence.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Archaeology - Definitions and Types 1.2 History of Archaeology 1.3 Archaeology in India - Sir William Jones, Alexander Cunningham, Fleet, Hultzsch, Meadows Taylor, Robert Bruce Foote, Lord Curzon, Sir John Marshall, Sir Mortimer Wheeler, B.B. Lal, Daya Ram Sahni, K.N. Dixit	K1-K3 K4-K5 K1-K5	10	CO1-5
2	Excavation: Staff and Equipments 2.1 Excavation staff and their functions	K1-K3	12	CO1-5

UNIT	CONTENT	CL	HRS	CO
	2.2 Types of tools and equipment 2.3 Modern tools and uses	K1-K4 K1-K4		
3	Excavation: Principles and Methods 3.1 Layout of Trenches - Vertical and Horizontal excavation - Quadrant Method 3.2 Excavation structures and types - rock shelters and pre-historic sites, ancient towns, burials, stupas, mud structure and pottery yard 3.3 Recent Trends in Archaeology – Archaeology as a Career- Types of Archaeologists	K1-K4 K3-K5 K3-K5	15	CO1-5
4	Dating types and Post Excavation Methods 4.1 Radio-carbon dating, thermoluminescence dating, Archaeo-magnetism, Potassium Argon dating, Fluorine dating, Uranium dating, Dendro-chronology, 4.2 Documentation and Publication – Field notebook, Antiquity Register, Antiquity Register, Site map and Contour maps, Photo-documentation 4.3 Conservation of artifacts	K1-K3 K1-K4 K3-K5	13	CO1-5
5	Excavation Sites and Archaeological Legislations 5.1 Athirampakkam, Taxila, Nalanda, Hampi, Nagarjunakonda, Arikamedu, Korkai, Muziris, Keeladi 5.2 Role of ASI, State Department of Archaeology, INTACH, Aga Khan Trust for Culture 5.3 Ancient Monuments Preservation Act, 1904, Ancient Monuments and Archaeological Sites & Remains (Amendment & Validation) Act, 2010	K1-K3 K3-K5 K1-K4	15	CO1-5

**** Field Visit to Archaeological Sites****

BOOKS FOR STUDY

Chakrabarti, D.K. *History of Indian Archaeology*. Munshiram Manoharlal, 1995.
Raman, K.V. *Principles and Methods of Archaeology*. Parthajan, 1998.

BOOKS FOR REFERENCE

Rajan, K. *Principles and Methods of Archaeology*. Pathipakkam, 2003.
Agrawal, D.P and M.D. Yadava. *Dating the Human Past*. ISPQS, 1995.
Drewett, L. Peter. *Field Archaeology*. UCL Press, 1999.
Fagan, Brian. *In the Beginning: An Introduction to Archaeology*. London, 1994.

JOURNALS

The Archaeological Journal, Taylor and Francis.
Journal of History, Art and Archaeology. ARF publication, Haryana.
Indian Journal of Archaeology.

WEB RESOURCES

www.asi.org

www.intach.org

www.archaeology.org

www.asi.nic.in

www.tnarch.gov.in

www.ijarch.org

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
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C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
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	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HS/ME/AR45												
	Course Title: Introduction to Archaeology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	2	3	3	3	3	1	2	2	3	3
CO 2	3	3	3	3	3	3	3	3	3	2	3	3	3
CO 3	3	3	3	2	3	3	3	2	3	3	3	2	3
CO 4	2	2	2	1	2	2	3	3	3	3	2	3	3
CO 5	3	3	3	2	3	2	2	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT

CODE: 23HS/ME/PR45

CREDITS: 5

OBJECTIVES OF THE COURSE

- To enable students to develop research capabilities.
- To make students develop an interest in minor and major research projects.
- To help students gain knowledge of career opportunities through projects.
- To enable students have a better understanding of the process of research.
- To help students learn the techniques of research writing.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the process of research.	K1, K2
CO2	paraphrase and summarize knowledge gained from sources.	K3
CO3	collect, collate and synthesise data.	K4
CO4	assess the techniques needed for different kinds of research and use them in project writing.	K5
CO5	write a brief dissertation using accepted research methodology.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 - Create		

Project Guidelines

- A small-scale research project which can be completed in the amount of time one would spend in and out of class for a regular 6-credit module
- Organised into chapters and with a contents page, references and bibliography.
- Preferable link made between theory and practise.
- There should be empirical research, though may be modest in scale but first-hand research is essential to enhance the overall quality of the project

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1. Introduction : a general introduction to the topical area 1.2. Statement of the problem: very specific statement of the problem to be studied. 1.3. Purpose of the Project: in this section a description about the overall purpose of the project should be made known	K1-K3 K4-K5 K1-K6	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Project Overview 2.1 Definition of Terms 2.2. Significance of the project 2.3 Review of literature	K1-K3 K1-K4 K1-K4	15	CO1-5
3	Methodology 3.1 Explain the methods used for collecting data 3.2 Descriptive writing approach must be utilized 3.3 Collection of Data – Primary and Secondary	K1-K4 K3-K5 K3-K5	15	CO1-5
4	Summary and Recommendations 4.1 Introduction – an overview of the project should be provided in the section 4.2 Summary and Recommendations 4.3 References and Appendices	K1-K3 K1-K6 K3-K5	10	CO1-5
5	Emerging Trends in Research 5.1 Authenticity of References and Citations 5.2 Use of AI tools 5.3 Plagiarism	K1-K3 K3-K5 K1-K4	10	CO1-5

Contents of the Project Report

- Cover page
- Title page
- Acknowledgements
- Contents page
- List of figures or illustrations
- Main body – Introduction
- Main body – Review of Literature
- Main body – Methodology
- Main body – Summary
- Main body – Recommendations
- Main body – Conclusion
- Reference List/Bibliography
- Appendices
- **Avoid Plagiarism**

PATTERN OF EVALUATION

Rubrics	Marks	Cognitive Level
Documentation/sources	10	K1
Formulating topic statement	15	K2
Explaining the conceptual framework	15	K3
Primary source analysis	20	K4
Research arguments	20	K5
Research conclusions	10	K6
Presentation/Viva	10	K6

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23HS/ME/PR45												
	Course Title: Project												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	2	3	3	3	3	3	3
CO 2	2	3	3	3	3	3	2	3	3	2	3	3	3
CO 3	2	3	3	3	3	2	2	3	3	2	3	3	3
CO 4	2	3	3	3	2	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	2	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**General Elective Course offered by the Department of History for
B.A./B.Sc./B.Com./B.V.A. Degree Programmes**

SYLLABUS

(Effective from the Academic Year 2023-2024)

HISTORY OF CHENNAI CITY - ONLINE

CODE:23HS/GE/HC22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To enable students to understand the evolution of Chennai city.
- To help students know the contributions of significant people in the city's history.
- To learn about organisations and institutions in Chennai.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the growth of Chennai city over the ages.	K1
CO2	explain the social and cultural heritage of Chennai.	K2
CO3	illustrate with examples the different architectural styles found in Chennai.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Origin of the City 1.1 Early History 1.2 Origin of the City 1.3 European Settlements	K1-K3 K1-K3 K1-K3	6	1-3
2	People and Places 2.1 Important Governors and their Contribution 2.2 Chief Ministers of Madras 2.3 Streets and Localities	K1-K3 K1-K3 K1-K3	10	1-3
3	Organisations and Institutions 3.1 Administrative Organisations - Corporation, Judicial, Police 3.2 Educational and Cultural Institutions 3.3 Industrial Houses - Media	K1-K3 K1-K3 K1-K3	10	1-3

This course may also be offered online:

UNIT	CONTENT
Module 1	Antiquity of Chennai city Pioneering Contribution of Chennai city and the Origin of the name 'Madras'
Module 2	Advent of the Portuguese, Dutch , Danes and the French influence in Madras Advent of the English in Madras
Module 3	Genesis and growth of Fort St. George Expansion of the settlement from Fort St. George
Module 4	Governors of Madras Genesis and Growth of Madras Corporation
Module 5	Genesis of Judicial Administration Nattukottai Chettiars, Banking System in Madras, History of Police Administration in Madras
Module 6	Old Industrial/ Business Houses
Module 7	Dravidian Movement EVR and Self-Respect Movement
Module 8	Contribution of Christian Missionaries in field of Education Earliest Educational institutions in Madras
Module 9	Annie Besant and the Theosophical Society Art and Cultural Institutions in Madras
Module 10	Genesis and Growth of the Madras Port Trust History of Transportation in Madras
Module 11	Development of the Press Theatre and Films - over the years
Module 12	Architecture and Town Planning in Madras Streets and Localities
Module 13	Chief Ministers of Madras Chennai as a Heritage city

BOOKS FOR STUDY

Muthiah. S. *Madras Discovered*. Madras: East West, 1990.

Muthiah. S. *Madras Rediscovered*. Madras: East West, 1990.

Rajaraman P. *Chennai through the Ages*. Madras: Poomphozil, 1997.

BOOKS FOR REFERENCE

Maclean, C.D. *Manual Administration of the Madras Presidency*. (3 Volumes), Madras: Asian Educational Services, 1989.

Sudhakar G.J. *Aspects of Madras*. Madras: Loyola, 1993

JOURNALS

Bi-annual Journal of Indian Art, Culture, Heritage and Tourism, Bharati Women's College,
Chennai.

Journal of Humanities and Social Science, International Organization of Scientific Research (IOSR).

WEB RESOURCES

www.intach.org

www.madrasmusings.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

MCQ's 10 x 1 = 10 marks

One Word Answers 10 x 1 = 10 marks

Short Essay in 500 words 10 x 1 = 10 marks

One Evaluation per Module for 10 marks

Bes 10 Assignments will be selected and the marks would be converted to 50 Marks

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**General Elective Course offered by the Department of History for
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SYLLABUS

(Effective from the Academic Year 2023-2024)

INTRODUCTION TO INDIAN PERFORMING ARTS AND PAINTING

CODE: 23HS/GE/IP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To inculcate an appreciation for the finer qualities of performing arts and painting as a medium of communication.
- To develop a critical faculty in understanding art.
- To highlight the utility of art and multimedia in human life.

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

COs	DESCRIPTION	CL
CO1	identify the different art forms of India.	K1
CO2	describe the various dance schools.	K2
CO3	illustrate the different types of music.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Music and Dance 1.1 History of Music – Musical Instruments – Folk Music 1.2 History of Dance – Classical Dances of India – Folk Dance 1.3 Dance Schools and Festivals	K1-K3 K1-K3 K1-K3	10	1-3
2	Performings Arts 2.1 Puppetry – Types of Puppetry 2.2 Villu Pattu – Therukoothu – Poi Kal Kuthirai Attam 2.3 Drama – Musicals	K1-K3 K1-K3 K1-K3	6	1-3
3	Paintings(10 Hours) 3.1 Mural and Miniature Traditions - Mughal, Madhubani, Tanjore 3.2 Schools of Painting – Bengal School 3.3 Modern Painters – Raja Ravi Verma, M.F,Hussain	K1-K3 K1-K3 K1-K3	10	1-3

BOOKS FOR STUDY

Mukhopadhyay, Das Durga. *Folk Art and Social Communication*. Publication Division Government of India, New Delhi, 1994.

Narayan, Shovana. *The Sterling Book of Indian Classical Dances*. Sterling, New Delhi, 2007.

BOOKS FOR REFERENCE

Chaitanya, Deva Bigamudre. *Indian Music*. Taylor and Francis, 2002.

Kumar, Raj. *Essays on Indian Music*. New Delhi : Discovery, 2003.

Kokhar, Aashish Mohan. *Classical Dances*. New Delhi : Ruper, 2005.

Ghosh, Sampa and Banerjee, Utpal Kumar. *Indian Puppets*. New Delhi : Abhinav. Sharma,

Lokesh Chandra. *A Brief History of Indian Painting*. New Delhi: Goel.

JOURNALS

Journal of Ethno-musicology – National Folklore Support Centre, 2008. Indian

Folklore Research Journal – Sruthi-Marg Publication.

WEBSITES

www.danceperception.com www.narthaki.com

www.folklore-society.com

PATTERN OF ASSESSMENT

Continuous Assessment: (Internal Only) Total Marks: 25 Duration: 60 minutes

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

Other Components:

Total Marks: 25

Scrap Book/Group discussion/Seminar presentation/Group Assignments/Presentations/Chart Work/Exhibition of Models

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086
General Elective Course offered by the Department of History for
B.A./B.Sc./B.Com./B.V.A. Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

A

APPRECIATION OF INDIAN CINEMA

CODE: 23HS/GE/AC22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To enable the students to understand the history of Indian cinema since its inception.
- To help the students to understand nuances of Indian cinema.
- To understand how cinema is connected to politics.

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

COs	DESCRIPTION	CL
CO1	identify key terms connected with cinema and different genres.	K1
CO2	describe the growth of Indian Cinema over the ages.	K2
CO3	distinguish different kinds of films.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Cinema: An Introduction 1.1 Origin of Indian Cinema 1.2 Definitions and Key terms of Cinema 1.3 Film Critics	K1-K3 K1-K3 K1-K3	6	1-3
2	Film History 2.1 Overview of Film History 2.2 Overview of Film History with special reference to Tamil Nadu 2.3 Cinema and Politics	K1-K3 K1-K3 K1-K3	10	1-3
3	Appreciation of Films 3.1 Film Genres 3.2 Types of Films – Art, Commercial, Educational 3.3 Film as an experience, brand commodity and communication media	K1-K3 K1-K3 K1-K3	10	1-3

BOOKS FOR STUDY

Nelmes, Jill. *An Introduction to Film Studies*. London : Routledge, 1996. Roberge, Gaston. *The Subject of Cinema*. Calcutta : Seagull, 1985.

BOOKS FOR REFERENCE

Turner, Graeme. *Film as a Social Practice*. London : Routledge, 1993.
Vasudev Aruna. *The New Indian Cinema*. Delhi: Macmillan, 1989.
Phillips, Williams H. *Film – An Introduction*. New York : Bedford, 2005.

JOURNALS

Film Appreciation Academic Journal (Biannual), India.
Cinema in India (Quarterly), NFDC.

WEB RESOURCES

www.satyajitray.org www.film-tvstudies.org

PATTERN OF ASSESSMENT

Continuous Assessment: (Internal Only) **Total Marks: 25** **Duration: 60 minutes**

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

Other Components:

Total Marks: 25

Scrap Book/Seminar presentation/Exhibition/Objective tests /Film reviewing

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**General Elective Course offered by the Department of History for
B.A./B.Sc./B.Com./B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

FUNDAMENTALS OF THE INDIAN CONSTITUTION - ONLINE

CODE: 23HS/GE/FI22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To enable students to appreciate their democratic rights and duties.
- To help them understand the scope of the Constitution.
- To help students who wish to compete in the all-India competitive exams.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the basic features of the Constitution.	K1
CO2	explain the rights and duties of citizens in a democracy.	K2
CO3	apply constitutional values to understand the issues in politics today.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Features of the Indian Constitution and Constitutional Provisions 1.1 Salient features – Preamble - Citizenship 1.2 Fundamental Rights 1.3 Fundamental Duties - Directive Principles of State Policy	K1-K3 K1-K3 K1-K3	10	1-3
2	The Central Government and the Working of Democracy 2.1 The Union Executive – President, Prime Minister, Council of Ministers 2.2 The Parliament – The Judiciary – the Supreme Court 2.3 Secularism – Party politics	K1-K3 K1-K3 K1-K3	6	1-3
3	Election 3.1 Election Commission 3.2 Composition and responsibilities 3.3 General Elections in India	K1-K3 K1-K3 K1-K3	10	1-3

This course may also be offered online:

Module 1:	Salient Features of the Indian Constitution
Module 2:	Preamble
Module 3:	Citizenship
Module 4:	Fundamental Rights
Module 5:	Fundamental Duties and Directive Principles of State Policy
Module 6:	The Union Executive – President, Prime Minister, Council of Ministers
Module 7:	The Parliament – Centre State Relations
Module 8:	State Government – Chief Minister and his Council – State Legislative Assembly
Module 9:	Judiciary – Supreme Court and High Court
Module 10:	Election, Election Commission, General Elections in India and the Role of Major Parties

BOOKS FOR STUDY

Pylee, M.V. India's Constitution. New Delhi, 2017.

Basu, D.D. Introduction to the Constitution of India. New Delhi, 2011.

BOOKS FOR REFERENCE

Jain, M.P. Indian Constitutional Law. Nagpur: Lexis Nexis, 2018.

Shukla, Vijaya Narain; Sin Mahendra Pal, and V.N. Shukla. Constitution of India.

Nagpur: Eastern Book Company, 2017

Thiruvengadam, Arun K. The Constitution of India: A Contextual Analysis. North America, 2017

Choudhry, Sujit., Khosla, Madhav., Mehta, Pratap Bhanu. The Oxford Handbook of the Indian Constitution, United Kingdom: Oxford University Press, 2016.

Ananth, V. Krishna. The Indian Constitution and Social Revolution: Right to Property since Independence. New Delhi: Sage Publications, 2015

JOURNALS

Economic and Political Weekly (Sameeksha Trust)

Madras Law Journal (LexisNexis)

WEBSITES

<http://indiacode.nic.in/coiweb/welcome.html>

<http://supremecourtfindia.nic.in>

PATTERN OF ASSESSMENT

Online assessment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

**General Elective Course offered by the Department of History for
B.A./B.Sc./B.Com./B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNATIONAL AFFAIRS SINCE 1945

CODE: 23HS/GE/IA22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVE OF THE COURSE

- To provide an overview of the major political developments in the international arena.
- To trace the development of modern international system from 1945.
- To understand the roles and functioning of important international institutions.

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

COs	DESCRIPTION	CL
CO1	describe key events in international history since 1945.	K1
CO2	explain the roles of major international institutions.	K2
CO3	prepare simulations such as Mock UN sessions.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to International Relations 1.1 Definition and Scope of International Relations 1.2 National Power and Diplomacy 1.3 United Nations – Formation – Disarmament	K1-K3 K1-K K1-K3	10	1-3
2	Post Second World War 2.1 Cold War – NATO, WARSAW 2.2 Non-Aligned Movement – Globalisation 2.3 Regional Initiatives – ASEAN – SAARC – EU – NIEO	K1-K3 K1-K3 K1-K3	10	1-3
3	Application of International Relations 3.1 Implication of International Relations 3.2 Panel Discussion 3.3 Mock UN	K1-K3 K1-K3 K1-K3	6	1-3

BOOKS FOR STUDY

Lundestad, Geir. *International Relations since 1945: East, West, North, South*. New Delhi: Sage Publications, 2017.

Lawson, Stephanie. *International Relations*. Polity, 2017.

BOOKS FOR REFERENCE

Bell, P. M. H., Gilbert, Mark. *The World Since 1945: An International History*. Bloomsbury Academic, 2016.

Joyce P. Kaufman, *Introduction to International Relations: Theory and Practice*, (Littlefield, 2013)

Peu, Ghosh. *International Relations*, (PHI, 2013)

Young, John W. and John Kent, *International Relations Since 1945*, (Oxford, 2013)

JOURNALS

Contemporary European History: Cambridge Journals, Cambridge University Press.

India Quarterly: A Journal of International Affairs (Indian Council of World Affairs).

International Studies (Quarterly), J.N.U., New Delhi.

Pacific Affairs: An International Review of Asia and the Pacific (Quarterly) Vancouver.

WEBSITES

<http://www.un.org/en/>

www.asean.org/

PATTERN OF ASSESSMENT

Continuous Assessment: (Internal Only) Total Marks: 25 Duration: 60 minutes

Section A - 5 x 2 = 10 (Any 5 out of 7 in 30 words each)

Section B - 2 x 5 = 10 (Any 2 out of 4 in 250 words each)

Section C - 1 x 5 = 5 (Any 1 out of 2 in 500 words each)

Other Components:

Total Marks: 25

Group discussion/Seminar presentation/Mock United Nations /Quiz/Objective tests/
Assignments

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF SOUTH EAST ASIA SINCE 1945

CODE: 23HS/UI/SA23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To familiarize students with the key persons and events in the history of South East Asia since 1945.
- To understand the process of decolonization in Southeast Asian nations.
- To enable students to comprehend the economic and political transformations in the area.
- To understand the major recent historical conflicts in the region.
- To help students understand the role of the South East Asian countries in world politics.

Unit 1

Rise of Nationalism in South East Asia

- 1.1 Circumstances: Education and Self- Determination
- 1.2 Liberalism
- 1.3 Impact of the World War II

Unit 2

Anti – Colonial Struggles - I

- 2.1 Laos
- 2.2 Cambodia
- 2.3 Vietnam – Independence to Cold War and after

Unit 3

Anti – Colonial Struggles - II

- 3.1 Burma
- 3.2 Malaysia
- 3.3 Singapore

Unit 4

Transformation of South East Asia

- 4.1 Thailand
- 4.2 Philippines
- 4.3 Indonesia and Brunei

Unit 5

South East Asia in World Affairs

- 5.1 ASEAN
- 5.2 Foreign Politics and Role in International Affairs.
- 5.3 Post Cold war Era, Domestic Compulsions and America's foreign Policy

BOOKS FOR REFERENCE

Reid, Anthony. *A History of Southeast Asia: Critical Crossroads*. UK, 2015.
Cotterell, Arthur. *A History of South East Asia*. Singapore, 2014.
Ricklefs, M.C., Bruce Lockhart, and Albert Lau. *A New History of Southeast Asia*. London, 2010.
Rao, B.V. *History of Asia, From Early Times to 2000 AD*. New Delhi, 2001.
Tarling, Nicholas. *The Cambridge History of Southeast Asia: Volume 1, From Early Times to C.1800*. Australia, 1992.

PATTERN OF EVALUTION

End Semester Examination: Total Marks: 100 Duration: 3 hours

Section A - 10 x 3= 30 (All questions to be answered in 30 words each)

Section B - 5 x 8= 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10= 30 (3 questions to be answered in 1000 words each in either or pattern

Eg. 19(a) or (b))

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE: BRANCH I A -- HISTORY AND TOURISM

SYLLABUS

(Effective from the academic year 2023-2024)

CHINA AND JAPAN IN THE 20TH CENTURY
(Not for History Students)

CODE: 23HS/UI/CJ23

CREDITS:3

OBJECTIVES OF THE COURSE

- To become familiar with Japan's and China's encounters with western imperialism.
- To understand the rise and growth of Japan as a modern nation.
- To study the history of China and its rise to its present position.
- To enable students to comprehend the impact of communism on Chinese history.
- To understand India's relations with both these nations.

Unit 1

The West and East Asia in the early 20th Century

- 1.1 The Anglo-Japanese Alliance
- 1.2 Russo-Japanese War
- 1.3 Chinese Revolution of 1911

Unit 2

Rise of Nationalism in China

- 2.1 Yuan Shih-kai - Warlordism
- 2.2 Dr. Sun Yat-sen and Kuomintang
- 2.3 Nationalist Government

Unit 3

Imperialism and Militarism in Japan

- 3.1 Japan in World War I - Washington Conference
- 3.2 Manchurian Crises and the Second Sino-Japanese War
- 3.3 Japan in World War II

Unit 4

Post War China

- 4.1 Mao Zedong and the Rise of Red China
- 4.2 China after Mao: Deng Xiaoping
- 4.3 Post-war Japan – Social, Economic and Political Transformation

Unit 5

Japan after the Second World War

- 5.1 SCAP and the Constitution of 1947; Demilitarization and Democratization.
- 5.2 San Francisco Conference - Social and Economic Transformations
- 5.3 Relations between China, Japan, and India

BOOKS FOR STUDY

Rao, B.V. *History of Asia from Early Times to 2000 A.D.* Sterling, 2001.

Vinacke, H.M. *History of the Far East in Modern Times.* George Allen and Unwin, 1971.

BOOKS FOR REFERENCE

Chesneaux, J.B.M., and M.C. Bergere. *China from Opium Wars to 1911.* Harvester, 1976.

Clyde, P.H., and B.F. Beers. *The Far East 1830-1975.* Prentice Hall of India, 1988.

Jain, R.K. *History of China and Japan 1949-80.* Radiant, 1982.

Roy, S.L. *A Short History of Far East in Modern Times.* Charu, 1980.

Taylor, M., and G.E. Taylor. *The Far East in the Modern World.* Dryden, 1964.

PATTERN OF ASSESSMENT

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A - 10 x 3= 30 (All questions to be answered in 30 words each)

Section B - 5 x 8= 40 (5 out of 8 questions to be answered in 300 words each)

Section C - 3 x 10= 30 (3 questions to be answered in 1000 words each in either or pattern

Eg. 19(a) or (b)



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

B.A. DEGREE
Branch III SOCIOLOGY
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

DEPARTMENT OF SOCIOLOGY

PROGRAMME DESCRIPTION

Sociology Programme aims to develop sociological imagination among students. This involves the ability to understand how individuals and group behaviour is influenced by society's past and present developments. The so called personal issues are predominantly in fact connected to societal structure and problems and Sociological perspective provides an objective view of these issues. This imaginative ability will promote critical thinking for effective participation in professional and personal affairs and progress towards inclusive society.

VISION OF THE DEPARTMENT

The vision of the department is to acquire higher reputation through providing a stimulating and inclusive environment for an enhancing experience and to create responsible citizens.

MISSION OF THE DEPARTMENT

- To provide educational experience that will encourage students to become aware of the significance of social structures and processes.
- Through a range of major core papers the department intends to provide our students with academic programmes and practical experiences that enhance their understanding and application of sociology and sociological imagination.
- To encourage the development of critical thinking, effective communication and responsibilities of community membership.
- To encourage students towards advanced academic pursuits and instil in them an entrepreneurial spirit.
- Develop intercultural competence and cultivate a spirit of inclusion

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.A. Sociology Programme, the students will be able to

PSO 1	develop sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues.
PSO 2	demonstrate effective and convincing application of sociological perspective through written and /or oral arguments
PSO 3	validate the ability to use major classical and/or contemporary perspectives in social theory to real life situations.
PSO 4	develop understanding and ability to effectively utilise several of the major social science research methodologies and techniques to navigate local and global realities/issues.
PSO 5	sensitively engage in understanding of gender concerns to empower and be empowered.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.A. Sociology 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	3	4	4	5	4	5	4	5	4	5	4	5	23	29
Major Core	4	5	4	5	4	5	4	5	4	5	4	5	24	30
									4	5	3	4	7	9
									3	4	3	4	6	8
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	112
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1				1				1	0	3
Mentoring		1		1				1		1		1	0	5
											Total		4	10
Total	26	30	25	30	26	30	24	30	24	30	24	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: BRANCH III - SOCIOLOGY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23SC/MC/PS14	Principles of Sociology I	4	4	1	0	3	50	50	100	
23SC/MC/IS13	Sociology of Indian Society	3	3	1	0	3	50	50	100	
23SC/AC/SG15	Social Gerontology	5	5	0	0	3	50	50	100	
23SC/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
23SC/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education									
SEMESTER-II										
23SC/MC/PS24	Principles of Sociology II	4	4	1	0	3	50	50	100	
23SC/MC/DI24	Development of Indian Social Thought	4	4	1	0	3	50	50	100	
23SC/AC/SA25	Social Anthropology	5	5	0	0	3	50	50	100	
23EL/SS/PD13	Life Skills: Personality Development (EL)	3	3	0	0	-	50	-	100	
	General Elective-I / Basic Tamil I									
SEMESTER-III										
23SC/MC/DS34	Development of Sociological Thought	4	4	1	0	3	50	50	100	
23SC/MC/SR34	Social Research and Social Statistics	4	4	1	0	3	50	50	100	
23SC/AC/GE35	Sociology of Gender	5	5	0	0	3	50	50	100	
23SC/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education									
	General Elective II / Basic Tamil II									
SEMESTER-IV										
23SC/MC/ST44	Sociological Theory	4	4	1	0	3	50	50	100	
23SC/MC/SD44	Sociology of Development	4	4	1	0	3	50	50	100	
Allied Core Offered to students of Sociology by Department of Psychology										
23PY/AC/FS45	Fundamentals of Social Psychology	5	5	0	0	3	50	50	100	
	Major Elective I									
SEMESTER-V										
23SC/MC/SM54	Sociology of Media	4	4	1	0	3	50	50	100	
23SC/MC/CV54	Sociology of Crime and Victims	4	4	1	0	3	50	50	100	
23SC/MC/ER54	Sociology of Ethnic Relations	4	4	1	0	3	50	50	100	
23SC/MC/RU53	Rural and Urban Sociology	3	3	1	0	3	50	50	100	
	General Elective III									
	SAP / SL									
Interdisciplinary Core (SC and ZL) to students of Sociology and Zoology										
23ID/IC/SZ55	Socioethnozoology	5	5	1	0	3	50	50	100	
SEMESTER-VI										
23SC/MC/SR64	Sociology of Religion	4	4	1	0	3	50	50	100	
23SC/MC/ES64	Environmental Sociology	4	4	1	0	3	50	50	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: BRANCH III - SOCIOLOGY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23SC/MC/SL63	Sociology of Law	3	3	1	0	3	50	50	100
23SC/MC/SM63	Social Movements	3	3	1	0	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23SC/ME/NG45	Non Governmental Organizations	5	5	0	0	3	50	50	100
23SC/ME/LS45	Logic and Scientific Methods	5	5	0	0	3	50	50	100
23SC/ME/IS45	Industrial Sociology	5	5	0	0	3	50	50	100
23SC/ME/PO45	Political Sociology	5	5	0	0	3	50	50	100
23SC/ME/SH45	Sociology of Health	5	5	0	0	3	50	50	100
23SC/ME/SE45	Social Entrepreneurship	5	5	0	0	3	50	50	100
23SC/ME/PR45	Project	5	0	0	5	-	-	100	100
General Electives									
23SC/GE/SS22	Sociology of Sports	2	2	0	0	-	50	-	100
23SC/GE/SP22	Sociology of Popular Culture	2	2	0	0	-	50	-	100
23SC/GE/GS22	Gender Studies	2	2	0	0	-	50	-	100
23SC/GE/SM22	Society and Media	2	2	0	0	-	50	-	100
23SC/GE/SL22	Society and Law	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23SC/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23SC/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23SC/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23SC/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23SC/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23SC/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23SC/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23SC/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23SC/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Electives									
23SC/UI/SN23	Social Networking	3	0	0	0	3	-	100	100
23SC/UI/CS23	Corporate Social Responsibility	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF SOCIOLOGY I

CODE: 23SC/MC/PS14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the students to the basic concepts in Sociology
- To acquaint the students with the discipline as a social science
- To initiate a Sociological imagination of the society
- To make the students comprehend the development of self through the process of socialisation and the role of society
- To appreciate multi-cultural differences and similarities

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and identify concepts and knowledge of sociology to understand society.	K1
CO2	compare and classify primary concepts in Sociology viz, community, society, association, status and role etc	K2
CO3	describe Socialization and its processes, theories and agencies of Socialization	K3
CO4	examine the types of Social groups and their functions in the society and to analyse the dynamics of society	K4
CO5	evaluate culture and the different cultural processes and its impact on social behaviour.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Nature and Scope of Sociology 1.2 Definition, Subject Matter 1.3 Sociology as Science, Importance of Sociology 1.4 Relationship to other Social Sciences 1.4.1 History 1.4.2 Political Science 1.4.3 Economics 1.4.4 Anthropology 1.4.5 Philosophy 1.4.6 Psychology	K1- K4	15	1-5

UNIT	CONTENT	CL	HRS	CO
2	Primary concepts 2.1 Society 2.2 Community 2.3 Institutions 2.4 Association 2.5 Status and Role	K1-K4	12	1-5
3	Socialisation 3.1 Definition, Process of Socialisation 3.2 Theories of Socialisation 3.3 Agencies of Socialisation: Family, Peer Group, School, Neighbourhood, Mass Media, Religion and State	K1-K5	12	1-5
4	Social Groups 4.1 Definition, Classification 4.2 Characteristics of Social Groups 4.3 Types of Social Groups 4.4 Functions of Primary and Secondary groups	K1-K5	13	1-5
5	Culture 5.1 Definition, Elements of Culture 5.2 Characteristics, significance of culture 5.3 Cultural Processes 5.3.1 Assimilation 5.3.2 Diffusion 5.3.3 Acculturation 5.3.4 Cultural Lag 5.3.5. Culture Shock	K1-K5	13	1-5

BOOK FOR STUDY

Anthony Giddens, Mitchell Duneier, Richard P Appelbaum and Deborah Carr, Introduction to Sociology, W.W. Norton and Company, Inc., Eleventh Edition, New York, 2018
John Macionis, Sociology, Prentice Hall, U.S. 2007
Henry Tischler, Introduction to Sociology, Wadsworth Publishing, U.S. 2010

BOOKS FOR REFERENCE

Applebaum, Richard P., William J. Chambliss, Sociology, Addison, Wesley Educational Publishers inc., New York, 1997.
Duncan, O.D., & Mitchell, R., A New Dictionary of Sociology, , Kegan Paul, London: Routledge, 1978.
Harlambos, M, Sociology : Themes and Perspectives, Oxford University Press, New Delhi 1980
Inkeles, Alex, Foundations of Modern Sociology. Prentice Hall, Inc. New Jersey, 1982.
Nathan Rousseau, Society Explained : An Introduction to Sociology, Rowman and Littlefield, Lanham, Maryland, 2014.
Kathy S. Stolley, The Basics of Sociology, Greenwood Press, Westport, USA, 2005
Ken Plummer, Sociology The Basics, Routledge, Third Edition, New York, 2022
Robertson, Ian, Sociology. Worth Publishers., Inc., New York 1977.

WEB RESOURCES

<http://ocw.mit.edu/courses/anthropology/21a-219-law-and-society-spring-2003/study-materials/hobasicconcepts.pdf>

http://www.sagepub.com/upm-data/45619_4.pdf

<https://oercommons.org/courseware/lesson/11755/overview>

JOURNALS

<http://www.asanet.org/>

<http://www.britsoc.co.uk/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/PS14												
I	Course Title: Principles of Sociology I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	1	2	1	3	3	2	2	1	3
CO 2	3	2	3	3	1	2	1	3	3	2	2	1	3
CO 3	3	2	3	3	1	2	2	3	3	2	2	1	3
CO 4	3	2	3	3	1	2	1	3	3	2	2	1	3
CO 5	3	2	3	3	1	2	1	3	3	3	2	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF INDIAN SOCIETY

CODE:23SC/MC/IS13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to understand the intriguing aspects of Indian Society
- To identify the role of religions in the Indian social system
- To gain an insight into the issues and challenges of Indian Society
- To Interpret the social structure and social stratification in the Indian Society
- To explain the tradition and modernity in India

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	relate the unique aspects of Indian Society	K1
CO2	understand the trends of change in the society	K2
CO3	identify the current social issues in the society	K3
CO4	analyse the determinants of social structure in the society	K4
CO5	appraise the different strategies for equity and equality in the society	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Overview of Indian Society 1.1 Basis of Indian Society- Historical and Cultural 1.2 Sociology of the composition of Indian Society- Racial, Religious, Linguistic Groups in India 1.3 Indian Pluralism and Multi-Culturalism	K1	10	1
2	Basis of Indian Social Organization 2.1 Purusharthas, Karma, Varnashrama Dharma 2.2 Jainism, Buddhism, 2.3 Islam, Christianity-Basic Tenants	K2	10	2
3	Caste in India 3.1 Meaning of the Caste system 3.2 Varna, Jati and Casteism 3.3 Caste and Politics 3.4 Changing dimensions of caste system 3.5 Caste practices among the Hindus, Muslims and Christians	K1-K5	10	3

UNIT	CONTENT	CL	HRS	CO
4	Social Structure and Institutions in India 4.1 Religion and Marriage 4.2 Family: Definition, structure and functions of Family 4.3 Types of family; Changes in the family system and factors of changes in the family 4.4 Village structure and Change	K1-K5	11	4
5	Tradition and Modernity: Continuity and change 5.1 Sanskritization 5.2 Islamization 5.3 Westernization 5.4 Secularization 5.5 Urbanization	K1-K5	11	5

BOOKS FOR STUDY

Ahuja, Ram., Society in India : Concepts, Theories and Changing Trends. Rawat Publications, Jaipur, 1999.
 Das, Veena. Handbook of Indian Sociology. Oxford University Press, New York, 2004.
 Pandey Vinitha, Indian Society and Culture, Rawat Publication, New Delhi, 2018.

BOOKS FOR REFERENCE

Das, Veena Ed. The Oxford India Companion to Sociology and Social Anthropology, Oxford University Press. New Delhi, 2003 (Selected Essays).
 Dawan Nithesh, Indian Society: Perspectives and issues, , Oakbridge publishers, Gurugram 2022.
 Gupta Dipankar (ed). Social Stratification,: Oxford University Press, New Delhi, 1991
 Hutton, J. K., Caste in India: Its Nature, Function, and Origin. Oxford University Press, New Delhi, 1977.
 Hasnain Nadeem, Hasnain Aseem, Indian Society: Theme and social issues, Mc Graw Hill. New Delhi, 2021
 Hasnain Nadeem, Indian Society and Culture, New Royal Book Company, , Lucknow, 2010.
 Jayabalan N., Indian Society and Social Institutions, Atlantic Publishers, New Delhi, 2001
 Mandelbaum David. G, Society in India Vol 1 and 2, Popular Prakasham, 2008
 Prabhu, P.H, Hindu Social Organization. Popular Prakasham, Chennai, 1970.
 Singh, Yogendra, Modernization of Indian Tradition. Thompson Press, New Delhi, 1973.
 Srinivas, M.N., Social Change in Modern India. Allied Publishers, Chennai, 1970.
 Venugopal, Religion and Indian Society: A Sociological Perspective. Gyan Publishing house, New Delhi, 1999.
 Verma R.C. Indian Tribes through the Ages, Government of India Publication. 1995

WEB RESOURCES

<https://www.youtube.com/watch?v=Glb7oa3BSIo>(Hindu marriage- How is Hindu marriage done)

<https://www.youtube.com/watch?v=P8idvu5zJ8c> (The Caste system in India)

<http://voiceofdharma.org/books/imwat/ch6.htm> (Islamization of India)

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/IS13												
I	Course Title: SOCIOLOGY OF INDIAN SOCIETY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	2	1	3	3	3	2	1	2
CO 2	3	3	3	2	1	2	1	3	3	3	2	1	2
CO 3	3	3	3	2	1	2	2	3	3	3	3	1	2
CO 4	3	3	3	2	1	2	2	3	3	3	3	1	2
CO 5	3	3	3	2	1	2	2	3	3	3	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL GERONTOLOGY

CODE: 23SC/AC/SG15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce to the students, the field of Social Gerontology
- To explore the social aspects of aging
- To have a comprehensive insight into the problems of the aged
- To acquaint the students to the process of aging
- To appreciate the need for better quality of life for the older population.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define Sociology of Aging and list the scope of Social Gerontology	K1
CO2	understand Social Aspects of Aging from diverse Sociological Perspectives.	K2
CO3	identify the Social Issues of the Aged.	K3
CO4	examine the social needs and services for the elderly in our society	K4
CO5	evaluate the need for active and positive aging to create an inclusive society	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Social Gerontology 1.1 Definition 1.2 Evolution of Social Gerontology 1.3 Scope and Importance 1.4 Gerontology and Social Gerontology 1.5 Gerontology & Geriatrics.	K1- K5	12	1-5

UNIT	CONTENT	CL	HRS	CO
2	Theories of Aging 2.1 Biological Theories 2.2 Psychological Theories 2.3 Sociological Theories 2.3.1 Disengagement Theory 2.3.2 Activity Theory 2.3.3 Subculture Theory 2.3.4 Social Exchange Theory 2.3.5 Conflict Theory 2.3.6 Age Stratification Theory.	K1-K5	15	1-5
3	Understanding the aged 3.1 Dimensions of ageing 3.1.1 Demographic Aspects 3.1.2 Physical Aspects 3.1.3 Social Aspects 3.2 Support systems for the aged 3.2.1 Family 3.2.2 Relatives / Kin 3.2.3 Friends 3.2.4 Religion 3.3 Institutional Care .	K1-K5	12	1-5
4	Problems of the Aged 4.1 Health and Social determinants of Health 4.2 Housing 4.3 Employment 4.4 Retirement 4.5 Exploitation 4.6 Problems of the aged Women 4.7 Institutionalisation of the Care of the Aged	K1-K5	13	1-5
5	Re-examining the concept of the aged 5.1 Old age Programmes 5.2 Social Legislations in India 5.3 Global Aging, Positive Aging 5.4 Future of Ageing 5.5 Field Visit	K1-K5	13	1-5

BOOK FOR STUDY

Bali, P. Arun, Understanding Greying People of India. Inter India Publication, New Delhi, 1999.

Bai, Thara. L., Ageing Indian Perspectives. Decent Books, New Delhi, 2002.

Harris, K. Diana, The Sociology of Aging. Rawaat Publications, New Delhi, 2020

Dale Dannefer and Chris Phillipson, The SAGE Handbook of Social Gerontology. SAGE Publications, 2010.

BOOKS FOR REFERENCE

Arthur. N. Schwartz and Anne Fonner, Introduction to Gerontology. Holt: Rinehart and Winston, New York, 1979.

David Repetto (editor) Aging, 7th Edition, Sage Publication, New Delhi, 2012

Hooyman Nancy R., Kiyak Asuman, Social Gerontology: a multidisciplinary perspective, New York, 1988

Kunkel, Suzanne, Leslie Morgan, Ageing: The Social Context. Sage Publications, California 1998.

Loethur, Herman. J., Problems of Ageing, Sociological & Social Psychological Perspectives. Dickenson Publishing Company. Inc., California, 1967.

Mc Clymont, Mary. Silvea Thomas Michael J. Denham, Health Visiting and the Elderly, Longman Group UK Limited, U.K., 1986.

Rajan, S. Irudaya, Mishra, Sarkara Sharma P. India's Elderly: Burden or Challenge. Sage Publication, New Delhi, 1999.

Russel A. Ward, The Ageing Experience: An Introduction to Social Gerontology. JB Lippincott Company, New Delhi, 1979.

Sharma M.L. and T.M. Dale, Ageing in India, Challenge for Society. Ajantha Publications, New Delhi. 1987

Tournier, Paul, Learning to Grow Old. SCM Press Ltd. London, 1973

JOURNAL

The Gerontologist, The Gerontological Society of America, The Oxford Academic

WEB RESOURCES

Introduction: Critical Perspectives in Social Gerontology-Jan Baars, Dale

Dannefer,Chris Phillipson and Alan Walker <https://www.baywood.com/intro/358-5.pdf>

Study of the Life Course: Implications of Social Gerontology-Dale Dannefer and Richard.A.Settersten

<http://health.oregonstate.edu/sites/default/files/hallie-ford/pdf/biblio/the-sage-handbook-of-social-gerontology-chapter-1.pdf>

Understanding the Ageing Population of the World

<https://www.youtube.com/watch?v=x4r0S5qoIXc>

UN report into Ageing in developing countries. BBC News night report-2008 <https://www.youtube.com/watch?v=EY0AvDhqeN8Components>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Field Visit / Report Submission / Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out of 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/AC/SG15												
I	Course Title: SOCIAL GERONTOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	2	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	2	3	2	3	3	2	3
CO 3	2	3	2	2	3	2	2	3	3	3	3	3	2
CO 4	3	2	3	2	3	3	2	3	2	2	3	2	3
CO 5	2	3	3	3	2	3	2	2	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23SC/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23SC/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group discussions
- Group presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF SOCIOLOGY II

CODE:23SC/MC/PS24

CREDITS:4

L T P :4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the students to the basic concepts in Sociology.
- To acquaint the students with the discipline as a social science.
- To initiate a Sociological imagination of the society.
- To identify social change and its impact on society.
- To appraise social control mechanism and social construct of deviance and crime.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to :

COs	DESCRIPTION	CL
CO1	define and identify concepts and knowledge of sociology to understand society	K1
CO2	compare and classify forms of stratification, inequality and critically analyse social mobility.	K2
CO 3	describe various social processes, institutions and its functions that are related to social structure and institutions.	K3
CO4	examine the social control forces that shape individual behaviour and choices.	K4
CO5	evaluate progress, development and evolution of society and its impact on everyday society.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Social Stratification 1.1 Theories 1.1.1 Marxists 1.1.2 Functionalists 1.2 Systems of Stratification 1.2.1 Slavery 1.2.2 Estate 1.2.3 Caste 1.2.4 Class 1.2.5 Gender	K1- K5	14	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Social Mobility 2.1 Definition 2.2 Types: 2.2.1 Individual Mobility 2.2.2 Structural Mobility 2.2.3 Vertical Mobility 2.2.4 Horizontal Mobility 2.2.5 Inter-generational Mobility 2.2.6 Intra generational Mobility 2.2.7 Exchange Mobility 2.3 Factors affecting Social Mobility 2.4 Theory of Social Mobility: Pitrim Sorokin	K1-K5	13	1-5
3	Social Process 3.1 Cooperation 3.2 Accommodation 3.3 Assimilation 3.4 Competition 3.5 Conflict.	K1-K5	12	1-5
4	Social Control 4.1 Definition 4.2 Mechanisms of social control 4.2.1 Folkways 4.2.2 Norms 4.2.3 Mores 4.2.4 Values 4.2.5 Morality 4.2.6 Religion 4.2.7 Convention 4.2.8 Fashion 4.2.9. Public Opinion 4.2.10 Laws	K1-K5	12	1-5
5	Social Change 5.1 Concepts of social change 5.2 Evolution, development and progress 5.3 Factors of social change 5.4 Theories of social change– 5.4.1 Marxist 5.4.2 Evolutionary 5.4.3 Cyclical 5.4.4 Functional	K1-K5	14	1-5

BOOK FOR STUDY

Giddens Anthony, Duneir Mitchel, Applebaum, Richard P, Carr Deborah, Introduction to Sociology, Norton & Company INC, Newyork.,2018

Nathan Rousseau, Society Explained : An Introduction to Sociology, Rowman and Littlefield, Lanham, Maryland, 2014.

Plummer Ken, Sociology The Basics, Routledge, Third Edition, New York, 2022

Stolley Kathy, The Basics of Sociology, Greenwood Press, Westport, USA, 2005

Tischler L.Henry, Introduction to Sociology, Thomson, Wadsworth.,2007

BOOKS FOR REFERENCE

Caplow, Theodore, *Elementary Sociology*. New Jersey: Prentice Hall Inc. 1971
Duncan, O.D & Mitchell, R., *A New Dictionary of Sociology*. London: Routledge Kegan Paul, 1979.
Inkeles, Alex, *Foundations of Modern Sociology*. New Jersey : Prentice Hall, ,1982.
Ogburn, W.F. & Nimkoff, M. F., *A Handbook of Sociology*. New Delhi: Eurasia Publishing House, 1966.
Robertson, Ian, *Sociology*. New York, Worth Publishers, Inc., 1977.

WEB RESOURCES

<http://www.sociosite.net/>

JOURNALS

<http://www.inoso.org/>
<http://www.jsswnet.com/>
http://www.sagepub.com/upm-data/45619_4.pdf
<http://www.asanet.org/>
<http://www.britisoc.co.uk/>
<http://www.sociology.org/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Assignments

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/PS24												
II	Course Title: PRINCIPLES OF SOCIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	3	3	3	2	1	3
CO 2	3	3	3	3	2	2	2	3	3	3	2	1	3
CO 3	3	3	3	3	2	2	2	3	3	3	2	1	3
CO 4	3	3	3	3	2	2	2	3	3	3	2	1	3
CO 5	3	3	3	3	2	2	2	3	3	3	2	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

DEVELOPMENT OF INDIAN SOCIOLOGICAL THOUGHT

CODE: 23SC/MC/DI24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the historical development of Indian Sociology.
- To familiarize the students with Indian Sociologists and their theoretical contributions in the field of Indian Sociology
- To critically analyse the perspectives in Indian Sociological Thought.
- To engage in multiple discourses in Indian Sociological Thought
- To explore how different concepts in Indian Sociological Thought are congruent to empirical examples.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define theoretical concepts in Indian Sociological Thought	K1
CO2	compare and Contrast the basic theoretical perspectives, approaches and methodologies in Indian Sociological Thought	K2
CO3	apply the Indian Sociological Perspectives to Indian Social Events	K3
CO4	analyse the relevance of Indian Sociological Perspectives to the changing dimensions of contemporary Indian Society	K4
CO5	critically analyse the theoretical perspectives in Indian Sociological Thought	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Historical Development of Sociology in India 1.1 Stages of development of Sociology in India- Proto- Professional, Professional and Diagnostic Stage 1.2 Historical Perspectives- D.D.Kosambi 1.3 Indian Sociological Research Methods, Fieldwork in India, Discourses and future Directions	K1- K5	15	1-5

UNIT	CONTENT	CL	HRS	CO
2	G S Ghurye 2.1 Meaning: Caste and Kinship, Scheduled Tribes 2.2 National Unity and Integration 2.3 Rural- Urban community	K1-K5	12	1-5
3	M N Srinivas 3.1 Dominant Caste 3.2 Social Change in Modern India 3.3 India's villages	K1-K5	12	1-5
4	A.R Desai 4.1 Social Background of Indian Nationalism 4.2 Transformation of Indian Society 4.3 Peasant Struggles	K1-K5	12	1-5
5	Yogendra Singh 5.1 Modernization of Indian Tradition 5.2 Social Stratification and Change 5.3 Cultural Change in India	K1-K5	14	1-5

BOOK FOR STUDY

Nagla, B.K ,Indian Sociological Thought, Rawat Publications. 2008

Nagla,B.K, Indian Sociology: Theories, Domains and Emerging Concerns, Springer,2023

Oommen, T.K. and P.N.Mukerjee, Indian Sociology: Reflections and Introspections, Mumbai: Popular Prakashan. 1986

Srinivas, M.N., "The Caste System in India", in A. Béteille (ed.) Social Inequality: Selected Readings, Harmondsworth: Penguin Books, Pp.265- 272.1969

Srinvas, M. N., The Dominant Caste and Other Essays, Delhi: Oxford University Press, Pp.20-59.1987

BOOKS FOR REFERENCE

Atal, Yogesh, "Sociology in the Indian Campus", in Giri Raja Gupta (ed), Main Currents in Indian Sociology (Vol.1), New Delhi: Vikas, pp.117-31.1976.

Das, Veena .“Sociological Research in India: The State of Crises”, Economic and Political Weekly, XXIX (10), March 5:575-576. 1993.

Kosambi, D.D. .“Brahman Clans”, Journal of the American Oriental Society, 73:202-208. 1953

Mukherjee, Ramakrishna “ Indian Sociology: Historical Development and Present Problems”, Sociological Bulletin, Volume 22, Issue 1: 29-58 .1973

Panini,M.N and M.N.Srinivas “ Development of Sociology and Social Anthropology in India”, Sociological Bulletin, Volume 22, Issue 2 : 179-215. 1973

Singh, Yogendra (1986), Indian Sociology: Social Conditioning and Emergent Concerns, New Delhi: Vistaar. 1986.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Assignment / Presentation/ Quiz

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SC/MC/DI24												
II	Course Title: DEVELOPMENT OF INDIAN SOCIOLOGICAL THOUGHT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	2	2	2	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	2	3	2	3
CO 5	2	3	3	3	2	3	3	2	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL ANTHROPOLOGY

CODE: 23SC/AC/SA25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the students to the basic concepts in Social Anthropology
- To familiarize students with the social cultural evolution of society
- To detail the interconnectedness of the social, historic, economic, political, and cultural aspects of society
- To make the students comprehend the primitive practices and beliefs.
- To appreciate multi-cultural traditions, practices and their differences and similarities

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define concepts related to Social Anthropology	K1
CO2	understand the premises of society and its evolution	K2
CO3	identify the differences between primitive and modern society	K3
CO4	examine critical perspectives of primitive beliefs, practices and traditions.	K4
CO5	evaluate the interconnectedness between Anthropology and Sociology	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Definition and Scope 1.2 Social and Cultural Anthropology 1.3 Anthropology and its subfields 1.4 Social Anthropology and Other Social Sciences 1.5 Culture Traits - Culture Area - Processes of Cultural Change - Civilization.	K1- K5	14	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Marriage and Family 2.1 Monogamy, Polygamy, Polygyny, Polyandry 2.2 Kinship Terms, Classificatory and Descriptive System of Kinship 2.2.1 Kinship Usages 2.3 Family - Types, functions, changing patterns of family. 2.4 Patterns of residence, patterns of descent and authority 2.5 Patterns of inheritance	K1-K5	14	1-5
3	Anthropology of Religion 3.1 Definition of Primitive Religion 3.2 Difference between Magic, Religion and Science 3.3 Totem and Taboo, Sacred and Profane 3.4 Theories: Animism, Naturalism and Manaism	K1-K5	12	1-5
4	Economic Anthropology 4.1 Modes of production 4.2 Exchange System and Barter system 4.2.1 Ceremonial Exchange 4.2.2 Reciprocity and Redistribution 4.3 Market, Money and Trade	K1-K5	13	1-5
5	Political Anthropology 5.1 Meaning and Concept – Nature and Forms of Political Organisation 5.2 Structure in Primitive Government in Tribal Societies 5.3 Primitive Law- Distinction between customs and laws- Social Sanctions in primitive law 5.4 Justice and Punishment in Primitive Societies- Ideas of Solidarity	K1-K5	12	1-5

BOOK FOR STUDY

Beals , R. and Hoijer, H, Introduction to Anthropology, Macmillan, New Delhi, 1953
republished as Ebook, 2017.

Carol R. Ember, Melvin Ember, Anthropology – A Brief Introduction, New Jersey: Prentice Hall, 2020.

Nigel Rapport and Joanna Overing, Social and Cultural Anthropology, the key concepts, Routledge Publishers, London, 2000.

BOOKS FOR REFERENCE

Basu Indrani, Anthropology the study of man, S.Chand and Company Ltd, New Delhi, 2013.

Herskovits F Melville, Cultural Anthropology, Oxford & IBH Publishing Co, Kolkata, 2018.

Jha, Makhan., An Introduction to Social Anthropology, Vikas Publishing House, Mumbai, 2003.

Lowie R.H., Primitive Society, Routledge Publishers, London 2015.

Majumdar D. N, and Madan T. N, An Introduction to Social Anthropology. Asia Publishing House, 2022.

Mathew Engelke, A Pelican Book: Anthropology, Pelican, United States, 2017.

Nadeem Hasnain, Indian Anthropology, Palakan Prakasan Publishers, Kolkata, 2021

Sahay K.N, Social Anthropology in India: Common Wealth Publication, New Delhi, 1999.

Singh K.S, The History of the Anthropological Survey in India: Anthropological Survey of India, Kolkata, :1991

WEB RESOURCES

www.youtube.com/watch?v=-_The Most Primitive Tribe of the Planet.

<https://vimeo.com/channels/Thekoyas> Part-I and II and Tribal Displacement-A Visual Anthropology by Sathya Mohan,

<https://www.youtube.com/watch?v=58Yo-LmRfJQ> Toda tribes of India

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/ Assignments

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/AC/SA25												
II	Course Title: SOCIAL ANTHROPOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	3	3	2	1	2
CO 2	3	3	3	2	2	2	2	3	3	3	3	1	2
CO 3	3	3	2	2	2	2	2	3	3	3	2	1	2
CO 4	3	3	3	2	2	2	2	3	3	3	2	1	2
CO 5	3	3	3	2	2	2	2	3	3	3	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.V.A. /B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

DEVELOPMENT OF SOCIOLOGICAL THOUGHT

CODE: 23SC/MC/DS34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarise the students with the historical emergence of Sociology
- To expose students to the key ideas of the founding thinkers of the discipline
- To critically analyze the theories of Sociological Thought
- To understand the contemporary relevance of Classical Sociological Thought
- To evaluate the critical discourses in the growth of Classical Sociological Thought

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define theoretical concepts in Classical Sociological Thought	K1
CO2	compare and Contrast the theoretical propositions in reference to a particular social phenomenon	K2
CO3	apply theoretical contributions of Classical Sociologists to social events	K3
CO4	analyze the relevance of Classical Sociological Thought to the changing dimensions of contemporary Society	K4
CO5	critically analyze and evaluate the social context of the period in which Classical Sociological Thought emerged	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	History of Social Thought 1.1 Pre-Comteian thought - Emergence of Sociology as a distinct discipline 1.2 Auguste Comte 1.3 Positivism 1.4 Theory of Evolution and Progress 1.5 Social Statics and Social Dynamics 1.6 Hierarchy of Sciences	K1- K6	15	1-5

UNIT	CONTENT	CL	HRS	CO
2	Herbert Spencer 2.1 Social Darwinism 2.2 The Evolutionary Theory 2.3 The Organismic Analogy	K1-K6	13	1-5
3	Emile Durkheim 3.1 Sociology as the study of Social Facts 3.2 Mechanical and Organic Solidarities 3.3 Division of Labour 3.4 Theory of Suicide 3.5 Sociology of Religion	K1-K6	13	1-5
4	Karl Marx 4.1 Dialectical and Historical Materialism 4.2 Theory of Class Struggle 4.3 Alienation	K1-K6	12	1-5
5	Max Weber 5.1 Ideal Type and Verstehen 5.2 Study of Social Action 5.3 Types of Authority 5.4 Religion- Protestant Ethic and Spirit of Capitalism 5.5 Bureaucracy	K1-K6	12	1-6

BOOKS FOR STUDY

Abraham Francis, John Henry Morgan, *Sociological Thought*. Cambridge: Macmillan India Ltd, 2018.
George Ritzer, Jeffrey Stepnisky, *Sociological Theory*. Sage Publications, 2021
Haralambos, Michael (with Robin Heald), *Sociology: Themes and Perspectives*. Bombay, Delhi: Oxford University Press, 2000.

BOOKS FOR REFERENCE

Aron, Raymond and Manent, Pierre, *Main Currents in Sociological Thought*. Volume 1 and 2. Routledge (Classics), 2018.
Calhoun, Craig et.al., *Classical Sociological Theory*. John Wiley and Sons Ltd, 2022
Coser, Lewis, A., *Masters of Sociological Thought: Ideas in Historical and social context*. Waveland Pr Inc., 2003
Loyal, Steven and Malesevic, Sinisa, *Classical Sociological Theory*. London, Sage Publications, 2020

WEB RESOURCES

http://www.sagepub.in/upm-data/44172_1.pdf
[http://theory.routledgesoc.com/category/profile-tags/ideal-](http://theory.routledgesoc.com/category/profile-tags/ideal-types)
[types http://faculty.frostburg.edu/phil/forum/Marx.htm](http://faculty.frostburg.edu/phil/forum/Marx.htm)

JOURNAL

<http://www.jstor.org/discover/10.2307/2779049?sid=21105950089033&uid=62&uid=3&uid=308734711&uid=2&uid=308734551&uid=67&uid=3738256>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Assignment / Presentation/ Quiz

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC DS34												
III	Course Title: DEVELOPMENT OF SOCIOLOGICAL THOUGHT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	1	1	3	3	2	1	1
CO 2	3	3	2	2	1	1	1	2	2	3	3	2	2
CO 3	3	3	2	2	1	1	2	2	2	2	3	3	2
CO 4	3	3	3	2	2	1	2	2	3	2	3	3	2
CO 5	3	3	3	2	2	1	2	2	2	2	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL RESEARCH AND SOCIAL STATISTICS

CODE:23SC/MC/SR34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to fundamentals of social research and statistics
- To acquaint students to tools of data collection and analyses
- To familiarise stages of research process
- To introduce basic statistical tools
- To enable report writing skills

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic concepts in research and statistics	K1
CO2	compare different research and statistical methods	K2
CO3	develop research skill and report writing skill	K3
CO4	analyse different methods appropriate to research aims and objectives	K4, K5
CO5	develop research proposal and choose appropriate methods for data collection and statistical tools to analyse and present research results	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Social Research 1.1 Definition and Meaning of Social Research 1.2 Characteristics of Social Research 1.3 Uses of Social Research 1.4 Types of Social Research	K1- K4	11	1
2	Steps in Social Research and Basic Terms 2.1 Formulating the research problem 2.2 Research Design-qualitative and quantitative 2.3 Review of Literature 2.4 Variables and Hypothesis 2.5 Data collection and Analysis	K1-K4	13	1-5

3	Sampling and Tools of Data Collection 3.1 Population Definition 3.2 Sampling –Definition 3.2.1 Probability Sampling 3.2.2 Simple Random Sampling 3.2.3 Stratified Sampling 3.2.4 Quota Sampling 3.2.5 Cluster Sampling. 3.3 Non-Probability- 3.3.1 Convenient 3.3.2 Judgmental Sampling. 3.4 Tools of Data collection 3.4.1 Questionnaire 3.4.2 Interview 3.4.3 Observation.	K1-K6	15	1-5
4	Introduction to Statistics 4.1 Meaning, Definition, and relevance of Statistics. 4.2 Introduction to levels of measurement, Statistical Tools. 4.3 Classification of Data: Discrete and Continuous series 4.4 Class Limits, Class Intervals, Class Frequency, Mid-points, Simple Frequency, Cumulative Frequency	K1-K6	14	3
5	Tabulation and Diagrammatic representation of data and Report writing 5.1 Types of tables, Parts of a table, Functions of tables. 5.2 Diagrams: Bar diagram, Pie-diagram. 5.3 (Pre-requisites) Measures of Central Tendency: Mean, Median & Mode and Mean Deviation and Standard Deviation. 5.4 Measures of Dispersion: Range, Quartile, Deciles and Percentiles. 5.5 Report writing and characteristics of a good report.	K1-K6	12	5

BOOK FOR STUDY

Gupta, S.P. Statistical Methods. New Delhi: Sultan Chand and Co. Ltd., 2004.

O'Leary, Zina, The Essential Guide to Doing Research. London: Sage Publications, 2004.

BOOKS FOR REFERENCE

Alan Bryman, Social Research Methods, New Delhi, Oxford 2009

Arora, P.N, Sumeet Arora and S. Arora, Comprehensive Statistical Methods. New Delhi: S. Chand and Company Ltd., 2007

Babbie, E.R. Practising Social Research, California: Wadsworth Publishing Company, 2001.

Bryman Alan, Social Research Methods. New Delhi: Oxford University Press, 2014.

Ethance, D.N. Practical Problems in Statistics. New Delhi: Kitab Mahal, 2004.

Ellis, Lee, Research Methodology, A Step-by-Step Guide for Beginners. London: Sage Publications, 1994.

Kothari C.R., Research Methodology - Methods and Techniques, New Delhi: Wiley Eastern Ltd. 1985.

Sarantakos S Social research, New Delhi, Harvard Business School Press 2005

Singleton Royce, Bruce C. Straits and Margaret M. Straits and Ronald J. McAllister, Approach to Social Research, New York: Oxford University Press, 1988.
 Tripathi, P.C., A Textbook of Research Methodology in Social Sciences. New Delhi: Sultan Chand & Sons, 2005.

WEB RESOURCES

http://onlinestatbook.com/2/summarizing_distributions/measures.html

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Quiz & Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/SR34												
III	Course Title: SOCIAL RESEARCH AND SOCIAL STATISTICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	1	1	1	3	3	2	3	3
CO 2	3	3	2	3	2	2	1	2	2	2	2	2	3
CO 3	3	3	2	3	2	2	1	2	3	3	3	3	3
CO 4	3	3	2	3	2	2	1	2	3	3	2	2	3
CO 5	3	3	3	3	2	2	1	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF GENDER

CODE: 23SC/AC/GE35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To inculcate a thorough understanding of gender and related concepts.
- To initiate critical understanding of the dynamic society and reflections of gender issues.
- To relate and reflect to the gendered self, through the sociological lens in understanding gender disparity.
- To make the students comprehend the structure of gendered institutions.
- To appreciate newer policy towards gender equality.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and understand the concepts of gender, identity, roles and stereotypes	K1
CO2	understand the role of individual, societal structures and gender socialisation through the sociological lens	K2
CO3	identify institutionalised gender discrimination and develop on the ideas of gender and justice	K3
CO4	examine societal concerns around gender disparity and its reflections	K4
CO5	evaluate and appraise the contemporary changes of normalised cis-heteronormative society	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Sex and Gender 1.2 Types of Gender 1.3 Gender and Stereotyping and Gender Discrimination 1.4 Objectification 1.5 HDI and Gender Disparity	K1- K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Theoretical Perspectives on Gender Roles 2.1 Functionalist, Conflict and Social Interactionist 2.2 Feminist Approaches 2.2.1 Liberal 2.2.2 Marxist, 2.2.3 Socialist 2.2.4 Radical Perspectives 2.3 Third World Women's Voices Theories of Aging	K1-K5	15	1-5
3	Gender: Family and Economy 3.1 Gender role: Socialisation and formation of identity 3.2 Gender and Division of Labour 3.3. Gender Stereotyping in work place 3.4. Occupational Segregation and wage discrimination	K1-K6	12	1-5
4	Gender Political and Law 4.1. Gender representation in Contemporary Indian Politics 4.2 Gender exclusion in Politics 4.3 Gender and Personal Law 4.4 Social Legislations	K1-K6	12	1-5
5	Gender Dynamics 5.1 Patriarchy and Gender Power 5.2 Gender and Caste 5.3 Gender and Class 5.4 Gender and Disability	K1-K6	13	1-5

BOOK FOR STUDY

Jackson, S., & Scott, S. (Eds.). Gender: A sociological reader. Psychology Press, USA and Canada, 2002

Linda L Lindsey, Gender Roles, A Sociological Perspective, Routledge Taylor and Francis Group, UK, 2014

Pilcher, J., & Whelehan, I. 50 key concepts in gender studies. Sage. 2004.

BOOKS FOR REFERENCE

Chakravarti, Uma, Gendering Caste through a feminist lens, Stree Publication, Kolkata, 2003.

Dijkstra Geske, Gender and economics. A European perspective, Rutledge, London, 2020.

Dines Gail, Gender, Race and Class in Media. A Text-Reader, Sage Publication, New Delhi, 2003

Geetha V, Gender. Theorizing feminism, Stree Publication, New Delhi, 2002

Menon Nivediya, Gender and Politics in India, New Delhi, Oxford University Press, 2000.

Rao Anupama, Gender and Caste, Kali for women, New Delhi, 2003.

Vivar, M. T. H. Framing intersectionality: Debates on a multi-faceted concept in gender studies. Routledge, London, 2016

WEB RESOURCES

<https://othersociologist.com/sociology-of-gender/>

<https://www.oxfordreference.com/display/10.1093/oi/authority.20110803095846541>

<https://www.youtube.com/watch?v=C63Xn--i13o> gender identity

<https://www.youtube.com/watch?v=G3Aweo-74kY> occupational segregation

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50
Seminar/Magazine Review/Assignment/Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/AC/GE35												
III	Course Title: SOCIOLOGY OF GENDER												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	1	2	3	2	2	2	3
CO 2	3	3	3	3	3	2	2	3	3	3	3	3	3
CO 3	3	3	3	3	3	2	2	3	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23SC/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGICAL THEORY

CODE:23SC/MC/ST44

CREDITS: 4

L T P:4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarise students to the place of theory in Sociology
- To understand fundamental principles of schools of sociological theory
- To enable a theoretical orientation towards the discipline
- To develop understanding and critical assessment of sociological theory
- To enable students to understand issues through applications of theoretical framework.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	define and understand basic concepts and theoretical perspectives in sociology and how they are used in sociological explanations of social behavior	K1
CO2	apply sociological concepts and theories to understand contemporary social issues and debates about these issues	K2, K3
CO 3	identify and explain major sociological theories and apply them to everyday life	K4,K5
CO4	examine understand the ways in which sociological theories and methods are used outside of academic settings in the practice of sociology and the production of positive social change	K5,K6
CO5	evaluate theory with relevance to reality	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Meaning of Sociological Theory 1.2 Types of Theories 1.3 Functions of theories 1.4 Elements of theories	K1- K5	11	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Functionalism 2.1 Assumptions of Functionalism 2.2 Talcott Parsons 2.2.1 The Structure of Social Action 2.2.2 Theory of Social System 2.2.3 Pattern variables 2.3 R.K. Merton: Merton's Functional Analysis 2.3.1 Theory of Deviance 2.3.2 Role Theory	K1-K5	15	1-5
3	Conflict Theory 3.1 Assumptions of Conflict theory 3.2 Karl Marx 3.2.1 Dialectics 3.2.2 Theory of Class, Alienation and Social Change 3.3 Ralf Dahrendorf 3.3.1 Power and Authority 3.3.2 Social Stratification	K1-K6	15	1-5
4	Symbolic Interactionism 4.1 Assumptions of Symbolic Interactionism 4.2 Charles H.Cooley 4.2.1 The Organic view of society, 4.2.2 Looking Glass Self 4.2.3 Primary Groups 4.3 G.H. Mead 4.3.1 Society 4.3.2 The Act 4.3.3 Gestures 4.3.4 Significant Symbols 4.3.5 Self	K1-K6	14	1-5
5	Exchange Theory 5.1 Assumptions of Exchange Theory 5.2 George Homans 5.2.1 The Principles of Human Behaviour 5.3 Peter Blau 5.3.1 Social Exchange and Power	K1-K6	10	1-5

BOOK FOR STUDY

Haralambos M, Martin Holborn, Sociology: Themes and Perspectives, Eight Edition, UK, Harper Collins, 2013

Turner, Jonathan J, Handbook of Sociological Theory, Springer, 2006

Ritzer George, Sociological Theory, 8th ed, McGraw -Hill, 2010

BOOKS FOR REFERENCE

Abraham Francis M, Modern Sociological Theory - An Introduction. Chennai, Oxford University Press, 1982

Turner, Jonathan J, The Structure of Sociological Theory, Seventh Edition, California, Wadsworth, 2002

Wallace A Raith, Alison Wolf, Contemporary Sociological Theory - Continuing the Classical tradition, 6th Edition, New Jersey, Prentice Hall, 2005

WEB RESOURCES

<http://www.suu.edu/faculty/ping/pdf/KARLMARXANDMARXISM.pdf>

<http://www.csun.edu/~hbsoc126/soc1/The%20Looking%20Glass%20Self.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Assignments

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/ST44												
IV	Course Title: SOCIOLOGICAL THEORY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	2	3	3	3	3	1
CO 2	3	3	3	3	2	2	3	3	3	3	3	3	1
CO 3	3	3	3	3	2	2	3	3	3	3	3	3	2
CO 4	3	3	3	3	2	3	3	3	3	3	3	3	2
CO 5	3	3	3	3	2	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF DEVELOPMENT

CODE: 23SC/MC/SD44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To learn the dominant schools in Sociology of Development
- To critically analyze the issues of Development
- To understand Sociology of development in Indian Context
- To facilitate students to engage in development discourses in public sphere
- To enable students to critically explore the dimensions of state-development nexus.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and understand the meaning and scope of sociology of development	K1
CO2	illustrate theoretical dimensions of development and underdevelopment	K2
CO3	apply development perspectives to social reality	K3
CO4	critically analyze the diverse development processes and development paradigms	K4, K5
CO5	propose development interventions to critical socio-economic issues	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Development- An Overview 1.1 Meaning of Development and Concept of Development 1.2 Colonial Legacies and Imperialism 1.3 Origins of Capitalism, Development in First World and Third World 1.4 Trans-nationalization and Return of Underdevelopment	K1- K6	10	1-5
2	Theories in Sociology of Development 2.1 Modernization Theory 2.2 Dependency and World-Systems perspectives on Development 2.3 Alternatives in Development- Gunnar Myrdal; E.F.Schumacher; Amartya Sen; Gandhiji 2.4 Critique of Development	K1-K6	15	1-5
3	State and Market 3.1 Development as Freedom and Democracy 3.2 Agencies of Development- State, Capitalism and Market 3.3 Globalization and Information age 3.4 Micro-politics of Development- Communities, Power and Subaltern Movements	K1-K6	13	1-5
4	Sociology of Development in India 4.1 India as a Developing Economy 4.2 Diversity, Role of global institutions and development in India 4.3 Future Directions in Sociology of Development in India	K1-K6	12	1-5
5	Contemporary Issues and Concerns 5.1 Poverty and Development 5.2 Food Security, Health and Development 5.3 Environment and Development 5.4 Alternative Development and Development Projects	K1-K6	15	1-5

BOOK FOR STUDY

Appadurai, Arjun. *Modernity at Large: Cultural Dimensions of Globalization*. New Delhi: OUP, 1997.

Amin, Samir. *Unequal Development*. New Delhi: OUP, 1979.

Bryan R. Roberts et.al., *The Sociology of Development*. Edward Elgar Publishing Ltd, 1995

Despande, Satish. *Contemporary India: A Sociological View*, Penguin, 2003

Ghosh, Biswajit. *Interrogating Development: Discourses on Development in India Today*. Rawat Publications, 2012

N. Jayram and D. Rajasekhar. *Vulnerability and Globalisation: Perspectives and Analysis from India*. Rawat Publications, 2012

Parodi, G. and Sciulli, D. *Social Exclusion: Short and Long Term Causes and Consequences*. Heidelberg: Springer Publications, 2012

Singh, Sheobahal. *Sociology of Development*. Rawat Publications, 2010.

BOOKS FOR REFERENCE

Andrew, W. *Introduction to the Sociology of Development*. New Jersey: Humanities Press International. 1984

Apter, D. E. *Rethinking development: Modernization, dependency, and postmodern politics*. Newbury, California: Sage. 1987

Dereze, Jean and Amartya Sen. *India: Economic Development and Social Opportunity*. New Delhi: OUP, 1996.

Frank, A.G. *Re-Orient: Global Economy in the Asian Age*. Berkeley: University of California Press, 1998

Harrison, D. *The Sociology of Modernization and Development*. New Delhi: Sage, 1989.

Larrain, J. *Theories of development: Capitalism, colonialism, and dependency*. New York: Blackwell. 1989

Pieterse, J.N. *Development Theory: Deconstructions/ Reconstructions*. New Delhi: Vistaar Publications. 2001

Roxborough, I. *Theories of underdevelopment*, London: Macmillan. 1979

Webster, A. *Introduction to the sociology of development* (second edition). London: MacMillan. Willis, K. 2005

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	2 × 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1 × 10 = 10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1 × 10 = 10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1 × 10 = 10 (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Quiz / Assignment / Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out of 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/SD44												
IV	Course Title: SOCIOLOGY OF DEVELOPMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	2	3	2	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	2	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	2	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core offered by the Department of Psychology to
B.A. Sociology Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF SOCIAL PSYCHOLOGY

CODE: 23PY/AC/FS45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the basic concepts of social psychology
- To familiarize students on how attitudes can be formed and changed
- To demonstrate the influence of groups on cognition and behaviour
- To explore the various interpersonal prejudices and causal factors for aggression
- To explain factors leading to conformity and prosocial tendencies

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the influence of social contexts on thoughts, feelings and behaviours of an individual	K1
CO2	explain the processes underlying social cognition and social behaviours	K2
CO3	apply social psychological theories to interpret a range of human behaviours	K3
CO4	distinguish between diverse facets of social behaviour	K4
CO5	evaluate the factors leading to prosocial and antisocial biases	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Social Psychology 1.1 Meaning and Definition 1.2 Nature of Social Psychology and Scope of Social Psychology 1.3 Methods of study in Social Psychology – Experimental, Observation and Interview Methods	K1- K5	10	1-5
2	Attitudes 2.1 Definition and Nature of attitudes 2.2 Relationship between attitudes and behaviour 2.3 Formation of Attitudes 2.4 Attitude change, Persuasion, Cognitive dissonance	K1- K5	13	1-5
3	Behaviour in Groups 3.1 Overview of Social Influence and Social Cognition 3.2 Social Facilitation and Social Loafing 3.3 Group Polarization and Groupthink 3.4 Bystander Effect and Deindividuation	K1- K5	14	1-5

UNIT	CONTENT	CL	HRS	CO
4	Prejudice and Aggression 4.1 Definition and Nature of Prejudice 4.2 Causes of Prejudice: Social, Emotional and Cognitive factors 4.3 Discrimination, Stereotypes, Racism, Sexism 4.4 Definition and Types of Aggression, Theories and Management of Aggression	K1- K5	15	1-5
5	Conformity and Altruism 5.1 Definition of Conformity 5.2 Factors influencing Conformity 5.3 Altruism (Prosocial Behaviour) 5.4 Increasing Prosocial Behaviour	K1- K5	13	1-5

BOOKS FOR STUDY

Baron, Robert A., and Nyla R. Branscombe. *Social Psychology*. 14th ed., New Delhi, Pearson Education Limited, 2016.

Myers, David G., and Jean M. Twenge. *Social Psychology*. 14th ed., New York, McGraw-Hill Education, 2022.

BOOKS FOR REFERENCE

Kassin, Saul M., et al. *Social Psychology*. 11th ed., Boston, Cengage, 2021.

Fiske, Susan T., Daniel T. Gilbert, and Gardner Lindzey, eds. *Handbook of Social Psychology*. Vol. 1 & 2. New Jersey, John Wiley & Sons, 2010.

Gruman, Jamie A., Frank W. Schneider, and Larry M. Coutts, eds. *Applied Social Psychology: Understanding and Addressing Social and Practical Problems*. 3rd ed., New Delhi, SAGE Publications, 2017.

JOURNALS

Doaj.org

Journals of Psychology

APA Psychnet

Sage Journals

Pearson Journals

WEB RESOURCES

<http://bit.ly/OvercomeBiases>

https://bit.ly/Prejudice_PaulBloom

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/AC/FS45												
IV	Course Title: Fundamentals of Social Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	1	1	2	2	3	2	2	2	2
CO 2	3	2	3	3	2	2	3	3	3	2	3	3	2
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF MEDIA

CODE: 23SC/MC/SM54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce the students to concepts, types and effects in media
- To explain the power of advertisements in media
- To explain the socio- political dimension of media
- To acquaint the students with the concept of Alternative media and mobilisation
- To appraise the issues of representation of women and other marginalised sections in media

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Identify various types of media and audience	K1
CO2	Examine the importance of advertisement and influence of popular culture on society	K2,K3
CO3	Compare various approaches of media content at a socio- political level	K3,K4
CO4	Demonstrate the impact of social media in terms of online mobilisations	K4,K5
CO5	Investigate the role of media in terms of power relations such as representation of women and other minorities	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Media – Concept and Types 1.2 Functions of Mass Media 1.3 Effects of Mass Media on Individual, Society and Culture 1.4 Active vs Passive Audience 1.5 The Uses-effects Theory, Citizen Journalism	K1- K2	11	1-2
2	Media and Consumption 2.1 The Power of Advertising – Taste Cultures and Niche Markets 2.2 Advertising and Popular Culture – Fashions, Fads	K1-K4	11	1-4

UNIT	CONTENT	CL	HRS	CO
	2.3 Subcultures and the Media 2.4 The Uses-gratification Approach 2.5 Celebrity Industry – Personality as Brand, Hero Worship			
3	Media and Politics 3.1 Construction of Political reality 3.2 Media Industry and Ownership 3.3 Media as a Supporter and/or Watchdog of the State	K1-K6	10	1-5
4	Alternative Media and Mobilisation 4.1 Various Forms of Alternative Media -Village Puppetry - Street Theatre -Little Magazines 4.2 Community Radio and the Indian Farmer 4.3 Social Media and Mobilisation –online forms of Protest 4.4 Media Activism	K1-K6	10	1-5
5	Issues of Representation 5.1 Changing Representation of Women in the Media 5.2 Alternative Sexualities in the Media 5.3 Concerns of Under-representation of the North East in the Media 5.4 Gaze	K1-K6	10	1-5

BOOKS FOR STUDY

Shoemaker J Pamela, Mediating the Message in the 21st Century: A Media Sociology Perspective, Routledge Publication, 2014

Waisbord Silvio, Media Sociology : A Reappraisal, Rawat publications, 2017

BOOKS FOR REFERENCE

Berger, Arthur Asa, Ads, fads and consumer culture – Advertising’s Impact on American Character and Society. Lanham: Rowman and Littlefield, 2000.

Biocca, Frank, Opposing conceptions of the audience: The Active and Passive Hemispheres of Mass Communication Theory, 1988

Dyer, Richard, ‘Stereotyping’, In Meenakshi Durham and Douglas M. Kellner (eds.) Media and Cultural Studies: Keywords, Oxford: Blackwell, 2012

Dines, Gail and Jean M Humez (ed), Gender, Race and Class in Media: A text-Reader. California: Sage, 2003.

Srinivas, S.V. ‘Film Culture, Politics and Industry’, in seminar 525, pp.47-51, 2003

Johanna Blakley: Social media and the end of gender , 2011

Ross, Karen, (ed), The Handbook of Gender, Sex and Media. Sussex: Wiley Blackwell, 2012.

Turner, Graeme, Understanding Celebrity. UK: Sage, 2013

WEB RESOURCES

Alternative media

<http://fuchs.uti.at/wp-content/uploads/altmedia.pdf>

Street theatre

<http://www.bbc.co.uk/mediaaction/where-we-work/asia/india/sdp-community-mobilisation>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/SM54												
V	Course Title: SOCIOLOGY OF MEDIA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	2	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF CRIME AND VICTIMS

CODE:23SC/MC/CV54

CREDITS: 4

L T P:4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize the concepts and principles of Criminology and Victimology
- To understand various types of crimes and theories of crime
- To acquaint students the significance of locating victim at the centre of justice system
- To explain key concepts in victimology.
- To outline the patterns of victimization and its impacts.

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to :

COs	DESCRIPTION	CL
CO1	Define and explain the history, origin, scope, definition and types of crime, its relevance in the present scenario and its relation to other social sciences.	K1-K3
CO2	Review the concept of social learning and crime through its theories.	K3
CO 3	Describe historical development of victimology, causes and forms of victimisation and various key concepts.	K4
CO4	Apply the concepts of UN Declaration on Basic Principles of Justice for Victims of Crime and Abuse of Power in victim assistance and legal aid	K5
CO5	Evaluate victims position in criminal justice system and gain insight on the laws governing social issues	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Crime and Criminology 1.1 Definition 1.2 Meaning of Deviance, Crime and Criminals 1.3 Classification of Crime 1.4 Criminology its Nature and Scope 1.5 Causation of Crime: Classical and Contemporary Perspectives 1.5.1 Sociological Theories of Crime: Strain Theory, Social Learning Theory, Labeling Theory	K1- K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Victimology: Its Meaning and Scope 2.1 Victimology: Definition and Meaning 2.2 Nature and Scope- Rediscovery of Crime Victims. 2.3 Versions of Victimology 2.3.1 Special Victimology 2.3.2 General Victimology 2.3.3 Victimology of human rights violations.	K1-K5	15	1-5
3	Key concepts in Victimology 3.1 Victim 3.2 Victimization 3.3 Victim Reactions 3.4 Victim precipitation 3.5 Victim proneness, 3.6 Primary victimization 3.7 Secondary victimization, 3.8 Victim blaming 3.9 Victim vulnerability 3.10 Fear of crime 3.11 Victimless crimes	K1-K6	12	1-5
4	Victims of traditional crimes in India 4.1 Sati 4.2 Dowry 4.3 Victims of domestic abuse 4.4 Rape and Victims of abuse of power 4.5 Other kind of sexual harassment 4.6 Child Victims 4.7 Victims of hate crimes.	K1-K6	10	1-5
5	Victim Rights and Victim Assistance 5.1 Prevention of Crime Victimization 5.2 U. N Declaration of Basic Principles of Justice for Victims of Crime and Abuse of Power 5.3 Rights of Victims under the Indian Constitution 5.4 Victim and the Indian Laws 5.5 Victim Compensation	K1-K6	13	1-5

BOOK FOR STUDY

Siegel, L., Criminology: Theories, patterns, and typologies. Belmont, CA, Wadsworth Cengage Learning 2013.

Pond, R., Introduction to Criminology. Winchester: Waterside 1999.

Marsh, I, Theories of crime. London: Routledge, 2007

Ahuja, R, Social problems in India (3rd ed.). New Delhi: Rawat Publications, 2014

Burgess, A., Regehr, C., & Roberts, A, Victimology. Burlington, VA: Jones & Bartlett Learning, 2013

BOOKS FOR REFERENCE

Chockalingam, K, Readings in victimology. Chennai: Ravi Raj Publications, 1985.
Clevenger, S., Understanding victimology. New York: Routledge, 2018.
Dignan, J., Understanding victims and restorative justice. Maidenhead, England: Open University Press 2005.
Doerner, W., & Lab, S., Victimology (6th ed.). Amsterdam: Elsevier. Fattah, E. A. (1991). Understanding criminal victimisation. Scarborough: Prentice, Hall, 2012
Hall, M., Victims of crime: Construction, governance and policy. New York: Palgrave Macmillan, 2017
Karmen, A, Crime victims: An introduction to Victimology. Boston, MA: Cengage Learning 2012
Kirchhoff, G. F, What is victimology? Tokyo: Seibundo Publishing Co. Singh, C. (2010). Victims of crime: Their rights and human rights. New Delhi: Dwep & Deep Publications, 2005
Walklate, S, Handbook of victims and victimology. New York: Routledge, 2011
Wolhuter, L., Olley, N. & Denham, D, *Victimology: Victimisation and victim's rights*. London: Routledge-Cavendish, 2008

WEB RESOURCES

International Journal Of Criminal Justice Sciences- ISSN 0973-5089
World Society of Victimology - <http://www.worldsocietyofvictimology.org/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	2 x 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1x10=10 (Answer any 1 out of 2 questions with 500 words each)

Other Components:

Total Marks: 50

Case Studies/Report writing/Presentation/Quiz

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out of 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/CV54												
V	Course Title: SOCIOLOGY OF CRIME AND VICTIMS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	2	-	1	3	3	3	3	3
CO 3	3	3	3	3	3	2	1	3	3	3	3	3	3
CO 4	2	2	3	3	3	2	1	2	3	3	3	3	3
CO 5	3	2	3	3	3	2	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF ETHNIC RELATIONS

CODE: 23SC/MC/ER54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the concept of ethnicity
- To critically discuss ethnic issues of national and international significance
- To understand patterns of ethnic inclusion and ethnic exclusion through case studies
- To understand the contextual and relational dimensions of Ethnic relations
- To enable students to appraise the critical ethnic issues theoretically and empirically.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and understand the meaning of ethnicity and dimensions of ethnic identity	K1
CO2	illustrate the processes of migration and formation of diaspora in global context	K2
CO3	apply perspectives in ethnicity to crucial ethnic issues and ethnic concerns in the society	K3
CO4	analyze and evaluate the diverse theoretical approaches in the study of ethnicity in indian and global context with case examples	K4, K5
CO5	propose strategies for ethnic conflict prevention and mitigation	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning of Ethnicity 1.2 Ethnic Identity- Internal and External Boundaries 1.3 Social Construction of Ethnicity 1.4 Types of Ethnic Groups- Primary, Secondary, Minority, Majority, Young, Old 1.5 Meaning of Race and Racial Identity	K1- K6	13	1-5
2	Dimensions of Migration 2.1 Migration as an ethnic phenomenon- Push and Pull factors 2.2 Robin Cohen's Forms of Diaspora 2.3 Ethnic Enclaves 2.4 Xenophobia 2.5 Racial Profiling	K1-K6	13	1-5
3	Patterns of Social Exclusion and Ethnic Conflict 3.1 Ethnic Penalty in Labour Market 3.2 Ethnic Penalty in Housing 3.3 Ethnic Ghettoization 3.4 Ethnic Cleansing 3.5 Ethnic Genocide	K1-K6	13	1-5
4	Ethnicity and Politics of Identity 4.1 Ethnic Assimilation 4.2 Politics of Multiculturalism- Types of Multiculturalism 4.3 Perspectives on Ethnicity and Citizenship 4.4 Minority Rights 4.5 Immigration Policies and its Implications	K1-K6	13	1-5
5	Case Studies on Ethnic Relations 5.1 India- Ethnic Conflict in Manipur 5.2 Latin America- Indigenous Movements 5.3 South East Asia- Genocide in Tamil Eelam 5.4 Middle East- Syrian Civil War 5.5 North America- Canada (Ethnic Issues and Concerns) 5.6 Global Examples of Symbolic Ethnicity	K1-K6	13	1-5

BOOKS FOR STUDY

Cohen, Robert, Global Diasporas: An Introduction. (Second Revised Edition) London and New York: Routledge, 2008.

Giddens, Anthony and Phillip Sutton, Sociology. 7th Edition Polity Press: 2013.

Malesevic, Sinisa, The Sociology of Ethnicity. Sage Publications, 2004

BOOKS FOR REFERENCE

Murdock, G.P. (ed.). Social Structures in South-East Asia, London: Tavistock.1961. Oommen, T K, Citizenship, Nationality and Ethnicity. Cambridge: Polity Press, 1997. Phadnis, Urmila and Rajat Ganguly, Ethnicity and Nation Building in South Asia. Sage, 2001. Telles, Edward, Pigmentocracies: Ethnicity, Race and Colour in Mexico. University of North Carolina Press, 2014. Wolff, Stefan, Ethnic Conflict. Oxford University Press, 2006. Yinger, J M, Ethnicity Source of Strength? Source of Conflict. Jaipur: Rawat, 1997.

JOURNALS

Kingsbury, Post-colonial states, ethnic minorities and separatist conflicts: case studies from Southeast and South Asia. Ethnic and Racial Studies, 34(5), 762–778. doi:10.1080/01419870.2010.537357. 2011
Mohapatra, G. Ethnic Conflict and Development: The Case of North-East Region with Special Reference to Manipur and Tripura. Indian Journal of Public Administration, 62(3), 449–470. doi:10.1177/0019556120160308. 2016

WEBSITES

Ethnicity/Multiculturalism/Migration
http://www.ijesar.org/docs/volume2_issue2/multiculturalism.pdf
Ethnic Enclaves
<http://www.vancouver.sun.com/life/Immigrants+choose+Metro+Vancouver+ethnic+enclaves+support+network/8180613/story.html>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	2 × 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1 × 10 = 10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1 × 10 = 10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1 × 10 = 10 (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Quiz / Assignment / Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/ER54												
V	Course Title: SOCIOLOGY OF ETHNIC RELATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

RURAL AND URBAN SOCIOLOGY

CODE:23SC/MC/RU53

CREDIT:3

L T P: 310

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To enable the students to understand the internal complexity and diversity of rural and urban society
- To identify the changes occurring in Rural and Urban Society
- To gain knowledge on social institutions in Rural and Urban society and their changes in the contemporary period
- To interpret the relevance of Government policies and programmes for Rural and Urban population
- To outline the problems in the Rural and Urban communities

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and explain basic social institutions and their functioning in Rural and Urban societies	K1
CO2	compare Rural with Urban society	K2
CO3	develop skills to critically analyze the social issues in rural and urban societies	K5
CO4	analyse the relevance and impact of governmental programmes for both rural and urban societies	K3,K4
CO5	evaluate the contemporary issues in Urban and Rural society	K5, K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNITS	CONTENTS	CL	HRS	CO
1	Introduction to Rural Sociology 1.1 Rural Sociology- Meaning and Definition 1.2 Origin and Growth of Rural Sociology 1.3 Nature and Scope of Rural Sociology 1.4 Rural reconstruction and future directions	K1	11	1
2	Rural Society in India 2.1 Rural Development Perspectives: Marxist and Gandhian	K2	10	2

UNITS	CONTENTS	CL	HRS	CO
	2.2 Rural Community- Rural-Urban Continuum, Rural-Urban Differences and Linkages 2.3 Rural Economy- Pre-Colonial and Post-Colonial and Contemporary changes 2.4 Rural Social Institutions – Marriage. Family and Religion 2.5 Rural Governance- Historical Development and functions of Panchayati Raj and 73rd Constitutional Amendment			
3	Introduction to Urban Sociology 3.1 Urban Sociology- Meaning 3.2 Origin and Development of Urban Sociology 3.3 Nature and Scope of Urban Sociology 3.4 Urbanization, Urbanism, Rural-Urban Continuum, Conurbation, Peri-Urbanization, Gentrification and Planetary Urbanization	K1-K6	10	3
4	Urban Sociology Theories: Classical and Contemporary 4.1 Ecological Approach: Urban Ecology, 4.2 Ecological System and Process 4.3 Urban Growth Theories: Burgess’ Concentric Zone Theory, Hoyt’s Sector Theory	K1-K6	10	4
5	Issues and Rural and Urban Development Programmes 5.1 Urban Issues: Urban Homelessness, Urban Crimes Slums and Culture of Poverty 5.2 Urban Development Programmes – Pradhan Mantri Awas Yojana, Atal Mission Rejuvenation and Urban Transformation (AMRUT) 5.3 Rural Issues: Caste Panchayat, Caste and Politics, Khap Panchayat Issues of Dalits, Inter- caste conflicts, concerns of rural women 5.4 Rural Development Programmes – National Rural Employment Guarantee Act (NREGA), SarvaShiksha Abhiyan 5.5 Tamil Nadu Government Welfare Schemes	K1-K6	11	4-5

BOOKS FOR STUDY

Desai A.R, Rural sociology in India, International Universities press, 1994
 William G Flanagan Urban Sociology, Rowman, 2010
 Kumar, Urban and Rural Sociology, Lakshmi Narain Agarwal publisher, 2020

BOOKS FOR REFERENCE

Desai, A.R., Rural Sociology in India Bombay, Popular Prakashan 1997.
 Doshi, S.L.and Jain P.C. Rural Sociology. Jaipur, Rawat Publications 1999
 Laxmi Devi, Rural sociology Anmol Publishers, 1998.
 Peter H Mann,Rutledge and Kegan Paul, Urban Sociology in India, Orient Longman, 1974

Rao M S A, Urban Sociology, Orient Longman, Bombay, 1977
 Ramachandran, R. Urbanization and Urban Systems in India, Oxford University Press 1991.
 Reddy, Venkateswara, Methods of teaching rural sociology, Discovery Publishers, 2004
 Sassen, Saskia and Kwame Anthony Appiah (1998) Globalization and its Discontents, New Delhi, Oxford University Press 1998.
 Singh, Bharat, Modern Teaching of Rural Sociology, New Delhi, Anmol 2004
 Vishal Kala, Rural Sociology, New Delhi Sonali publications, 2012

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Quiz & Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/RU53												
V	Course Title: RURAL AND URBAN SOCIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	3	3	3	3	2	2	2
CO 2	3	3	3	3	3	2	3	3	3	3	2	2	3
CO 3	3	3	3	3	3	2	3	2	3	3	3	3	3
CO 4	3	3	2	3	3	2	3	2	3	3	3	3	2
CO 5	3	3	2	3	3	2	3	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by the Departments of Sociology and Zoology to
B.A. Sociology and B.Sc. Advanced Zoology and Biotechnology Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOETHNOZOOLOGY

CODE: 23ID/IC/SZ55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the meaning of Ethnobiology, Ethnozology, Ethnology, Sociology, Sociobiology and comprehend the role of animals in human culture and human – animal relationships
- To understand the sociology of human-animal relationships
- To comprehend the significance of animal domestication, historical, sociological and economic importance of animals and zooindicators of weather and climate
- To understand social evolution, social groups, social organisation in invertebrates and vertebrates and the theory of parental investment
- To comprehend the fundamental principles and modes of communication in humans and animals

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand / recall basic definitions related to ethnology, sociology and their derivatives, concepts regarding human - animal relationships and the role of animals in culture, historical, sociological and economic importance of animals including their use as food, medicine and zooindicators of weather and climate, social evolution and organisation, and communication in humans and animals	K1
CO2	describe/ discuss the wide ranging relationships between humans and animals, communication in humans and animals, social evolution, social organisation, ethnological and sociological concepts	K2
CO3	apply the knowledge gained to identify the historical, sociological and economic use of animals including their use as food, medicine and zooindicators of weather and climate; discuss the meaning of ethnology, sociology and related disciplines, human-animal relationships, social evolution, social organisation and communication in humans and animals	K3
CO4	examine the process of social evolution, social organisation, modes of communication and their functions in humans and animals, human-animal relationships, historical, sociological and economic use of animals including their use as food, medicine and zooindicators of weather and climate	K4

COs	DESCRIPTION	CL
CO5	explain concepts related to Ethnology, Sociology and Sociobiology; human - animal relationships, significance of animals in culture, historical, sociological and economic use of animals including their use as food, medicine and zooindicators of weather and climate; social evolution, social organisation in invertebrates and vertebrates; and communication in humans and animals	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Meaning of Ethnobiology and Ethnozoology- Basic definitions- Qualities of Sociality 1.2 Role of animals in human culture: Biological predisposition and individual differences in human attitudes towards animals - Animal Mythology in the Indian context 1.3 Meaning of Ethnology; Sociology; Sociobiology 1.4 Interdisciplinary Approach in understanding Human-Animal Relationship – Sociozoologic scale	K1- K6	14	1-5
2	Sociology of Human and Animal Relationship 2.1 Significance of Sociology of Human-Animal Relationship 2.2 Scope of Sociology of Human-Animal Relationship 2.3 Sociological Perspective on Human Animal Relationship: Symbolic Interactionism Theory and Conflict Theory 2.4 Social Relationships and Social Organizations.	K1-K5	16	1-5
3	Ethnozoology 3.1 Historical and Sociological significance of animals and their domestication 3.2 Animals as food: Arthropods – Molluscs – Echinoderms - Vertebrates 3.3 Animals in medicine : Traditional and Contemporary 3.4 Economic importance of animals and their products – Animals as zooindicators of weather and climate	K1-K5	16	1-5
4	Social Evolution 4.1 Meaning of Organic Evolution, Natural Selection and Social Evolution - Cooperation, coordination and division of labour 4.2 Social Groups: Altruism, kin selection, dominance and hierarchy 4.3 Coloniality: Adaptive basis of coloniality – Adaptive significance of roles – Optimization of Caste Systems - Social insects: Ants, Bees and Termites – evolution of social organisation - Other Social species: invertebrates (Coelenterates), Fish, Frogs, Reptiles, Birds and Mammals (Social traits and Social Behaviour in Chimpanzee) 4.4 The Theory of Parental Investment - Ecology of Parental Care – Parent-Offspring conflict – Alloparental care	K1-K6	16	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Verbal and Nonverbal Communication 5.1 Origin of human language – Forms of communication 5.2 Verbal and non-verbal communication and its functions 5.3 Non-verbal communication in animals : Discrete versus graded signals - Signal specificity-Signal economy 5.4 Functions, advantages and disadvantages of animal communication - a comparative study	K1-K6	16	1-5

BOOKS FOR REFERENCE

Franklin, A. (1999) Animals and Modern cultures-A Sociology of Human Animal Relations in Modernity. London: Sage Publications
 Anderson, E.N and Pearsall, D. (2011) Ethnobiology, Wiley Blackwell
 Peggs, K. (2012). Animals and Sociology. U.K: Palgrave Macmillan.
 Alves, R. R. N. and Albuquerque, U.P. (2017) Ethnozoology: Animals in our lives. Academic Press
 Wilson, E. O. (2000) Sociobiology : The New synthesis (25th anniversary ed.). Cambridge: Harvard University Press

WEB RESOURCES

Coursera course: Animals and Society: <https://www.coursera.org/specializations/animals-society>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Part I: Sociology Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective type	K1 (3 marks)	3 x 1 =3	3 K1 questions	3 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Relate, Identify, Comment on, etc.)	K2 (4 marks)	2 x 2 =4	2 K2 questions	2 K2 questions
C (Answer any one question) Essay (400 words)	K3 (8 marks)	1 x 8 = 8	1 K3 questions	2 K3 questions
D (Answer any one question) Paragraph (200 words)	K4 (5 marks)	1 x 5 = 5	1 K4 question	2 K4 questions
E (Answer any one question) Paragraph (200 words)	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions

Part II: Zoology Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective type	K1 (3 marks)	3 x 1 =3	3 K1 questions	3 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Relate, Identify, Comment on, etc.)	K2 (4 marks)	2 x 2 =4	2 K2 questions	2 K2 questions
C (Answer any one question) Essay (400 words)	K3 (8 marks)	1 x 8 = 8	1 K3 questions	2 K3 questions
D (Answer any one question) Paragraph (200 words)	K4 (5 marks)	1 x 5 = 5	1 K4 question	2 K4 questions
E (Answer any one question) Paragraph (200 words)	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	16	22

Other Components:

Total Marks: 50

Observation, documentation and compilation of field report/Case study Analysis/
Assignment/Report Submission/Presentation

Two to three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Part I: Sociology Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective type	K1 (6 marks)	6 x 1 =6	6 K1 questions	6 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Relate, Identify, Comment on, etc.)	K2 (8 marks)	4 x 2 =8	4 K2 questions	4 K2 questions
C (Answer any two questions) Essay (400 words)	K3 (16 marks)	2 x 8 = 16	2 K3 questions	3 K3 questions
D (Answer any two questions) Paragraph (200 words)	K4 (10 marks)	2 x 5 = 10	2 K4 questions	3 K4 questions
E (Answer any two questions) Paragraph (200 words)	K5 (10 marks)	2 x 5 = 10	2 K5 question	3 K5 questions
Part II: Zoology Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective type	K1 (6 marks)	6 x 1 =6	6 K1 questions	6 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Relate, Identify, Comment on, etc.)	K2 (8 marks)	4 x 2 =8	4 K2 questions	4 K2 questions
C (Answer any two questions) Essay (400 words)	K3 (16 marks)	2 x 8 = 16	2 K3 questions	3 K3 questions
D (Answer any two questions) Paragraph (200 words)	K4 (10 marks)	2 x 5 = 10	2 K4 questions	3 K4 questions
E (Answer any two questions) Paragraph (200 words)	K5 (10 marks)	2 x 5 = 10	2 K5 question	3 K5 questions
Total		100	32	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/SZ55												
V	Course Title: SOCIOETHNOZOOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	1	3	3	3	3	2	3	1
CO 2	3	3	3	3	2	1	3	3	3	3	3	3	1
CO 3	3	3	3	3	2	1	3	3	3	3	3	3	1
CO 4	3	3	3	3	2	1	3	3	3	3	3	3	1
CO 5	3	3	3	3	2	1	3	3	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF RELIGION

CODE: 23SC/MC/SR64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce to students the sociological interpretations of religious phenomena
- To acquaint the students with the various perspectives of religion
- To facilitate the understanding of sociological consequences of religion
- To initiate a Sociological perspective on communal conflicts in India
- To outline connection between religion, society and politics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the basic concepts in sociology of religion	K1,K2
CO2	compare and contrast sociological perspective and common understanding of religion	K3
CO3	examine sociological consequences of religion	K4
CO4	analyse religion from various sociological perspectives	K5
CO5	evaluate the role of religion in the contemporary world	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition of Religion: Substantive and Functional 1.2 Aspects of Religion: Belief, Ritual, Experience and Community 1.3 Religious Experience and Expressions: Theoretical (Doctrine) and Practical (cult) expressions 1.4 Pre-historic and Primitive Religion	K1- K2	11	1-5
2	Sociological Consequences 2.1 Sociological functions of Religion 2.2 The Integrating power of Doctrine 2.3 The Integrating power of worship	K1-K4	13	1-5

UNIT	CONTENT	CL	HRS	CO
3	Sociological Perspectives 3.1. Structural Functional 3.2. Social Conflict 3.3 Symbolic Interactionism	K1-K5	13	1-5
4	Religion and society 4.1 Religion and Politics 4.2 Religion and Socio-economic development 4.3New Religious movements	K1-K6	13	1-5
5	Religious Contentions in India 5.1 Secularism 5.2 Proselytism 5.3 Communalism 5.4 Fundamentalism	K1-K6	15	1-5

BOOKS FOR STUDY

Hamilton Malcom B., The Sociology of Religion: An Introduction to Theoretical and Comparative Perspectives (2nd edition), USA, Routledge, 2006.

Henne Peter S, Religious appeals in Power politics (Religion and Conflict), Cornell University Press, United States, 2023

Johnstone, Ronald L., Religion in Society: A Sociology of Religion (8th edition), New Jersey Pearson Publication, 2006.

Wach Jaochim, Sociology of Religion, Routledge Publisher, England,2019

BOOKS FOR REFERENCE

Cousineau Madeleine, Religion in a Changing World: Comparative Studies in Sociology (Religion in the Age of Transformation), USA, Praeger Publishers Inc,1998.

Durkheim Emile, The Elementary Forms of Religious Life, New York Collier Book, 1961.

Kivisto Peter, Swatos. William.H., JR and Christiano Kevin J., Sociology of Religion: Contemporary Developments (2nd edition),USA, Rowman & Littlefield Publishers, 2008.

McGuire Meredith, Sociology of Religion, New Delhi, Rawat Publication, 2012.

Madan T.N, Religion, UK, Oxford University Press, 1997.

O'Dea, Thomas F., The Sociology of Religion, New Delhi, Prentice Hall,1966.

Repstad Pal and Furseth Inger, An Introduction to the Sociology of Religion: Classical and Contemporary Perspectives, USA, Ashagate Publishing Limited, 2006.

Wach, Joachim, Sociology of Religion, Chicago, University of Chicago Press, 1971.

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Quiz & Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/SR64												
VI	Course Title: SOCIOLOGY OF RELIGION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	3	3	2	3	2	3
CO 3	3	3	3	2	3	3	3	3	3	2	3	2	2
CO 4	3	3	2	2	3	3	3	3	3	3	3	2	2
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL SOCIOLOGY

CODE: 23SC/MC/ES64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the relationship between individuals and the environment
- To critically explore the dimensions of relationship between society and natural environment
- To understand the significance of environmentalism
- To explore the changing dimensions in nature-society relations
- To enable students to reflexively understand their role as agents of change in environmental protection.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and understand the meaning of Environmental Sociology	K1
CO2	illustrate the diverse approaches to the study of society and natural environment	K2
CO3	apply Sociological perspectives to the study of natural environment	K3
CO4	analyse the diverse discourses on nature-society paradigm	K4
CO5	critically evaluate and elaborate the environmental issues with Sociological imagination	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Definition and Concept of Environment 1.1 Meaning of Environmental Sociology 1.2 Nature and Scope of Environmental Sociology 1.3 Dimensions of Environment 1.4 The Relationship between Society and Natural Resources.	K1- K6	10	1-5
2	Perspectives of Environmental Sociology 2.1 Sociological Perspective 2.2 Religious Perspective 2.3 Development Perspective 2.4 Eco-Feminism	K1-K6	10	1-5

UNIT	CONTENT	CL	HRS	CO
3	Problems and Concerns of Environment 3.1 Environmental Issues, Causes and Consequences on Environment 3.2 Role of Human Behaviour in Environmental Changes and Disasters 3.3 Technology Change and Environment 3.4 Effects of Consumption and Consumerism on Environment	K1-K6	15	1-5
4	Environmentalism 4.1 History and Development of Global Environmentalism 4.2 Indian Environmentalism 4.3 Environmental Movements in India 4.3.1 Chipko Movement 4.3.2 Narmada Bachao Andolan	K1-K6	15	1-5
5	Environmental Disaster Management 5.1 Definition and types of Disaster 5.2 Intersections of Race, Class, Ethnicity and Disaster Vulnerability 5.3 Disaster Management Cycle 5.4 Environment and Social Impact Assessment (ESIA) Procedures 5.5 Sustainable Development and Change Agents	K1-K6	15	1-5

BOOKS FOR STUDY

Gardner Gerald T., *Environmental Problems and Human Behavior*. Second edition. USA: Pearson Learning Solutions, 2002.

Guha, Ramachandra. *Environmentalism: A Global History*. New Delhi: OUP, 2000.

Kenneth A. Gould and Tammy L. Lewis, *Twenty Lessons in Environmental Sociology*, OUP, 2009

BOOKS FOR REFERENCE

Ghauta Ramesh and Others, *Environmental Education – Problems and Prospects*, New Delhi: Discovery, 2000.

Hannigan John. *Environmental Sociology*. Third edition. New York: Routledge, Taylor & Francis Group, 2014.

Ignacimuthu, S. *Environmental Awareness and Protection*. New Delhi: Phoenix Publishers, 2000.

Katiyar, V.S. *Environmental Concerns, Developing Resources*. New Delhi: Pointer Publishers, 2000

Micheael Mayerfeld Bell, *An invitation to Environmental Sociology*. C.A: Pine Forge Press, Thousand oaks, 2004.

Mukerjee Radhakamal. *Social Ecology*. New Delhi: D.K. Printworld (P) Ltd, 2014. Satsangi Alok, Sharma Anhuman. *Environmental Impact Assessment and Disaster Management*. New Delhi: Rajat Publishing, 2015

Sinha, Prabhas, *Disaster Management Process: Law, process and Strategy*. New Delhi: SBS Publishers, 2006

Singh Jagbir, *Disaster Management; Future Challenges and Opportunities* .New Delhi I.K. International Publishing Ltd. 2007.
 Vaidyanathan, A., *Water Resource Management – Institutions and Irrigation*. New Delhi: OUP, 2000.

JOURNAL

Sociological practice. A journal of clinical and applied sociology Vol4 N0 4.Dec2002

WEB RESOURCES

Global issues .org

Consumption and Consumerism on the environment

<http://ramachandraguha.in/archives/the-rise-and-fall-of-indian-environmentalism.html>

<http://www.thehindu.com/opinion/lead/the-past-present-of-indian-environmentalism/article4551665.ece>

<http://nceg.upesh.edu.pk/bgworkshop08/lectureslides/Day11/social%20dimension%20of%20disaster.pdf>

The sociology of disaster: the classics, social vulnerability, resilience, environmental migration, and risk perception

<http://disaster.colostate.edu/Data/Sites/1/cdra-research/cdra-readinglists/michelle-readinglist2010-1.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 =10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	2 x 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1x10=10 (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Quiz / Assignment / Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/ES64												
VI	Course Title: ENVIRONMENTAL SOCIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF LAW

CODE: 23SC/MC/SL63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand the importance of law as an instrument of social control and change.
- To familiarize students with the various classification of laws in society.
- To detail the relationship between law and society.
- To make students to comprehend procedure of law making and judicial review.
- To appraise laws and its alternative redressal mechanisms.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the concepts associated with law and its origin	K1
CO2	understand imperative nature of law in society	K2
CO3	identify the interconnectedness of law and society	K3
CO4	examine legal awareness and theoretical framework in the making of law	K4
CO5	evaluate and appraise the provisions of law and sociological dimensions of global development and changes in law	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction Meaning and Definition of Law and Sociology of Law 1.1 Evolution of Sociology of Law 1.2 Sociological Jurisprudence 1.3 Sociology and its relation to law 1.4 Law and its interconnections with society	K1- K5	11	1-5
2	Historical Perspectives of Law 2.1 Founders of Sociology of Law 2.2. Evolution of Law 2.3 Classical Hindu Laws 2.4 Law as an Instrument of Social Change 2.5 Introduction of Civil and Criminal Courts	K1-K5	11	1-5

UNIT	CONTENT	CL	Hrs	CO
3	Modern Legal Systems in India 3.1 Sources of Indian Law: Primary and Secondary 3.2 Judicial System in India 3.3 Types of Law: Civil, Criminal, Public and Personal	K1-K6	10	1-5
4	Dynamics of Society and its impact on Law 4.1 Gandhism 4.2. Marxism 4.3. Naxalism 4.4 Public Interest Litigation 4.5 Alternative Dispute Resolution 4.6 Panchayati Raj Institutions – dispute mechanism	K1-K6	10	1-5
5	Sociological Dimensions of Law 5.1 Law and Social Engineering 5.2 Law and Economy 5.3 Law and Politics 5.4 Law and Culture 5.5 Law and Globalisation	K1-K6	10	1-5

BOOK FOR STUDY

Indra Deva Sociology of Law, New Delhi Oxford University Press, 2005.

Ishwara Bhat. Law & Social Transformation. Lucknow: Eastern Book Company 2009

BOOKS FOR REFERENCE

Banakar R., An Introduction to Law & Social Theory. Hart Publishing. 2002

Galanter Marc, Law and society in modern India, New York Oxford University Press, 1998

Ishwara Bhat.P., Law and Social Transformation, Lucknow :Eastern Book Company 2009

Kaul.A.k., A Textbook of Jurisprudence. New Delhi: Satyam Law International. 2009

Malik and Raval Law and Social Transformation in India, Allahabad Allahabad Law Agency, 2009

Malceve R.M Society An Introductory Analysis. New Delhi. : Macmillan 2001

Mathieu Deflem. Sociology of Law: Visions of a Scholarly Traditions 2008

Singh Avtar and Harpeet, Introduction to Jurisprudence, Nagpur, Lexix Nexix 2010.

Sarat A (Ed). The Blackwell Companion to Law & Society. Melden, MA: Blackwell. 2004

Sharyn Roach Anleu, Law and Social Change, New Delhi, Sage Publications, 2010

WEB RESOURCES

<https://www.sciencedirect.com/topics/social-sciences/sociology-of-law>

<https://www.scribd.com/document/424141736/Sociology-of-law-notes#>

<https://www.legalserviceindia.com/legal/article-1678-alternative-dispute-resolution-adr-.html#:~:text=Alternative%20Dispute%20Resolution%20mechanism%20provides,mediation%2C%20negotiation%20and%20lok%20Adalat.>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components:**Total Marks: 50**

Seminar/Magazine Review/Assignment/Presentation

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/SL63												
VI	Course Title: SOCIOLOGY OF LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	3	3	3	2	3	1
CO 2	3	3	3	3	3	2	3	3	3	3	3	3	2
CO 3	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL MOVEMENTS

CODE: 23SC/MC/SM63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To explain the importance of social movements in bringing about social change
- To define concepts, types and dimensions of social movements
- To analyse identities, deprivation and ideological orientation of Dalit movements
- To expose students to regional movements with reference to linguistic and identity politics
- To understand new social movements and its impact on society

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand and relate various forms of resistance and their role in determining the nature of social movements in society.	K1,K2
CO2	distinguish identities relating to caste, gender and sexual orientation that shape social movements	K2-K4
CO3	compare and classify various phases of the movement through the lens of deprivation, identity politics and mobilisation	K2-K5
CO4	examine the social, economic and political changes that provided the conditions for the rise of social movements which brings in social change in the society	K2-K5
CO5	evaluate how social movements today extend beyond national boundaries and become global social movements	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition 1.2 Classification of Social Movements 1.3 Dimensions of Social Movements.	K1- K2	11	1-2
2	The Indian National Movement 2.1 Rise of Political Nationalism 2.2 Birth of the Nationalist Movement. 2.3 The Non Co-operation movement 2.4 Civil Disobedience Movement 2.5 Quit India Movement.	K1-K3	11	1,2,4

UNIT	CONTENT	CL	HRS	CO
3	Dalit movement 3.1 Types of Identities 3.2 Sources of Deprivation 3.3 Ideological orientation 3.4 Political mobilization of Dalits, Dalits and Social Transformation	K1-K5	11	1-5
4	Regional Movements 4.1 SNDP Movement 4.2 Dravidian Movement.	K1-K5	10	1-5
5	New Social Movements 5.1 Contemporary Social Movements and its characteristics 5.2 LGBTQA+ Movements 5.3 Globalisation and Social Movements	K1-K6	10	1-5

BOOKS FOR STUDY

Joshi Vidyut, Upadhyay Rushiraj, Social Movements, Rawat Publications, 1st edition, 2022
Rao, M.S.A.(ed.), Social Movements in India, Manohar Publications, New Delhi.1984

BOOKS FOR REFERENCE

Bloom, Joshua and Waldo E. Martin, Jr. Black Against Empire: The History and Politics of the Black Panther Party. Oakland, CA: University of California Press, Chapters 1 & 2 (Pp. 19-62) , 2013
Desai, A.R., Social Background of Indian Nationalism, Popular Prakasham Bombay.1987
Diehl Anita, Periyar E.V. Ramasami : A Study of the influence of a personality in contemporary South India, B. I. Publications, Madras.1987
Gorringe, H. Taming the Dalit Panthers: Dalit Politics in Tamil Nadu -Journal of South Asian Development, 2(1), 51-73, 2007
Jodhka, S, Kanshi Ram and the Making of Dalit Political Agency. Economic & Political Weekly, 56(3), 35, 2021
Kumar, Vivek 'Different Shades of Dalit Mobilisation' in Oommen, T. K. (ed) Social Movements, Vol. I, Oxford University Press: New Delhi, 2010
Nandu Ram, Dalits in Contemporary India Volume I, Siddhanth Publication, New Delhi.2008
Rao, M.S.A., Social Movements and Social Transformation, Manohar Publications, New Delhi. 1987
Singh Rajendra, Social Movements Old and New – A post modernist Critique, Sage Publications, New Delhi.2001
Shah, Ghanshyam,, ed., Social Movements and the State, Sage Publications, New Delhi.2004
Webster, John , Religion and Dalit Liberation: an examination of perspectives, Manohar Publications, New Delhi.2002
Zelliot, Eleanor, From Untouchables to Dalits and other essays, Manohar Publications, New Delhi. 2001

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/MC/SM63												
VI	Course Title: SOCIAL MOVEMENTS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	2	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

NON-GOVERNMENTAL ORGANIZATIONS

CODE:23SC/ME/NG45

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To explain the basic functioning and approaches of NGOs
- To identify the changes brought by the NGOs at the grassroots level.
- To gain knowledge on the linkage of NGO with government and other Organisations
- To analyse the role of NGOs as a change maker
- To outline the problems faced by NGOs

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain NGOs as a development organization	K1
CO2	compare and contrast approaches in analysing the functioning of the NGOs	K2
CO3	develop basic skills of setting up NGOs.	K3,K6
CO4	analyze the challenges and implications that NGOs face in terms of their multiple and varied relationship with Government, communities, and other organisations.	K4
CO5	assess the contributions of NGOs for the development of the nation.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Non-Governmental Organisations 1.1 Definition 1.2 Objectives of NGO 1.3 Types of NGO 1.4 History of NGOs in India 1.5 Role of NGOs in Social Change 1.6 The Present Status of NGOs in India	K1	11	1

UNIT	CONTENT	CL	HRS	CO
2	Background of Non-Governmental Organisations 2.1 Philosophies of Non-Governmental Organisations: 2.1.2 Religious 2.1.3 Humanitarian 2.1.4 Marxist 2.2 Goals of Non-Governmental Organisations: Demand and Supply 2.3 NNGOS & INGOS- Roles and Issues	K2	13	2
3	NGO Partnerships and Legislations 3.1 Linkages of Non-Governmental Organisations with Government 3.2 Linkage with International Organisations 3.3 Linkage with Civil Society 3.4 Social Legislations in India- 3.4.1 Societies Registration Act, 1860 3.4.2 Indian Trust Act, 1882 3.4.3 FCRA: Foreign Contribution Regulatory Act 3.4.4 Income tax Act 1961: Nature and scope of Section 10, 11, 12 (Rebate and Exemption)	K1-K6	13	3
4	Management of Non-Governmental Organisations 4.1 Functions and Principles of NGO Management 4.2 NGO Organizational Design 4.3 Human Resource, Social Marketing and Performance Management in NGOs 4.4 External and Internal Stakeholders in NGO Management	K1-K6	13	4
5	NGO Governance and Issues 5.1 Problems of NGO Accountability and Transparency 5.2 Efficiency and Sustainable Measures 5.3 Strategies for NGO Growth in India 5.4 Implementation, Monitoring and Evaluation of Interventions. 5.5 NGOs in Health, Women & Children, Micro-Finance, Advocacy 5.6 Field Visits	K1-K6	15	5

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Abraham, Anita (Third Edition). Formation and Making of NGOs, New Delhi: Universal Law Publishing Co.Pvt.Ltd, 2011
 Lall Robin, The Dynamics of NGOs, New Delhi: Dominant Publishers and Distributors, 2004.

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- Verma, Sawali Bihari., Rural Prosperity Oriented Programmes, NGOs and People's Participation. Jaipur: Avishkar Publishers Distributors, 2003

Articles

- David Lewis (LSE –Centre for Civil Society, Department of Social Policy):
Management of Non-Governmental Developmental Organizations
Dr. R.P. Raya and Dr. K. Rajendran
(Professor and Head; Formerly Research Scholar-Management Studies, Pondicherry University):
Role of Non-Governmental Organizations in Micro Finance through SHGs-A Study of Vellore District in Tamil Nadu

Web Resources

- Religious NGOs: An Exploratory Analysis
http://fingodap.in/pdf/registration_of_ngo.pdf
<http://www.fcraforngos.org>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Quiz & Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/ME/NG45												
	Course Title: NON GOVERNMENTAL ORGANISATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	2	2	3	3	2	3	3	2	3	2
CO 3	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 5	3	3	2	2	3	3	3	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

LOGIC AND SCIENTIFIC METHODS

CODE:23SC/ME/LS45

CREDITS: 5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint the students to the significance of Logic in methodology of science
- To initiate inductive and deductive methods of reasoning
- To enumerate and elaborate various methods to reason better logically
- To interpret different arguments so as to design stronger and better logical arguments.
- To apply the concepts of logical thinking to identify fallacies in arguments and language of the opponent.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to :

COs	DESCRIPTION	CL
CO1	identify and indicate fallacies in arguments in articles, news, advertisements etc.	K1-K5
CO2	develop comprehensive knowledge and understanding of their subject area, the ability to engage with different traditions of thought, and the ability to apply their knowledge in practice	K1-K5
CO 3	represent the structure of statements and arguments in symbols.	K1-K5
CO4	evaluate both deductive and inductive arguments, and identify fallacies in argumentative discourse	K6
CO5	critically analyze data to evaluate evidence, construct reasoned arguments, and communicate inferences and conclusions.	K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 The Subject Matter of Logic 1.2 Terms and Distribution of Terms 1.3 Logical Form of Sentences 1.4 Principle of Division and Definition 1.5 Fallacies of Language and Arguments	K1- K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Propositions 2.1 Traditional and Modern Classification of logic 2.2 Immediate Inference: 2.2.1 Opposition of Proposition 2.2.2 Deductions 2.3 Rules and Fallacies of Categorical Syllogism: Figures and Moods-validity 2.4 Mixed syllogism: 2.4.1 Hypothetical 2.4.2 Disjunctive 2.5 Dilemma: Types	K1-K5	13	1-5
3	Symbolic Logic and Logic Gates 3.1 Symbolic Logic and Logical Basis of Automatic Computation 3.2 Value of Special Symbols 3.3 Truth Tables for Conjunction, Alternation and Implication. 3.4 Statement, Statement Forms, Argument, Argument Forms. 3.5 Truth Tables for Determining Validity /Invalidity of Arguments 3.6 Logical Basis of Automatic Computation 3.6.1(Prerequisite) The Definition of AND, OR, NOT NAND,NOR, XOR & XNOR operations 3.6.2 Formulation of Truth Tables and their Use	K1-K6	15	1-5
4	Inductive Reasoning 4.1 The Methods of Scientific Enquiry: Mill's Methods:- 4.1.1 The Experimental Method 4.1.2 The Method of Agreement 4.1.3 The Method of Difference 4.1.4 The Joint Method of Agreement and Difference 4.1.5 The Method of Concomitant Variation 4.1.6 The Method of Residues	K1-K6	13	1-5
5	Tests of Reasoning 5.1 Analogy Test 5.2 Series Test 5.3 Same Class and Other Class Tests 5.4 Visual Test 5.5 Relationship Test 5.6 Coding and Decoding Test 5.7 Synonym Test and Antonym Test 5.8 Direction Test 5.9 Sentence Formation Test 5.10 Time Sequence Test 5.11 Blood Relationship Test 5.12 Word Building Test 5.13 Natural Sequence Test.	K1-K6	12	1-5

BOOK FOR STUDY

Copi, Irving, Carl Cohen, An Introduction to Logic, Prentice Hall International, 8th ed, 2009
Gensler J. Harry, An Introduction to Logic, Routledge, 2nd edition 2011
Genesereth Michael, Eric Kao, Morgan and Claypool Public, 2019
Hurley J Petrick, A concise introduction to Logic, Wadsworth Publishing, 2000

BOOKS FOR REFERENCE

Balasubramanian.P, Symbolic Logic and its Decision Procedure. Madras: Madras University, 1986
Nandan M.R., Text Book of Logic, New Delhi: S. Chand & Co., 1981
Rajaraman, V., Computer Primer. New Delhi: Prentice Hall, 1986.
Sharma, J.K., Logic. New Delhi: S. Chand & Co., 1981.

WEB RESOURCES

<http://www.friesian.com/aristotl.htm>
<http://www.iep.utm.edu/fallacy/#H6>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	2 x 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1x10=10 (Answer any 1 out of 2 questions with 500 words each)

Other Components:

Total Marks: 50

Seminar/Quiz/Assignments

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out of 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/ME/LS45												
	Course Title: LOGIC AND SCIENTIFIC METHODS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	3	2	3	3	-	-	3	3	2	-	-
CO 2	3	3	3	2	3	3	-	-	3	3	3	2	-
CO 3	2	3	3	2	3	3	-	-	3	2	-	-	-
CO 4	3	3	3	2	3	3	-	-	3	3	2	3	-
CO 5	3	3	3	2	3	3	-	-	3	3	3	3	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

INDUSTRIAL SOCIOLOGY

CODE: 23SC/ME/IS45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand social dimensions of Industry
- To acquaint students with functioning and development of industrial organisations
- To understand various theoretical approaches to Industrial Relations
- To understand labour relations and labour union in industry
- To evaluate the impact of Globalisation and the latest trends in industrial organisations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	examine the importance of Industrial Sociology and its development	K1
CO2	identify various theoretical frameworks in the study of industrial organisation	K2,K4
CO3	compare and contrast industries as a complex and dynamic social organisation	K3,K4
CO4	distinguish workplace culture and various levels of recruitments and trainings involved in industries	K4,K5
CO5	evaluate the functions and types of Trade Unions, focusing specifically on Trade Union Movements and Industrial Disputes	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Industrial Sociology: Nature and Scope 1.2 Importance of Industrial Sociology 1.3 Development of Industrial Sociology 1.4 Industry as a Social System	K1,K2	13	1,2
2	Classical Theories 2.1 Adam Smith 2.2 Karl Marx 2.3 Weber 2.4 Elton Mayo 2.5 Likert 2.6 Herzberg 2.7 Maslow 2.8 Mc Clelland	K1, K2,K4	14	1,2,4

UNIT	CONTENT	CL	HRS	CO
UNIT	CONTENT	CL	HRS	CO
3	Development of Industry and Industrial Organisation 3.1. The Manorial System-The Guild System-Domestic system 3.2. The Factory system-Evolution of Industries in India. 3.3 Origin and Function of Formal and Informal organisations 3.4 Dynamics of Industrial Relations –Factors affecting Industrial Relations, 3.5 Collective Bargaining- Types 3.6 Participative Management- Concept and practices of Participative Management.	K1,K2, K4, K5	13	1,2,4, 5
4	Recruitment, Training and Future of Industries 4.1 Sources of Recruitment: Internal and External, Methods: In House, Direct and Third Party Methods 4.2. Need and Methods of Training- On the Job and Off the Job Methods 4.3. Process and Methods of Performance Appraisal – Traditional and Modern Methods 4.4 Future of Industries:- Collectivist, anarchist, free market, environmentalist	K1-K5	12	1-5
5	Industrial Labour Relations 5.1. Trade Union 5.2 Features, Functions and Types 5.3 Trade Union Movement in India 5.4 Trade Union Challenges of Privatization and Globalisation and its decline 5.5 International Labour Organisation 5.6 Industrial Dispute 5.6.1 Court and Industrial Tribunal 5.6.2 Industrial Legislations 5.6.3 Labour Legislations 5.6.4 The Role of Government in Industrial Relation 5.7 Recent Trends in Industry: Automation, computerization and Globalisation	K1-K6	13	1-5

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Blau Peter M., Formal Organisation: A Comparative Approach, Stanford University Press, California, 2003
Singh Narendar, Industrial Sociology, Mc Graw Hill, New Delhi, 2011

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- Davis, Keth, Human Behaviour at Work, Mc Graw Hill Publication, New Delhi, 1984
- Gisbert Pascal, Fundamentals of Industrial Sociology, Tata McGraw Hill Publishing Co, New Delhi., 1972
- Dash, D. K., Diverse and Contra-Sectional Subjectivities in Social Movement Unionism: A Study of Chhattisgarh Mukti Morcha (Mazdoor Karyakarta Samiti). Sociological Bulletin, 70(1), 76-93, 2021
- Nair, M. Undervalued Dissent: Informal Workers' Politics in India. SUNY Press, 2016
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- Press. Scott, J. C. Weapons of the Weak. Yale university Press, 2008
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- Singh A.P, Industrial Sociology, New Age International Pvt.Ltd, New Delhi, 2011
- Singha G.P. and P.R.N. Singha, Industrial Relations and Labour Legislations, Oxford and IBH Publishing Co., New Delhi, 1977
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- Watson J. Tony, The Personal Manager-A study in the Sociology of work and employment, Routledge Publication, 1977
- Harriss-White, B, India working: Essays on society and economy (No. 8). Cambridge University Press, 2003

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/ME/IS45												
	Course Title: Industrial Sociology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	3	3	3	3	3	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	2	3	3	2	3	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

POLITICAL SOCIOLOGY

CODE:23SC/ME/PO45

CREDIT:5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable the students to understand the central tenets in political sociology
- To familiarize democracy with other forms of government.
- To enhance knowledge on theories in political sociology
- To interpret the relevant concepts and theories from political sociology in order to analyse political phenomena
- To critically analyse the political situations in the country through sociological lens

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic concepts in political sociology	K1
CO2	compare different political situations and apply sociological perspective to understand it	K2
CO3	develop critical understanding of factors contributing to political phenomena	K3
CO4	analyze the theories and concepts in political sociology	K4
CO5	evaluate the appropriate political situations for the development of the nation	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Political Sociology- Nature, Scope and Importance 1.2 Evolution of political sociology as a discipline 1.3 Approaches to study political sociology- Classical, Behavioural and contemporary. 1.4 Politics in Sociology, Sociology in Politics	K1	12	1
2	Political socialisation and culture 2.1 Political socialisation: Forms, stages and agencies of political socialisation 2.2 Media and politics: New election tools in new age 2.3. Gender and Politics: Women's position in India- A historical perspective and the contemporary scenario	K2	14	2
3	State and society in India 3.1 Welfare state, Socialism and Communism 3.2 Sociological theories of power-Class theory, Pluralist theory and Gender theory 3.3 Power elite and pressure groups 3.4 Political parties- Origin, types and function	K1-K6	13	3-4
4	Politics and voting behaviour 4.1 Determinants of voting behaviour: Caste, class, gender, tribe, ethnicity, religion and language 4.2 Nation, State, Citizenship 4.3 Democracy and Civil Society	K1-K6	13	4
5	Government and Development 5.1 Public Policy: Health, Education and Livelihood 5.2 Political culture 5.3 Grass root democracy 5.4 E-Governance	K1-K6	13	5

BOOKS FOR STUDY

Ali Ashraf L. N. Sharma. Political Sociology: A New Grammar of Politics. Hyderabad: University Press, 1983

Drake, Michael, Political Sociology for a Globalizing World, Cambridge: Polity, 2010

Gaur Singh Bhup, Sunita, Binoyjyoti Das, Political Sociology, Evince Publishing, 2023

BOOKS FOR REFERENCE

Basu Durga Das, Introduction to the Constitution of India. New Delhi: Prentice Hall of India Pvt, 1990.

Byres Terence J., The State Development Planning and Liberalization in India, New Delhi: Oxford University Press, 1999.

Dasgupta, Samir., Political Sociology, New Delhi, Pearson, 2012

Donovan, John, C., et al, People, Power and Politics, (3rd ed), Maryland, Rowman & Little Field, 1993

Dobratz, B.A., Waldner, L.K., & Buzzell, T., Power, Politics, and Society: An Introduction to Political Sociology (1st ed.), New York: Routledge, 2016.

Gaur Singh Bhup, Sunita, Binoyjyoti Das, Political Sociology, Evince Publishing, 2023

Heywood, Andrew G., Political Ideologies: An Introduction, London: Palgrave, 2017

Jayal Niraja, Gopal. (ed.) Democracy in India, New Delhi: Oxford University Press, 2001.

Janoski, T., Alford, R., Hicks, A., & Schwartz, M. (Eds.) The Handbook of Political Sociology: States, Civil Societies, and Globalization, Cambridge: Cambridge University Press, 2005

Mills, C W., The Power Elite. New York: OUP, 1956.

Nash, Kate, Contemporary Political Sociology: Globalization, Politics, and Power, Oxford: Wiley (Blackwell), 2010.

Pai, Sudha, State Politics : New Dimension Party System, Liberalisation and Politics of Identity, New Delhi: Shipra Publications, 2000

Roy, Shefali, Society and Politics in India: Understanding Political Sociology, Delhi: PHI Learning, 2014

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Quiz & Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out of 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/ME/PO45												
	Course Title: POLITICAL SOCIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	2	2	3
CO 4	3	3	3	3	3	3	3	3	3	2	2	2	3
CO 5	3	2	2	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF HEALTH

CODE: 23SC/ME/SH45

CREDIT: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the relationship between health and society
- To acquaint with socio-cultural factors that influences health
- To appraise accessibility to health care facilities
- To familiarise the framework of Health Administration
- To examine disparities and access to healthcare on the basis of identities

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the concepts related to health and sickness	K1
CO2	describe cultural and social factors relating to health	K2
CO3	compare the rural- urban divide in access to healthcare	K3
CO4	examine disparities in availing healthcare benefits	K4
CO5	evaluate existing health related policies and legislations	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definitions of Health-Nature, Scope and importance of Sociology in the study of Health and diseases 1.2 Relationship between Health and Society 1.3. Concept of Disease, Illness and sickness 1.4 Talcott Parson's and Sick Role 1.4. Determinants of Health	K1- K2	13	1-5

UNIT	CONTENT	CL	HRS	CO
2	Social Epidemiology 2.1 Meaning of Epidemiology 2.2 Social context of Health: Social and Cultural factors influencing the health of the people. 2.3. Occupational Hazards and Occupational Diseases 2.4. Preventive and Community medicine – Age and generation dependency issues- Communicable, Non-communicable, Pandemic (COVID)	K1-K4	13	1-5
3	Family and Health- Indian Context 3.1 Models of Healthcare 3.2 Family, Marriage, Pregnancy, Child rearing practices, Housing & Neighbourhood and its effect on health 3.3 Habits, practices connected with health and its effect on family members - Alcoholism, Drug Dependency, Tobacco smoking, extra marital sexual affairs 3.4 Affordability and Access to quality health care - Primary Health Care in India PHC and UHC, Social legislation in Health care	K1-K6	13	1-5
4	Equity in Health 4.1 Health and Healthcare: Inequalities of Gender, Caste, Class, Race, Ethnicity 4.2 Women and Health 4.3 Advancements in Health technology 4.4 Professionals and Personnel in the Healthcare Administration system	K1-K6	13	1-5
5	Policies and Social Legislations in Healthcare 5.1 WHO 5.2 National Health Policy of India 5.3 Preventive strategies and programs 5.4 Government Health Insurance Schemes 5.5 Role of NGO's in Healthcare	K1-K6	13	1-5

BOOKS FOR STUDY

Germov, J., & Hornosty). Second opinion: An introduction to health sociology. Oxford University Press, USA, 2016

Weiss, G. L., & Copelton, D. A. . The sociology of health, healing, and illness. Routledge, 2020

BOOKS FOR REFERENCE

Cockerham, William. C. Medical Sociology (Ninth Edition), Pearson Prentice Hall, New Jersey, 2003

Scrimshaw, S. C., Lane S.D., Rubinstein R.A. & Fisher J. (Eds.). The handbook of social studies in health and medicine. Sage. Pp 359- 372, 2022

Young, A. The anthropologies of illness and sickness. Annual review of anthropology, 11(1), 257-285, 1982

Cockerham, William. C. Reading in Medical Sociology Prentice Hall, New Jersey, (Ninth Edition), 1997

Cole..M Rodney, Sociology of Medicine, McGraw Hill Publication,1970

David Kline & David Harmun, Issues in population education, Lexington,London,1976

Davis B.M, Community Health and Social Services, Hodder and Soughon, London, 1997

Freeman and Levine, Handbook of Medical Sociology, Prentice Hall,1989

Jones J Linda, The Social Context of Health and Health work, Macmillan Press Ltd,1994.

Park K. TextBook of Preventive and Social Medicine, M/S. Banarsidas Bhanot Publishers, Jabalput, 2000

Rao, Sujatha. “Health Insurance: Concepts, Issues and Challenges”, Economic and Political Weekly, 39(34), pp. 3835-3844, 2004

Merton R.K, The student - Physician Introductory studies in the Sociology of Medical Education
Sharma, P. From Medical Pluralism to Medical Marginality: Changing Dynamics Within Unani System of Medicine. Sociological Bulletin, 69(2), 234-251, (2020).

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out of 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/ME/SH45												
	Course Title: SOCIOLOGY OF HEALTH												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	1	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	2	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL ENTREPRENEURSHIP

CODE: 23SC/ME/SE45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the role of Social Entrepreneurship in building a sustainable society
- To impart knowledge on how to build a social enterprise that can make a social impact
- To impart theoretical and practical knowledge on Social Enterprise Management
- To enable students to understand the nuances in addressing the challenges in social enterprise management
- To facilitate students to understand the relationship between theory and practice in Social Entrepreneurship

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the meaning and nature of Social Entrepreneurship	K1
CO2	illustrate the different social dimensions of social value creation as an outcome in Social Entrepreneurship	K2
CO3	apply the principles of Social Enterprise Management in understanding the social enterprise goals	K3
CO4	critically Analyse the various dimensions of socio-entrepreneurial potential of diverse groups in the society	K4, K5
CO5	construct social enterprise proposals to understand the fundamentals of starting a social enterprise	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Social Entrepreneurship 1.1 Meaning of Social Entrepreneurship 1.2 Corporate Philanthropism and Social Enterprise 1.3 Social Change and Innovation 1.4 Early Forms and Current Trends in Social Entrepreneurship 1.5 Types of Social Entrepreneurship 1.5.1 Social Bricoleur 1.5.2 Social Constructionist 1.5.3 Social Engineers	K1- K6	12	1-5
2	Social Entrepreneurship and Social Enterprise 2.1 Difference between Enterprise and Social Enterprise 2.2 Importance of Social Entrepreneurship 2.3 Factors Leading to Entrepreneurial Success 2.4 Recognizing and Assessing New Opportunities 2.5 Fundraising for Social Ventures	K1-K6	15	1-5
3	Social Entrepreneurship Motivation 3.1 Altruism 3.2 Non-Profit Intentions 3.3 Corporate Social Responsibility 3.4 Non-Profit Partnerships 3.5 Social Enterprise Business Plan Interventions	K1-K6	12	1-5
4	Women's social entrepreneurship and innovation 4.1 Innovation by Women Initiated Social Enterprises Social Ventures: 4.2.1 Innovation 4.2.2 Barriers to Innovation 4.3 Analysis of Five Cases of Women Social Entrepreneurs in India	K1-K6	13	1-5
5	Social Enterprise in Practice 5.1 Aravind Eye Hospital, Madurai 5.2 Jaipur Foot 5.3 Grameen Bank 5.4 Menstrupedia 5.5 Bill Drayton's Ashoka Foundation	K1-K6	13	1-5

BOOKS FOR STUDY

Amutha, D, *Empowerment Self Help Groups and Women Entrepreneurship*.
Delhi: Mangalam Publications, 2013
Cynthia, L. Greene, *Entrepreneurship Ideas in Action*. Singapore: Thomson Asia Pvt.
Ltd., 2004
Shukla, Madhukar, *Social Entrepreneurship in India : Quarter Idealism and a Pound of Pragmatism*, Sage, 2020

BOOKS FOR REFERENCE

Balaraju, Theduri, *Entrepreneurship Development: An Analytical Study*. New Delhi:
Akansha Publishing House, Uttam Nagar, 2004
Chandra, Ravi, *Entrepreneurial Success: A Psychological Study*. New Delhi:
Sterling Publication Pvt. Ltd., 2003
David, Otes, *A Guide to Entrepreneurship*. Delhi: Jaico Books Publishing House, 2004
David Bornstein, Susan Davis, *Social Entrepreneurship: What Everyone Needs
To Know*. USA: OUP: OUP USA Publishers, 2010
Desai, Vasan, *Small-Scale Industries and Entrepreneurship*. Delhi: Himalaya
Publishing House, 2002
Kaulgud, Aruna, *Entrepreneurship Management*. Delhi: Vikas Publishing House, 2003
Muhammad Yunus, *Banker to the Poor*. India: Penguin India, 2007
Frank Martin, Marcus Thompson, *Social Enterprise: Developing Sustainable
Businesses*. Palgrave Macmillan, 2010
Paul Burns, *New Venture Creation: A Framework for Entrepreneurial Start-
Ups*. Palgrave Macmillan, 2014
Taneja, *Entrepreneurship*. New Delhi: Galgotia Publisher, 2004

Excerpts from Books and Reading Materials:

Alan Khazei, *Big Citizenship*
Bill Milliken: *From the Rear View Mirror: Reflecting on Connecting the Dots*
David Bornstein. *How to Change the World: Social Entrepreneurs and the Power of
New Ideas*
David Bornstein and Susan Davis, *Social Entrepreneurship: What Everyone Needs to
Know*

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out 4 questions in 100 words each)
C	K3/K4	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Organizational Visit / Report Submission / Presentation/ Assignment

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out of 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/ME/SE45												
	Course Title: SOCIAL ENTRPRENEURSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	2	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT

CODE: 23SC/ME/PR45

CREDITS: 5

OBJECTIVES OF THE COURSE

- To enable students to develop research capabilities
- To encourage students to develop analytical skills.
- To help students understand research concepts.
- To provide real time exposure for undertaking research
- To promote the development of creative and academic writing capabilities

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the steps and process of conducting the research	K1
CO2	understand concepts and apply methods appropriately for the social research	K2
CO3	identify issues and capabilities required for undertaking research	K3
CO4	examine and critically evaluate social situations and realities	K4
CO5	develop solutions and suggestions for social issues and problems	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	CO
1	Introduction 1.1 Introduction : a general introduction to the topical area 1.2 Statement of the Problem: very specific statement of the problem to be studied. 1.3 Purpose of the Project: in this section a description about the overall purpose of the project should be made known. 1.4 Definition of Terms: important terms and concepts used in the project should be adequately analyzed and defined. 1.5 Significance of the Project: this section should provide answers as to what the project will contribute.	K1- K6	1-5
2	Review of the literature 2.1 The review is a careful examination of a body of literature pointing toward the answer to the need for the study or project.	K1-K6	1-5
3	Methodology 3.1 Explain the methods used for collecting data. 3.2 Descriptive writing approach must be utilised. 3.3 Collection of data 3.4 Analyse and Interpret data	K1-K6	1-5

UNIT	CONTENT	CL	CO
4	Summary, Conclusions and Recommendations 4.1 Introduction - an overview of the project should be provided in this section. Conclusions - describe the results. 4.2 Recommendations -these should be based on the conclusions. 4.3 References 4.4 Appendices	K1-K6	1-5

What sections go into the Research Report?

- Cover page
- Title page
- Acknowledgements
- Contents page
- List of figures or illustrations
- Main body - Introduction
- Main body – Review of literature
- Main body - Methodology
- Main body- Analyses
- Main body – Summary & Results
- Main body - Recommendations
- Main body - Conclusion
- Reference List/Bibliography
- Appendices

Avoid Plagiarism

PATTERN OF ASSESSMENT - Project 75 marks. Viva-voce 25 marks.

EndSemester Examination

Rubrics for Evaluation of Project	Marks	Cognitive Level
Research statement and methodology	15	K1 – K2
Documentation - text and images	40	K3 – K4
Research findings and analysis	20	K5- K6

Rubrics for Viva Voce	Marks	Cognitive Level
Presentation	15	K1 – K4
Defending and Justifications	10	K5- K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SC/ME/PR45												
	Course Title: PROJECT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of Sociology for
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF SPORTS

CODE: 23SC/GE/SS22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To explain the relationship between sports and society.
- To acquaint the students with the socio-cultural dimensions of sports
- To initiate a Sociological understanding of various social institutions and their influence on sports.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the sociological perspectives on sports	K1,K2
CO2	compare the influences of different social institutions on sports persons.	K3
CO3	analyse sports from a socio -political approach	K4
CO4	examine gendered and discriminatory aspects in sports industry	K5
CO5	assess the contemporary issues in sports	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction of Sport Sociology 1.1 Meaning and Historical origin of sport 1.2 Definition and Scope of sports sociology 1.3 Meaning of Games and Play 1.4 Cultural values and sports	K1- K2	8	1-5
2	Social Institutions and Spirit of the Sportsperson 2.1 Family 2.2 Education 2.3 Media 2.4 Politics 2.5 Religion 2.6 Economy	K1-K4	10	1-5

UNIT	CONTENT	CL	HRS	CO
3	Contemporary Issues in Sports 3.1 Sexism 3.2 Casteism 3.3 Nepotism 3.4 Ableism	K1-K5	8	1-5

BOOKS FOR STUDY

Delaney Tim and Madigan Tim, The Sociology of Sports: An Introduction, McFarland and Company, Inc., Publishers, 2008.

Frey James.H., Sociology of Sport, Boston, Cengage Learning, 2008.

BOOKS FOR REFERENCE

Coackley Jay Sports in Society: Issue & controversies, New York, McGraw Hill, 2007.

Jackson Steven.J and Hallinan Chris Social and Cultural Diversity in a Sporting World (Research in the Sociology of Sport), London, JAI Press Inc, 2008.

Jain Rachna Sports Sociology, New Delhi, Kehl Sahitya Kendra, 2002.

Majumdar Boria and Mangan J.A., Sport in South Asian Society Past and Present: London, Routledge, 2005

Malcolm Dominic, Sport and Sociology, New York, Routledge, 2012.

Srinivasasraju. B.J., Sports Sociology, New Delhi, Sports Publication, 2011.

Woods Ron, Social Issues in Sport (2nd edition), USA, Human Kinetics, 2011.

WEB LINKS

fitnessforlife.org

humankinetics.com

<http://www.nasss.org/journal/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	2 x 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1x10=10 (Answer any 1 out of 2 questions with 500 words each)

Other Component: Total Marks: 50

Case Studies/Assignment/Presentation/Review

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of Sociology for
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOLOGY OF POPULAR CULTURE

CODE: 23SC/GE/SP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To understand the concept of popular culture.
- To understand how popular culture conveys different cultural forms and expressions.
- To critically examine cultural capital in various popular culture contexts.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define theoretical concepts in Sociology of Popular Culture	K1
CO2	compare and Contrast the different popular culture expressions manifested in diverse cultural groups	K2
CO3	apply the perspectives in Sociology of Popular Culture to empirical examples in society	K3
CO4	analyze the changing socio-cultural dimensions of popular culture in contemporary context.	K4
CO5	critically appraise print and visual popular culture media	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Popular Culture-Introduction 1.1 Definition of Popular Culture 1.2 The Origin of Popular Culture 1.3 Cultural Construction-Basic Concepts 1.4 Stereotypes and Social Norms	K1- K6	8	1-5
2	Popular Culture-Dimensions 2.1 Taste Culture 2.2 Commercial Culture 2.3 Celebrity Culture 2.4 Youth Culture 2.5 Rock n' Roll Sub-Culture	K1-K6	10	1-5

UNIT	CONTENT	CL	HRS	CO
3	Popular Culture- Public Spaces and Conformity 3.1 Sexualization of Popular Culture 3.2 Hip-Hop Culture and Music 3.3 Video Games and Internet Popular Culture 3.4 Understanding the Audience Segmentation 3.5 Critical Analysis of Popular Culture Music	K1-K6	8	1-5

BOOKS FOR STUDY

Bryman, J. Robert, Sociology: Pop Culture to Social Structure. USA: Cengage Learning, 2013

Gans, J. Herbert, Popular Culture & High Culture: An Analysis and Evaluation of Taste. 2nd Edition. Basic Books, 2012

BOOKS FOR REFERENCES

Cashmore, Ellis, Celebrity Culture (Key Ideas). Routledge 2nd Edition, 2014

Kidd, Dustin, Pop Culture Freaks: Identity, Mass Media and Society, West View Press 1st Edition, 2014

Ousborne Jeff, Reading Pop Culture: A Portable Anthology. Bedford St. Martin's, 1st Edition, 2014

Smith, D. Allison et al, Pop Culture Zone: Writing Critically about Pop Culture. Cengage Learning, 1st Edition, 2008

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	2 × 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1 × 10 = 10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1 × 10 = 10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1 × 10 = 10 (Answer any 1 out of 2 questions with 500 words each)

Other Component: Total Marks: 50

Case Studies/Assignment/Presentation/Film/ Advertisement/Video Appraisal

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of Sociology for
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SYLLABUS

(Effective from the academic year 2023-2024)

GENDER STUDIES

CODE:23SC/GE/GS22

CREDITS: 2

L T P:2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To make students understand the difference between sex and gender
- To detail intersections of other social structures along with gender
- To examine issues of gender based violence.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to :

COs	DESCRIPTION	CL
CO1	identify concepts related to Sex, Gender and Sexuality	K1
CO2	develop understanding on the importance of a sociological perspective in learning about ideas of gender and equality.	K2
CO 3	reflect on gender based societal problems and relate to intersections of social structures.	K3
CO4	examine the role of Gendered Socialisation in society.	K4
CO5	critically analyze the impact of the Patriarchal system in gendered societal problems.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Gender and Society 1.1 Sex, Gender, and Sexuality: The Spectrum and terminologies 1.2 Intersectionality : (Ableism, Sexism, Classism, Casteism, Racism) 1.3 Cis-heteronormative Society	K1-K5	8	1-5
2	Gender and Socialisation 2.1 Family and Household 2.2 Education 2.3 Work, Labour, and Household Labour 2.4 Marriage, Property, and Inheritance 2.5 Biological and Social Mothering	K1-K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
3	Contemporary Issues 3.1 Rape, Honour and Shame/ Honour Killings, Victim Blaming, and Normalisation of Violence, Sexual Control of Women 3.2 Role of Media 3.2 Transphobia and Homophobia 3.4 Privacy and Section 377	K1-K6	8	1-5

BOOK FOR STUDY/REFERENCE

Jodi O'Brien (2009), Encyclopedia of Gender and Society, Vol 1 and 2, Sage Publications, Los Angeles, 2009.

Jackson, S., & Scott, S. (Eds.). Gender: A sociological reader. Psychology Press. 2002

Kumar, R. (1997). The history of doing: An illustrated account of movements for women's rights and feminism in India 1800-1990. Zubaan. 1997

WEB RESOURCES

<https://feminisminindia.com/>

<http://roundtableindia.co.in/>

Online GE videos of Gender Studies

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 =10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	2 x 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1×10=10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1x10=10 (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Movie/Magazine/Audio Review/Presentation

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of Sociology for
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SYLLABUS

(Effective from the academic year 2023-2024)

SOCIETY AND MEDIA

CODE: 23SC/GE/SM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To understand the relationship between media and society
- To explain the socio- political dimensions of media
- To acquaint the students with the concept of Alternative media and mobilisation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and understand media and its evolution	K1
CO2	examine how reality is constructed through media	K2
CO3	compare various approaches of media content at a socio- political context	K3
CO4	examine the influence of public opinion on society	K4
CO5	investigate the issues relating to social media and technology	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Media and Reality 1.1 Media as a source of Entertainment 1.2 Construction of Reality 1.3 Production and Consumption of Information 1.4 Media as Communication and Exchange, Development through Ages	K1-K4	8	1-5
2	Media and Politics 2.1 Ownership and State Regulation 2.2 Censorship 2.3 Public Opinion and consequence	K1-K5	8	1-5
3	Contemporary Issues 3.1 Social Media and Technology 3.2 Mainstream and Alternative media 3.3 Media Trials 3.4 Responsibility of Media	K1-K6	10	1-5

BOOKS FOR STUDY

Curran, J. P., & Gurevitch, M.. Mass Media and Society 4th edition, 2005
Kellner, D. Culture and Media., Sociology After Postmodernism, 138.1997

BOOKS FOR REFERENCE

Fiske, John. Television culture. Routledge, 2002.
Gunther, R., & Mughan, A. (Eds.).. Democracy and the media: a comparative perspective. Cambridge University Press. 2000
Marshall McLuhan, "The Medium is the Message" .1964
Mulvey, Laura. "Visual pleasure and narrative cinema." In Visual and other pleasures, pp. 14-26. Palgrave Macmillan, London, 1989.
Schudson, M.. The sociology of news production. Media, Culture & Society, 11(3), 263-282.1989
Uberoi, P. 'Imagining the Family: An Ethnography of viewing Hum Aapke Hain Kaun...' in Rachel Dwyer and Christopher Pinney (ed.) Pleasure and the Nation: The History, Politics and Consumption of Public Culture in India. UK: Oxford University Press, 2001
Srinivas, S.V. 'Film Culture, Politics and Industry', in seminar 525, pp.47-51, 2003
Potter, James W, Media Literacy. New Delhi: Sage, 1998.

WEB RESOURCES

Alternative media
<http://fuchs.uti.at/wp-content/uploads/altmedia.pdf>

PATTErN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	10	$2 \times 5 = 10$ (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
	K4	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	$1 \times 10 = 10$ (Answer any 1 out of 2 questions with 500 words each)

Other Components: Total Marks: 50

Seminar/Quiz/Presentation

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of Sociology for
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIETY AND LAW

CODE: 23SC/GE/SL22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To demonstrate the importance of legal awareness and legal literacy
- To acquaint the students with Indian legal system and Fundamental Rights
- To empower students and develop knowledge on Rights of individuals and society

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the basic concepts in Legal Literacy	K1,K2
CO2	compare different social legislations applicable for different religions	K3
CO3	analyse the role of social legislations for the development of nation.	K4
CO4	apply social legislations for the cause of women and children issues	K5
CO5	assess the role of legal literacy as a tool for social justice	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Legal Literacy 1.1 Definition of Legal Literacy 1.2 Legal Literacy- a tool for social justice 1.3 Public Interest Litigation 1.4 Legal aid Services in India 1.5 Right to Information Act 2005	K1- K2	8	1-5
2	An Introduction to Indian Legal System and Marriage Laws 2.1 Fundamental Rights and Writs 2.2. FIR- The requisites and Process 2.3 Hindu Marriage Act, 1955. 2.4. Special Marriage Act 1954 2.5 Indian Christian Marriage Act 1872 2.6 Triple Talaq bill	K1-K4	10	1-5

UNIT	CONTENT	CL	HRS	CO
3	Women, Children and Law 3.1 Dowry Prohibition Act, 1961 3.2 Domestic Violence Act 2006 3.3 The Protection against Sexual Harassment of Women Act 2013 3.4 Protection of Children from Sexual Offences Act 2012 3.5 Juvenile Justice Act 2000 (Care and Protection of Children's Act)	K1-K5	8	1-5

BOOKS FOR STUDY

Indra Deva Sociology of Law, New Delhi Oxford University Press, 2005.

Jain M.A., Indian Constitutional Law (with Constitutional Documents) (in 2 Vols.). New Delhi, Jain book publishers 2013.

BOOKS FOR REFERENCE

Ganguly, The Protection of Children from Sexual Offences Act, Dwivedi & Company, 2020

Gaur, K.D., Criminal Law: Cases and Materials. Lexis Nexis 7th Edition, 2013

Khan, M., Islamic law and Marriage, Discover publishing Pvt Ltd 2016.

Pillai, P.S.A., Criminal Law. Lexis Nexis Butterworths Wadhwa Nagpur Publishers, Tenth Edition, 2010

Ratanlal, Dhirajlal Indian Penal Code. Lexis Nexis Publishers, 2012

Ratanlal, Dhirajlal Code of Criminal Procedure. Lexis Nexis Publishers, 2012

Ratanlal, Dhirajlal The Law of Evidence. Lexis Nexis India, 2013

Seervai H.M., Doyen of Indian Constitutional Law. Universal law publishers, New Delhi, 2012.

Srinivasan., Special Marriage Act Law Publishers (India) pvt ltd, 2022.

WEB LINKS: www.legalservicesindia.com/ SupremeCourtJudgements

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each))
B	K2	10	2 x 5 = 10 (Answer any 2 out of 4 questions in 100 words each)
C	K3	10	1 × 10 = 10 (Answer any 1 out of 2 questions in 500 words each)
	K4	10	1 × 10 = 10 (Answer any 1 out of 2 questions in 500 words each)
D	K5	10	1 × 10 = 10 (Answer any 1 out of 2 questions with 500 words each)

Other Components:

Total Marks: 50

Seminar/Quiz/Presentation

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from Academic year 2023-2024)

SOCIAL NETWORKING

CODE: 23SC/UI/SN23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To introduce the students to the concept of social networking and its development
- To examine various spaces of network building
- To illustrate the varied perspectives of network as an area of study
- To explore the emerging social dimensions in information age
- To evaluate the impact of networks on social groups.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define concepts in social networking	K1
CO2	compare and contrast the basic concepts in social networking	K2
CO3	apply the perspectives in social networking to social events	K3
CO4	critically analyze the socio-economic, political and economic factors of social networking in contemporary society and impact of cyberspace on human social interaction and communication	K4,K5
CO5	construct case-studies of social network analysis with the emergence of artificial intelligence and enablers	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	CO
1	Meaning of Social Networking 1.1 Perspectives on community - Tonnies, Wellman, Berman, and Oldenberg 1.2 Concept of Social Networking 1.3 History of Social Network Analysis 1.4 Mark Granovetter's concept of 'Strength of weak ties'	K1- K6	1-5
2	Social Capital 2.1 Concept of Social Capital – Putnam, Coleman, Portes 2.2 Social Networking and Social Relationships – Social 2.3 Networking and Interpersonal Communication 2.4 Networks of Reciprocity; Putnam's Norms of trust	K1-K6	1-5
3	Social Networking and Cyberspace 3.1 Roots and visions of social cyberspace – Social Cyberspace in the past 3.2 Origin and development of social media as a lens for viewing the evolution of the institutional, social, and technological aspects of today's cyberfied world 3.3 Manuel Castell's Network Society	K1-K6	1-5
4	Imagining community and discussing it virtually 4.1 Network society - Online social networks - Community- centered online media (and offline life) and Networked individualism 4.2 Virtual Community and Real Life -Ways online social activities change our lives 4.3 Relationships, Communities - Control over our communication practices, design of technologies, values	K1-K6	1-5
5	Collective action and Public opinion – Social Networking Perspective 5.1 Power of social cyberspaces to organize collective action in the physical world 5.2 Public opinion in internet era – Online discourses and the health of democracy	K1-K6	1-5

BOOKS FOR REFERENCE

Barabási, A. *Linked: The New Science of Networks*. Cambridge: Perseus Books Group.2002.
Berman, M. *All That is Solid Melts Into Air: The Experience of Modernity*. New York: Penguin, 1988.
Oldenburg, R. *The Great Good Place*. New York: Marlowe, 1991.
Ostrom, E. *Governing the Commons: The Evolution of Institutions for Collective Action*. Cambridge: University Press, 1990, pp 1-28
Resnick P. *Beyond Bowling Together: Sociotechnical Capital. Human-Computer Interaction in the New Millenium*. edited by John Carroll. New Delhi: Dorling Kindersly, , 2007.

JOURNALS:

Granovetter M., *The Strength of Weak Ties, A Network Theory Revisited, Sociological Theory*. 1983
Turner, F., *Where the counterculture met the new economy: the WELL and the origins of virtual community, Technology and Culture*. Volume 46, Number 3, July 2005, pp. 485- 512 available online as PDF.

WEB RESOURCES

http://cyber.eserver.org/vr_comun.txt.
<http://www.fantrust.com/2007/10/trebor-scholz-history-of-the-social-web/>
Rheingold H., *A Slice of Life in My Virtual Community*. 1992.-
http://www.cs.indiana.edu/docproject/bdgtti/bdgtti_18.html
Rheingold, H., *The Heart of The Well*. from *The Virtual Community*, available online, 1993.-<http://www.rheingold.com/vc/book/>

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH III – SOCIOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE SOCIAL RESPONSIBILITY

CODE:23SC/UI/CS23

CREDITS:3

OBJECTIVES OF THE COURSE

- To enable students to understand the nature of corporate governance.
- To familiarize theoretical framework of CSR and the legal guidelines developed to undertake CSR
- To gain knowledge on CSR and CSR related activities of companies
- To interpret the connection between the CSR responsibilities and the development of the society
- To outline the contribution of CSR to development of the nation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic concepts in CSR	K1
CO2	compare the contribution of different companies in various areas of development	K2,K3
CO3	analyze the benefits of CSR to companies and society	K4
CO4	evaluate the relevance of different CSR theories in the contemporary period	K5
CO5	develop CSR skills and helps in having a career in the field of CSR	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Concept of Corporate Social Responsibility- Meaning, Nature Characteristics of CSR 1.2 History of Corporate Social Responsibility 1.3 Current CSR model – from charity to responsibility 1.4 Global Scenario 1.5 Social Auditing in CSR	K1	13	1

UNIT	CONTENT	CL	HRS	CO
2	Theories and Development of CSR strategy 2.1. Theories of CSR 2.1.1 The Stakeholder Theory 2.1.2 Social Contract Theory 2.1.3 The Business Ethics Theory 2.2 Essential components for development of CSR strategy 2.3 Benefits of CSR to organizations 2.4. Corporate Citizenship – a new way to market CSR	K1-K5	13	2
3	Trends in CSR 3.1 Rural Development 3.2 Infrastructural Development 3.3.Environmental Sustainability 3.4 Human Rights 3.5. Health and Education 3.6. Women Employment and Capacity Building 3.7 Disaster Management and Relief Work	K1-K6	14	3
4	CSR in India 4.1 Company Act 2013 and CSR 4.2 CSR Summits and Objectives 4.3 CSR policy initiatives in India	K1-K6	13	4
5	Case Studies 5.1 Nestle 5.2 ITC 5.3 Srinivas Trust - TVS 5.4 Arvind Eye Hospital 5.5 Jindal Stainless Steel foundation	K1-K6	12	5

BOOKS FOR STUDY

Agarwar Sanjay K., Corporate Social Responsibility, New Delhi, Sage Publication 2008
Samuel O Idou(ed) Dictionary of Corporate Social Responsibility:CSR, Sustainability and Ethics, New York, Springer, 2015

BOOKS FOR REFERENCE

Agarwal, S K.,Corporate Social Responsibility in India. New Delhi: Response Books, 2008.
Baxi, C. V Corporate Governance, CA: Excel books 2007.
Donald, H., Corporate Governance at the cross roads, TMH, 2007.
Mallin, Chris A. Corporate Social Responsibility: A case study approach, Massachusetts: Edward Elgar Publishing Ltd., 2009
Mallin, Christine .A. Handbook of International Corporate Governance, Massachusetts:Edward Elgar, 2011.
Mathur, U.C. ,Corporate Governance & Business Ethics, Chennai: Macmillan, 2005.
Prasad, K., Corporate Governance. New Delhi: PHI, 2006.

May, S., George Cheney, Juliet Roper (Ed.). The debate over corporate social responsibility. New Delhi: Oxford University Press, 2007.

Panda, S. K., Corporate Social Responsibility in India Past Present and Future, The ICFAI University Press, 2008.

Singh, S Corporate Governance, New York: Excel books, 2005.

Weston, Fred, J., Takeovers. Restructuring & Corporate Governance, New Delhi: Pearson Education, 2007.

WEB RESOURCES

https://www.researchgate.net/publication/313837646_A_case_study_on_Corporate_Social_Responsibility_in_NESTLE_TATA_ITC

<https://pdfs.semanticscholar.org/b4fa/d78430c5052282dc739e466faf2c48f6cf75.pdf>

<https://www.unwe.bg/uploads/Alternatives/A09-03.2013.pdf>

IBM: CSR

<https://www.youtube.com/watch?v=PdkYieDuVvY>

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$20 \times 1 = 20$ (Fill in/ T or F/ Match/ One word (All questions to be answered in a word each)
B	K2	20	$4 \times 5 = 20$ (Answer any 4 out of 6 questions in 100 words each)
C	K3/K4	40	$2 \times 20 = 40$ (Answer any 2 out of 4 questions choosing within subdivisions with 1000 words each)
D	K5	20	$2 \times 10 = 20$ (Answer any 2 out of 4 questions with 500 words each)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.A. DEGREE
Branch IV ECONOMICS
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ECONOMICS

B.A DEGREE: BRANCH IV – ECONOMICS

PROGRAMME DESCRIPTION

The programme provides a solid foundation in economic theory, statistics and econometrics so as to develop a thorough understanding of both theoretical and empirical approaches to economics. It provides a strong grounding in critical thinking and analytical skills that will facilitate students to carry out applied economics research. Students will be able to evaluate economic issues and formulate informed opinions on policy issues and recognise the validity of opposing viewpoint.

The programme will promote Co-Curricular activities like research, internships, certificate courses etc. It will focus on achieving high academic standards so as to strengthen student's competitiveness.

VISION OF THE DEPARTMENT

- Uphold high standards of academic excellence in teaching and research
- Interact with academic, research, government and nongovernment institutions in order to promote academic activities like research, internships, training etc.,
- To grow to gain wide spread recognition for Postgraduate and Ph.D. programmes

MISSION OF THE DEPARTMENT

- To provide a strong theoretical foundation in Economics
- To train and equip students with requisite skills to carry out applied economics research.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.A. Economics Programme, the students will be able to

PSO1	exhibit the ability to evaluate arguments and analyse policies/theories and practices leading to employability and entrepreneurship
PSO2	display proficiency in communication skills and the ability to express thoughts and ideas creatively and effectively
PSO3	be equipped to use their knowledge and skills to critically and creatively respond to real-life situations
PSO4	to understand, respect and respond to multiple points of view and subject positions
PSO5	sensitively engage with environmental/cultural/socio-economic, and political concerns

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.A. Economics 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	4	5	4	5	4	5	4	5	4	5	4	5	24	30
Major Core	3	4	4	5	3	4	4	5	4	5	4	5	22	28
									4	5	2	2	6	7
									3	4			3	4
Major Core Practical											5	6	5	6
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	111
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1				1				1	0	3
Mentoring		1		1		1		1		1		1	0	6
											Total		4	11
Total	26	30	25	30	25	30	24	30	24	30	25	30	149	180

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23EC/MC/ME14	Microeconomics - I	4	4	1	0	3	50	50	100
23EC/MC/IE13	Indian Economic Development	3	3	1	0	3	50	50	100
23EC/AC/SE15	Statistics for Economics	5	5	0	0	3	50	50	100
Allied Core offered to students of Commerce(General - Shift I and II) by Dept. of EC									
23EC/AC/BE15	Business Economics	5	5	0	0	3	50	50	100
23EC/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23EC/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
SEMESTER-II									
23EC/MC/ME24	Microeconomics - II	4	4	1	0	3	50	50	100
23EC/MC/RT24	Regional Economics - Tamil Nadu	4	4	1	0	3	50	50	100
23EC/AC/MM25	Mathematical Methods for Economics	5	5	0	0	3	50	50	100
Allied Core offered to students of Commerce(Corporate Secretaryship) by Dept. of EC									
23EC/AC/EB25	Economic Environment of Business	5	5	0	0	3	50	50	100
23EL/SS/PD13	Life Skills: Personality Development (EL)	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23EC/MC/EE33	Environmental Economics	3	3	1	0	3	50	50	100
23EC/MC/BE34	Behavioural Economics	4	4	1	0	3	50	50	100
23EC/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
Allied Core offered to students of Economics by Dept. of Psychology									
23PY/AC/FC35	Fundamentals of Consumer Behaviour	5	5	0	0	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23EC/MC/PF44	Public Finance	4	4	1	0	3	50	50	100
23EC/MC/MO44	Monetary Economics	4	4	1	0	3	50	50	100
23EC/AC/EM45	Introductory Econometrics	5	5	0	0	3	50	50	100
	Major Elective-I								
SEMESTER-V									
23EC/MC/MA54	Macroeconomics - I	4	4	1	0	3	50	50	100
23EC/MC/PP53	Public Policy	3	3	1	0	3	50	50	100
23EC/MC/DE54	Development Economics	4	4	1	0	3	50	50	100
23EC/MC/IN54	International Economics	4	4	1	0	3	50	50	100
Interdisciplinary Core (EC and PH) to students of Economics and Physics									
23ID/IC/RE55	Renewable Energy and Energy Economics	5	5	1	0	3	50	50	100
	General Elective III								
	SAP / SL								

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-VI										
23EC/MC/MA64	Macroeconomics - II	4	4	1	0	3	50	50	100	
23EC/MC/DA65	Data Analytics and Economic Analysis Practical	5	0	0	6	3	50	50	100	
23EC/MC/ET64	History of Economic Thought	4	4	1	0	3	50	50	100	
23EC/MC/GE62	Introduction to Gender Economics	2	2	0	0	-	50	-	100	
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100	
	General Elective IV									
	Major Elective II									
Major Electives										
23EC/ME/MT45	Marketing	5	5	0	0	3	50	50	100	
23EC/ME/MF45	Financial Markets	5	3	0	2	3	50	50	100	
23EC/ME/RA45	Economic Research and Analysis	5	2	0	3	-	50	50	100	
23EC/ME/AG45	Agricultural Economics	5	3	0	2	3	50	50	100	
23EC/ME/AM45	Applied Mathematics	5	5	0	0	3	50	50	100	
23EC/ME/HE45	Health Economics	5	5	0	0	3	50	50	100	
General Electives										
23EC/GE/EI22	Economic Issues	2	2	0	0	-	50	-	100	
23EC/GE/MM22	Money Matters	2	2	0	0	-	50	-	100	
23EC/GE/PP22	Public Policy	2	2	0	0	-	50	-	100	
23EC/GE/WW22	Women and Work	2	2	0	0	-	50	-	100	
23EC/GE/EF22	Ecofeminism	2	2	0	0	-	50	-	100	
The Department will offer one Social Awareness Course										
Social Awareness Courses										
23EC/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100	
23EC/SA/CR52	Child Rights	2	2	0	0	-	50	-	100	
23EC/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100	
23EC/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100	
23EC/SA/MH52	Ecofeminism	2	2	0	0	-	50	-	100	
23EC/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100	
23EC/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100	
23EC/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100	
23EC/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100	
Independent Electives										
23EC/UI/MG23	Managerial Economics	3	0	0	0	3	-	100	100	
23EC/UI/NL23	Nobel Laureates in Economics	3	0	0	0	3	-	100	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

MICROECONOMICS - I

CODE:23EC/MC/ME14

CREDITS:4

L T P: 4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To understand the concepts related to resource allocation.
- To apply consumer behaviour in relation to demand for products
- To analyse cost function within firms and industries
- To demonstrate the equilibrium of the firm
- To evaluate the behaviour of firms in perfect and in monopoly market.

COURSE LEARNING OUTCOMES

On Successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	interpret different definitions/concepts and experiment with it	K1
CO2	construct simple models through surveys to study the household behaviour	K2
CO3	examine the behaviour of production – consumption relationship and apply it in decision making process,	K3
CO4	critically evaluate the market situations	K4
CO5	discuss the relevance of microeconomic principles to contemporary needs	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1	12	1-5
	1.1 Basic Economic Issue- Resource Allocation			
	1.2 The Simple theory of demand of households –the demand function –Elasticity of Demand and its significance	K1		
	1.3 The Simple Theory of supply of firms –the supply function –Elasticity of supply – Marshall’s classification of time and elasticity of supply	K1-K2		
	1.4 The elementary theory of price determination –Static, Comparative static and dynamic explanations, Lagged Adjustment of supply and demand to price changes	K1-K3		
	1.5 Application: Analysis of allocating scarce resource at the house hold level	K1-K5		

UNIT	CONTENT	CL	HRS	CO
2	Theory of Consumer Behaviour	K1-K2	13	1-5
	2.1 Cardinal Utility Approach –Conceptual Framework	K1-K2		
	2.2 Ordinal Utility Approach –Assumptions, Properties	K1-K2		
	2.3 Budget Constraint and consumer equilibrium	K1-K3		
	2.4 Income, Substitution and Price Effects – Slutsky’s Theorem, Derivation of demand curve	K1-K5		
	2.5 Application: study how consumers unmet needs are identified and fulfilled in the market.	K4-K5		
3	Production and Cost	K1-K2	16	1-5
	3.1 Production function –meaning and kinds			
	3.2 The law of variable proportions	K1-K3		
	3.3 Cobb-Douglas Production function	K3-K4		
	3.4 Isoquants and Iso-cost lines	K1-K4		
	3.5 Laws of Returns	K3-K4		
	3.6 Producers choice of least cost combination of inputs	K3-K5		
	3.7 Production function and cost function –Interrelationship	K1-K5		
	3.8 The theory of costs- cost concepts, long run and short run cost curves	K1-K5		
	3.9 Application: Analyse how business firms decide the quantity of outputs to produce in response to demand	K5		
4	Equilibrium of the Firm	K1-K2	8	1-5
	4.1 TR and TC functions			
	4.2 Conditions for equilibrium of a profit maximising firm	K1-K3		
	4.3 Revenue functions and their relation to demand and elasticity	K1-K4		
	4.4 Application –Calculation of cost using Industrial data	K5		
5	Market Structure and Competitive Strategy	K1-K2	16	1 -5
	5.1 Classification of markets –Meaning of perfect and imperfect competition			
	5.2 Price and Output determination in Perfect competition	K1-K3		
	5.3 Short Run equilibrium of firm and industry	K1-K4		
	5.4 Long run equilibrium of firm and industry –Concepts of normal price and normal profit	K1-K4		
	5.5 Equilibrium of the monopolist	K1-K3		
	5.6 Price discrimination –Equilibrium of a discriminating monopolist	K1-K5		
	5.7 Application: Study the market structure for different products in perfect and/or monopoly market	K5		

BOOKS FOR STUDY

Pindyck, Robert. S. and Rubinfeld. L. Daniel. *Microeconomics*. 9thed. Boston: Pearson, New Delhi, 2018.

Nicholson, Walter & Christopher. Snyder. M. *Microeconomic Theory. Basic Principles and Extensions*. 11thed. Ohio: South Western, 2011.

Ahuja, H.L, *Advanced Economic Theory: Microeconomic Analysis*, S. Chand, New Delhi, 2017.

BOOKS FOR REFERENCE

Koutsoyiannis, A, *Modern Microeconomics*. Second edition, New Delhi, Macmillan Press, 2018

Maddala, G.S and E Miller, *Microeconomics*. New York, McGraw-Hill International edition, 1989.

Varian, Hal R. *Intermediate Microeconomics*. New Delhi, Affiliated East West Press, 2010.

Bernheim, B., Whinston, M. *Microeconomics*. India, Tata McGraw- Hill. 2009

JOURNALS

Journal of Applied Economics

Studies in Microeconomics

WEB RESOURCES

<http://www.stern.nyu.edu/networks/micnotes/micnotes.pdf>

<http://ocw.mit.edu/courses/economics/14-01-principles-of-microeconomics-fall-2007/lecture-notes/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions – short answers
B	K3	20	4x 5 =20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 =20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/ME14												
I	Course Title: MICROECONOMICS - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	2	3	2	2	2	3	2	3	3	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	2	2	2	2	2	2	3	3	2
CO 4	2	3	2	3	2	1	2	2	3	2	3	3	2
CO 5	3	3	3	2	2	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

INDIAN ECONOMIC DEVELOPMENT

CODE: 23EC/MC/IE13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To cultivate in the students an awareness of the state of the Indian economy at the time of independence
- To develop in the students an awareness of the basic issues and problems pertaining to the Indian Economy
- To inculcate knowledge on the process of economic growth and planning in Indian industrial economy
- To motivate the students to take an active interest in the current economic policies in India
- To provide an understanding of the growth and development of key sectors in the Indian economy

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and describe the key issues related to economic growth with reference to the Indian economy	K1
CO2	discuss the issues/challenges faced by the Indian economy	K2
CO3	classify the problems and prospects related to the development of the primary, secondary and tertiary sectors of the economy	K3
CO4	analyse the relevance of existing policy measures	K4.
CO5	critically evaluate the problems and challenges faced by the Indian economy	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Indian Economy at the Time of Independence	K1–K2	8	1-5
	1.1 An Overview of the Indian Economy at the Time of Independence	K1-K5		
	1.2 New Economic Policy – Globalization, Liberalisation and Privatisation- An overview			
	1.3 Features of a developing economy – India as an emerging economy.	K1–K4		

UNIT	CONTENT	CL	HRS	CO
	1.4 Major Issues facing the Indian economy – Poverty, Unemployment and Growth.	K1–K4		
	1.5 Overview of Planning in India from 1951 to 2017 – Role of NITI Aayog	K1-K5		
2	Role of Agriculture in the Indian Economy		10	1-5
	2.1 Role of Agriculture-Agriculture and Economic Growth	K1-K5		
	2.2 Indian Agriculture and productivity	K1–K3		
	2.3 Institutional Reforms - Land Reforms and Technological Reforms - Green Revolution –Need for a second Green Revolution	K1–K5		
	2.4 Agricultural Price Policy – Objectives and Instruments	K1-K5		
	2.5 The Agrarian Crisis and Farmer’s Distress	K1-K3		
3	Indian Industrial Sector	K1–K5	14	1-5
	3.1 Industrial Policy – Industrial (Development and Regulation) Act (IDRA) 1951 - Industrial Policy since 1991– Foreign Exchange Management Act (FEMA) 1999 - Competition Act 2002			
	3.2 Industrial Growth – Performance of the Indian Industrial Sector 1991	K1-K5		
	3.3 Public Sector Enterprises – Meaning – Role and Performance of Public Sector Enterprises, Disinvestment.	K1-K5		
	3.4 Small Scale Industries – Case for Small Scale Industries – Problems of Small Scale sector – Policy for the Small Scale sector	K1-K5		
	3.5 MSME – Growing Importance and Policy Issues	K1-K5		
4	Service Sector in India	K1-K3	10	1-5
	4.1 Role of the Service Sector			
	4.2 Contribution of the Service Sector to Economic Growth	K1-K5		
	4.3 Trends in Performance of the Service Sector	K1-K4		
5	India’s External Sector	K1-K4	13	1 -5
	5.1 Foreign Trade-Structure, Direction and Trends			
	5.2 Balance of Payments-Structure and Components	K1–K3		
	5.3 Trends in India’s Balance of Payments	K1–K5		

BOOKS FOR STUDY

Agrawal, A.N, Agrawal M.K. Indian Economy: Problems of Development and Planning, New Delhi: New Age International Publishers. 2017

Kapila, U. Indian Economy: Economic Development and Policy in India. New Delhi: Academic Foundation. 2018.

Puri, V. K., & Misra, S. K. Indian Economy. Mumbai: Himalaya Publishing House. 2018.

Ishwar C. Dhingra, Indian Economy, Environment and Policy, New Delhi: Sultan Chand & Sons 2010.

BOOKS FOR REFERENCE

Datt, Ruddar and K.P.M. Sundaram, Indian Economy, New Delhi: S. Chand and Co., 2010

Dhar P.K., Indian Economy, Ludhiana: Kalyani Publishers, 2010

Jhingan M.L. The Economics of Development and Planning, New Delhi: Vrinda Publications (P) Ltd. 2007.

Kuchhal, S.C. and Puri, The Industrial Economy of India, New Delhi: Chaitanya Publishing House, 1996.

Misra S.K. and V.K. Puri, Development and Planning: Theory and Practice, New Delhi: Himalaya Publishing House, 2006.

Parikh, Kirit., India Development Report (ed.), New Delhi: Indira Gandhi Institute of Research and development, Oxford University Press, 2004.

REPORTS:

Economic Survey – Various issues since 2000

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – ALL COMPULSORY
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions – short answers
B	K3	20	4x 5 =20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 =20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/IE13												
I	Course Title: INDIAN ECONOMIC DEVELOPMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	3	3	2	3	2	3	2	3
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CO 3	3	3	2	2	3	2	2	3	3	3	2	3	3
CO 4	3	3	2	2	3	3	3	3	3	3	3	3	3
CO 5	3	3	2	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

STATISTICS FOR ECONOMICS

CODE:23EC/AC/SE15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide a solid foundation in statistics alongside economic applications.
- To demonstrate application of a range of statistical tools to existing economic theories.
- To provide an understanding of statistical tools and statistical inference.
- To enable students to analyse survey data and draw conclusions based on empirical evidence.
- To encourage rational decision making, analysing risks and evaluating alternatives in the presence of uncertainty.

COURSE LEARNING OUTCOMES

On Successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe and analyse data appropriately, interpret the results accurately and draw conclusions.	K1
CO2	apply statistical methods to verify simple economic laws / theories.	K2
CO3	critically evaluate and interpret statistical information published by governmental and non-governmental sources.	K3
CO4	awareness of ethical considerations and limitations associated with statistical analysis and address issues pertaining to data bias and privacy.	K4
CO5	develop the ability to use scientific methods of research and create models for solving socio-economic issues.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENTS	CL	HRS	CO
1	Summary Statistics		10	1- 4
	1.1 Levels of Data-nominal, ordinal, interval and ratio			
	1.2 Measures of Central Tendency	K1 - K5		
	1.3 Measures of Dispersion	K1 - K5		
	1.4 Measures of deviation from normality Skewness and Kurtosis	K1 - K5		
	1.5 Frequency distributions - Exploring data with graphs	K1 – K5		

UNIT	CONTENTS	CL	HRS	CO
2	Simple Linear Correlation and Regression Analysis		15	1- 5
	2.1 Introduction to correlation analysis	K1 - K4		
	2.2 Types of correlation	K1 - K4		
	2.3 Methods to estimate correlation	K3 – K5		
	2.4 Testing the significance of correlation coefficient	K3 - K5		
	2.5 Introduction to regression analysis	K1 - K4		
	2.6 Methods of least squares estimation	K3 – K5		
	2.7 Goodness of fit measures	K1 – K5		
	2.8 Testing overall significance of the model ANOVA	K3 – K5		
3	Theory of Probability		15	1 - 4
	3.1 Introductory concepts	K1 - K3		
	3.2 Additive and Multiplicative theorems, Conditional Probability, Bayes theorem	K1 - K4		
	3.3 Random variables and Probability distribution – Concepts	K1 - K4		
	3.4 Theoretical probability distribution Binomial, Poisson and Normal Distribution	K1 - K4		
4	Testing of Hypothesis		15	1- 5
	4.1 Introduction to statistical hypothesis testing	K1 - K3		
	4.2 Comparing two means	K2 - K5		
	4.3 Comparing several means one-way ANOVA	K2 - K5		
	4.4 Large sample test Standard Error	K1 - K5		
5	Time Series Analysis		10	1- 5
	5.1 Concepts and Components of time series data	K1 - K5		
	5.2 Measurement of trends Graphical, Moving Average Method, Least Square Method, Fitting of Linear Trend Curves	K1 – K5		

BOOKS FOR STUDY

Gupta, S.P. *Statistical Methods*, 46th edition. New Delhi: Sultan Chand. 2019.

Gupta, S.C. & V.K. Kapoor. *Fundamentals of Applied Statistics*. New Delhi: Sultan Chand, 2014.

A.L, Nagar & R.K. Da. *Basic Statistics*, 2nd Edition. New Delhi: Oxford University Press. 1997

BOOKS FOR REFERENCE

Salvatore, D. *Mathematics and Statistics, Schaum's Series*. New Delhi: Tata McGraw Hill. 2001

Padmalochan, Hazarika. *Essential Statistics for Economics and Commerce*. New Delhi: Akansha Publishing House, 2006.

Monga, G.S. *Mathematics and Statistics for Economics*, Second revised edition. Vikas Publishing House. 2001

WEB RESOURCES

<http://www.economics.utoronto.ca/jfloyd/stats/ecstats.pdf>

<http://ocw.mit.edu/courses/economics/14-30-introduction-to-statistical-method-in-economics-spring-2006/lecture-notes/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
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C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
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	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 =20 (600 words each) 2 out of 4 questions

UNIT 1 – Not to be tested for Continuous Assessment and End semester examination. A minor project will be given to students in this unit as third component which will be tested.

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/AC/SE15												
I	Course Title: STATISTICS FOR ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	1	1	1	3	2	3	2	2
CO 2	3	3	3	2	3	1	1	1	3	2	3	2	2
CO 3	3	3	3	3	3	1	1	1	3	3	3	2	2
CO 4	3	3	3	3	3	1	1	1	3	3	3	2	2
CO 5	3	3	3	3	3	1	1	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS ECONOMICS

CODE: 23EC/AC/BE15

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the fundamental concepts, principles, and theories of economics.
- To enable students to analyse and evaluate supply decisions in various business contexts.
- To equip students with the skills to calculate and analyse cost and revenue data for business decision-making.
- To enable students to analyse the behavior of firms and the market outcomes under various market structures.
- To explore the role of government policies in influencing business cycles and promoting macroeconomic stability.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and describe concepts in economics that relate to business decisions making	K1
CO2	identify and illustrate how various micro and macroeconomic factors affect the business environment	K2
CO3	apply the standard analytical tools of applied economic analysis to business situations	K3
CO4	examine the role of consumer and producer behavior and market structures in business decision making	K4
CO5	evaluate the impact and related policy solutions of microeconomic and macroeconomic factors.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1 - K4	18	1-5
	1.1 Basic Economic problems-Role of price Mechanism	K1 – K4		
	1.2 Tools for Economic Analysis-Indifference Curves, Isoquants, Budget Line and Production Possibility Frontier	K1 – K4		
	1.3 Law of demand, determinants of demand, change in demand and amount demanded	K1 – K4		
	1.4 Elasticity of demand –Types – Price elasticity – factors influencing elasticity of demand, importance of price elasticity of demand, Income and Cross elasticity. Applications of elasticity of demand	K1 - K5		
	1.5 Estimating demand –Importance and Scope of demand forecasting –Techniques of demand forecasting -complete enumeration survey, sample survey, Delphi Technique, Statistical methods – trend analysis, regression	K1 – K5		
2	Supply and Production	K1 - K4	10	1-5
	2.1 Law of Supply and its determinants	K1 – K3		
	2.2 Elasticity of supply	K1 – K3		
	2.3 Short and Long run Production Functions- Law of diminishing returns- Returns to scale	K1 – K4		
	2.4 Producers Equilibrium-Least cost combination of factors	K1 – K4		
3	Cost and Revenue	K1 – K4	12	1-5
	3.1 Concepts of Cost and Revenue	K1 – K4		
	3.2 Relation between average and marginal cost curves	K1 – K4		
	3.3 Long run Average Cost Curves and Marginal Cost Curves	K1 – K4		
	3.4 Economies of scale (internal and external economies and diseconomies)	K1 - K4		
	3.5 Break-Even Analysis –An Overview	K1 – K4		
4	Objectives of the Firm and Market Structure	K1- K2	12	1-5
	4.1 Profit, Growth, Sales, Utility Maximization (Brief Knowledge)	K1- K5		
	4.2 Perfect Competition, Monopoly, Monopolistic Competition ,Oligopoly- Features	K1 – K4		
	4.3 Equilibrium and price determination under Oligopoly-Kinked Demand, Price Leadership, Cartels	K1 – K4		
	4.4 Importance of advertising and selling costs	K1 – K4		
5	Unit 5 Business Cycles and Policies	K1 – K4	13	1 -5
	5.1 Business Cycles-Meaning, Characteristics, Types, Causes	K1 - K4		
	5.2 Inflation-Types of Inflation	K1 – K4		
	5.3 Causes and Effects of Inflation	K1 – K4		
	5.4 Measures to Correct Economic Fluctuations- Monetary and Fiscal Policy	K1 – K5		

BOOKS FOR STUDY

Ahuja H.L. Business Economics Micro, New Delhi: S. Chand and Co, 2010. Gregory, N. Mankiw. Principles of Macroeconomics: New York, Worth Publishers Press 2009

BOOKS FOR REFERENCE

Robert, S. Pindyck, Daniel and L. Rubinfeld, Prem L. Micro Economics. New Delhi: Pearson Education, 2005

Richard. T. Froyen. Macroeconomics-Theories and Policies. New Delhi: Pearson 2012 Samuelson, Paul. A. and Nordhaus William D. Economics, New York: McGraw Hill. 2018 Sundharam K.P.M and E.N Sundharam. Micro Economics. New Delhi: Sultan Chand, 2009. Seth, M.L. Micro Economics, Agra: Lakshmi Narain Agarwal Educational Publishers, 2009.

JOURNALS

Journal of Economics and Business

Journal of Microeconomics

WEB RESOURCES

<http://home.manhattan.edu/~fiona.maclachlan/costcurves.pdf>

<http://www.nber.org/chapters/c2662.pdf>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
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Other Components:

Total Marks: 50

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

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**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/AC/BE15												
I	Course Title: BUSINESS ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	2	2	3	1	2	2
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CO 3	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 4	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 5	3	3	3	2	3	2	2	2	2	3	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23EC/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23EC/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group discussions
- Group presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

MICROECONOMICS - II

CODE: 23EC/MC/ME24

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To understand the concepts related to resource allocation.
- To apply consumer behaviour in relation to demand for products
- To analyse cost function within firms and industries
- To demonstrate the equilibrium of the firm
- To evaluate the behaviour of firms in perfect and in monopoly market.

COURSE LEARNING OUTCOMES

On Successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	infer different definitions/concepts	K1
CO2	construct simple models through surveys to study the household behaviour	K2
CO3	examine the behaviour of production – consumption relationship and apply it in decision making process,	K3
CO4	critically evaluate the market situations	K4
CO5	discuss the relevance of microeconomic principles to contemporary needs	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Product Pricing under Imperfect Competition	K1 - K2	11	1-5
	1.1 A critique of perfect completion –Meaning of Imperfect Competition			
	1.2 Monopolistic Competition –Meaning and Features	K1 - K2		
	1.3 Price and Output Determination in the short run and in the long run	K1 - K4		
	1.4 Selling Costs, Product Differentiation and their impact on demand curves	K1 – K4		
	1.5 Excess Capacity of Monopolistic Competition	K4		
	1.6 Application: Applying the Market Model to the current Indian Market situation through market survey	K5		

UNIT	CONTENT	CL	HRS	CO
2	Oligopoly	K1 – K2	14	1-5
	2.1 Features of Oligopoly			
	2.2 Price determination under non-collusive Oligopoly: Cournot, Edgeworth	K2 – K5		
	2.3 Kinked Demand Curve	K3 – K5		
	2.4 Price determination under collusive Oligopoly: Cartels and Price Leadership	K3 – K5		
	2.5 Game Theory: An elementary concept exposition – Nash, Dominant, Maximum strategies	K4 – K5		
	2.6 Application: Applying the different market models to the current Indian Market Situation through market survey	K5		
3	The Factor Market and the Theory of Factor Pricing	K1 - K2	13	1-5
	3.1 Four fold classification of factors			
	3.2 The demand for factors – Marginal Productivity Theory	K2 - K4		
	3.3 The supply of factors	K2 – K4		
	3.4 Determination of factor pricing under Perfect and Imperfect Competition in Factor and Product Markets	K3 – K5		
	3.5 Adding-up problem	K3 -K5		
4	Wages, Rent, Interest and Profits		15	1-5
	4.1 Wage determination under perfect competition	K1 – K3		
	4.2 Wage determination with Trade unions –role of collective bargaining	K1 – K4		
	4.3 Wage differentials	K2 – K5		
	4.4 Economic rent, scarcity and differential rent	K1 – K5		
	4.6 Interest rate	K1 – K5		
	4.7 Profits – innovation, dynamic changes, uncertainty and risk theories	K1 – K5		
	4.8 Application: study of the Indian government's intervention in the betterment of Labour in India through wage legislations and policies	K1 – K5		
5	Information, Market failure and role of Government		12	1 -5
	5.1 General Equilibrium and economic efficiency	K3 – K4		
	5.2 Markets with Asymmetric information	K3 – K4		
	5.3 Market failure – Externalities	K3 – K5		
	5.4 Application: Analysis of the Indian Markets	K3 – K5		

BOOKS FOR STUDY

Pindyck, Robert. S. and Rubinfeld. L. Daniel. *Microeconomics*. 9thed. Boston: Pearson, New Delhi, 2018.

Nicholson, Walter & Christopher. Snyder. M. *Microeconomic Theory. Basic Principles and Extensions*. 11thed. Ohio: South Western, 2011.

Ahuja, H.L, *Advanced Economic Theory: Microeconomic Analysis*, S. Chand, New Delhi, 2017.

BOOKS FOR REFERENCE

Koutsoyiannis, A, *Modern Microeconomics*. Second edition, New Delhi, Macmillan Press, 2018
Maddala, G.S and E Miller, *Microeconomics*. New York, McGraw-Hill International edition, 1989.
Varian, Hal R. *Intermediate Microeconomics*. New Delhi, Affiliated East West Press, 2010.
Bernheim, B., Whinston, M. *Microeconomics*. India, Tata McGraw- Hill. 2009

JOURNALS

Journal of Applied Economics
Studies in Microeconomics

WEB RESOURCES

<http://www.stern.nyu.edu/networks/micnotes/micnotes.pdf>
<http://ocw.mit.edu/courses/economics/14-01-principles-of-microeconomics-fall-2007/lecture-notes/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/ME24												
II	Course Title: MICROECONOMICS - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	2	3	2	2	2	3	2	3	3	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	2	2	2	2	2	2	3	3	2
CO 4	2	3	2	3	2	1	2	2	3	2	3	3	2
CO 5	3	3	3	2	2	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A DEGREE: BRANCH IV – ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

REGIONAL ECONOMICS – TAMIL NADU

CODE: 23EC/MC/RT24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize the students with the concept of urbanization and regional economic development in India with a special emphasis on Tamil Nadu
- To understand local economic and social problems
- To acclimatize the theories of regional and interregional economic growth concept
- To examine how urban and regional development focus initially on economic forces to generate cities and economic ties within a region.
- To equip students with skills required to analyze the regional economic issues with respect to India and special emphasis on Tamil Nadu.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the difference between urban and regional economies	K1
CO2	compare and contrast the economic characteristics of different regions	K2
CO3	identify main factors affecting regional development	K3
CO4	analyze the causes and consequences of regional imbalances	K4
CO5	evaluate alternative regional economic development policies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Urban and Regional Economics 1.1 Concept, meaning and significance of Regional Development Nature and scope of urban and regional economics – spatial urbanisation	K1 – K3	11	1–5
	1.2 Need for a separate study on regional economics	K1 – K3		
	1.3 Concept and types of Regions - Administrative, Planning, Agro – climatic, Economic and Functional regions	K1 – K3		

UNIT	CONTENT	CL	HRS	CO
2	Economics of Urbanization 2.1 Process of Urbanization – Nature and factors initiating and perpetuating urbanization – Characteristics of an economy passing through different stages of urbanization – Urban sprawling	K1-K3	14	1-5
	2.2 Classification of urban areas by demographic, geographical and economic criteria – Process of sub-urbanization – Theory of agglomeration	K1 – K3		
	2.3 Urban Bias in Development – Urban Explosion – Remedial Measures– Urban population in Tamil Nadu – Pull and push factors of migration	K1 – K5		
3	Regional and Economic Development 3.1 Regional economic development - fundamental issues of regional economics	K1-K3	14	1-5
	3.2 Definition and measure of State Income (GSDP) – Rural and urban - GDP Difference in estimation of national income (GDP) and State Income (GSDP)	K1 – K5		
	3.3 Inter- state economic disparities - Tamil Nadu in comparison with other states	K1 – K5		
4	Infrastructural and Regional Development 4.1 Importance of social infrastructure- as a determinant of regional economic growth and development	K1- K5	13	1-5
	4.2 Inter-state disparity in Health, Housing, energy, transport and telecommunication infrastructure	K1- K5		
	4.3 Indices - Export preparedness index, multidimensional poverty index, state energy index, state health index	K1 – K5		
	4.4 Case study of Tamil Nadu	K1 – K5		
5	Regional imbalances 5.1 Causes and consequences of regional imbalances	K1 – K5	13	1 -5
	5.2 Rural- Urban inequality	K1 – K5		
	5.3 Inter-state and fiscal devaluation India – Trends in regional disparities in income and consumption	K1-K6		
	5.4 Regional imbalances in Tamil Nadu	K1 – K6		

BOOKS FOR STUDY

V. Henderson J.F. Thisse. (2004). Handbook on Regional and Urban Economics, Volume 4: Cities and Geography. North-Holland (Amsterdam).

O' Sullivan (2012), Urban Economics, McGraw Hill Higher Education (Boston).

Shukla, V. (1996) Urbanization and Economic Growth, Himalaya Publishers Pvt. Ltd (New Delhi).

Michael P. Todaro and Stephen C. Smith. (2015). Economic Development. Pearson (New Delhi). Chapter 7: Urbanisation and Rural-Urban Migration.

Edgar M. Hoover and Frank Giarratani. (2016). An Introduction to Regional Economics. Web-book of Regional Science, Regional Research Institute, West Virginia University. Freely downloadable at: <http://www.rri.wvu.edu/WebBook/Giarratani/contents.htm>

Phillips McCann. (2013). Modern Urban and Regional Economics. Oxford University Press (New York).

BOOKS FOR REFERENCE

B. B. Bhattacharya and S. Sakthivel (2004): Regional Growth and Disparity in India: Comparison of Pre- and Post-Reform Decades, Economic and Political Weekly, 39(10), pp. 1071-1077.

Hudson, R. (2007): Regions and Regional Uneven Development Forever? Some reflective Comments upon Theory and Practice, Regional Studies, 41(9), pp. 1149-1160.

Keshab Das (2004): Uneven Development and Regionalism: A Critique of Received Theories, Economic and Political Weekly, 39(45), pp. 4917-4925.

Brian A and Ravinder Singh, (edited) (1995) Housing the Urban Poor, Policy and Practice in Developing Countries, Sage Publications (New Delhi).

Bidyut Mohanty (1993) Urbanization in Developing Countries Basic Services and Community Participation, Institute of Social Science, Concept Publishing House News paper articles and published economic papers.

WEB RESOURCES

<https://researchrepository.wvu.edu/cgi/viewcontent.cgi?article=1003&context=rri-web-book>

JOURNALS

Journal of Regional Economics

Regional Studies

REPORTS

NITI Aayog Reports

GOI, Census 2011

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/RT24												
II	Course Title: REGIONAL ECONOMICS – TAMIL NADU												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	2	2	2	2	2	2	1
CO 2	3	3	3	2	3	3	2	2	3	2	2	2	1
CO 3	3	3	3	2	3	3	2	2	2	2	2	2	1
CO 4	3	3	3	2	3	3	2	2	2	2	2	2	1
CO 5	3	3	3	2	3	3	2	2	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICAL METHODS FOR ECONOMICS

CODE: 23EC/AC/MM25

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To impart various Linear algebraic methods in the field of graphical solutions.
- To familiarize the use of mathematical techniques in the branch of Economics
- To train the students in basic mathematical tools of Calculus
- To provide an overview of optimization techniques and apply this knowledge to problems relating to economic theory
- To acquaint the students with an in-depth mathematical tool for calculating and interpreting descriptive and other quantitative economics.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the concepts of linear algebra and apply basic set of equations in economics	K1
CO2	demonstrate the use of solving of system of simultaneous equations using matrix in economics	K2
CO3	apply matrix and calculus in calculating the interrelationship between various economic variables	K3
CO4	analyse the marginal productivity and cost theory using calculus	K4
CO5	evaluate using in-depth mathematical methods to infer the nature various tools in economics	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Analytical Geometry 1.1 Definition of the Cartesian system of coordinates, distance formula, coordinates of the point dividing the line joining two points in a given ratio, coordinates of the mid-point.	K1-K3	15	1-5
	1.2 Equations of straight lines in slope intercept form, slope and a given point form, X and Y intercept form, two-point form.	K1-K4		
	1.3 Angle between straight lines and conditions for parallelism and perpendicularism point of intersection of two straight lines	K1-K4		
	1.4 Economic applications to lines and angles- demand and supply equations, Application to Linear equations in Basic Macro Economic model- National Income – IS-LM model	K1-K5		
2	Matrix and Determinants 2.1 Various types of matrices. Matrix operations- addition, subtraction, and multiplication	K1-K3	10	1-5
	2.2 Determinants, properties of determinants, solving equations using Cramer's Rule.	K1-K3		
	2.3 Matrix inversion and solving equations using inverse of a matrix	K1-K3		
	2.4 Structure of input-output table, Static Leontief system	K1-K4		
	2.5 Solving open input output models and Hawkin-Simon Condition	K1-K5		
3	Differential Calculus 3.1 Variables, constants, and functions	K1-K2	15	1-5
	3.2 Concept of limits, Continuous and Discontinuous functions (Basic concepts -no derivation)	K1-K2		
	3.3 Definition of derivatives and rules of differentiation. Derivatives of $y=x^n$, $y=e^x$, $y=\log x$ (No derivation)	K1-K3		
	3.4 Function of a function rule, logarithmic, parametric, and implicit differentiation	K1-K4		
	3.5 Derivatives of three variable model	K1-K4		
	3.6 Partial and Total derivative – Young's Theorem	K1-K4		

UNIT	CONTENT	CL	HRS	CO
	3.7 Application to cross partial elasticity – Nature of good – Elasticity	K1-K4		
4	Calculus – Economics Application	K1-K5	15	1 -5
	4.1 Application to elasticity of demand and supply			
	4.2 Relationship between total, marginal and average revenue functions- Derivation and sums	K1-K5		
	4.3 Relationship between AC and MC- Derivation and sums	K1-K5		
	4.4 Application to AC, MC, MR, MP with two inputs factors.	K1-K5		
5	Maxima and Minima	K1-K5	10	1-5
	5.1 Increasing and Decreasing functions, interpretation of slope as the first derivative			
	5.2 Concave – Convex functions – interpretation of second order derivative – Nature of the curve	K1-K5		
	5.3 Unconstrained maxima and minima with single explanatory variable	K1-K5		
	5.4 Application to cost minimization, revenue maximization	K1-K5		
	5.5 Profit Maximization – Perfect Competition only	K1-K5		

BOOKS FOR STUDY

Chiang, A.C. and Kevin Wain Weight, *Fundamentals Methods of Mathematical Economics*. Indian edition: McGraw Hill International, New Delhi, 2017

Mehta, B.C. and Madnani, G.M. *Mathematics for Economists*. New Delhi: Sultan Chand, 2000

Allen, R.G.D. *Mathematical Economics*, Madras: English Language Book Society and Macmillan Press, Basal, 1973.

Anjali. *Mathematical Methods for Economics*. New Delhi: Nath Enterprises, Monga, 1995.

BOOKS FOR REFERENCE

G.S. *Mathematics for Management and Economics*, Vikas Publishing House Pvt.Ltd., New Delhi, 1996

Narayanan, S. and Manicavachagam. Pillay T.K. *Calculus*. Madras: Viswanthan Printers and Publishers, 1995.

Natarajan and Manicavachagam Pillay. *A Text Book of Analytical Geometry*, Madras: S. Viswanthan Printed and Publishers, 1981.

Sancheti, D.C. and V.K. Kapur, *Business Mathematics*, New Delhi: Sultan Chand, 1981.

Sydsaetar, Knut and Peter. Hammond. *Mathematics for Economic Analysis*. Singapore: Pearson Education, 2005.

Terasa Bradley and Paul Patton, *Essential Mathematics for Economics and Business*, Revised by Teresa Bradley, Wiley student Edition

Hoel PG : *Introduction to mathematical Statistics*, John Wiley & Sons, Edition 4, 1971 4.

Tulsian, P.C and Vishal Pandey: *Quantitative Techniques*, Pearson Education, New Delhi 6.

Gupta, S.P.: *Statistical Methods*, Sultan Chand and Sons, New Delhi.

Hooda R.P. *Statistics for Business and Economics*, Mac Millan, New Delhi

Dowling, Edward T: *Introduction to Mathematical Economics*, Third Edition,

Schaum's outlines, Tata Mc Grawhill Publishing Co. Ltd, New Delhi.

Sreenath Baruah: *Basic Mathematics and its Applications in Economics*, Mc Millan India Ltd.

Joseph K.X, *Quantitative Techniques*, CUCCS Ltd, Calicut University

JOURNALS

Journal of Mathematical Economics and Finances

Journal of Mathematical Economics

WEB RESOURCES

<http://www.econ2.uni-bonn.de/mitarbeiter/downloads/mathnotes.pdf>

<https://academicearth.org/economics>

<https://www.pearsonmylabandmastering.com/northamerica/mymathlab>

<https://ocw.mit.edu>

<https://oyc.yale.edu>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/AC/MM25												
II	Course Title: MATHEMATICAL METHODS FOR ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	3	3	2	1	3	3	2
CO 2	2	3	2	1	2	3	3	3	2	1	2	2	2
CO 3	2	1	2	1	2	3	2	2	2	1	2	2	2
CO 4	3	3	3	1	2	2	2	3	3	1	3	3	3
CO 5	3	3	3	1	2	2	3	3	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Allied Core offered by the Department of Economics
for the B. Com (CO) Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

ECONOMIC ENVIRONMENT OF BUSINESS

CODE: 23EC/AC/EB25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the basic concepts of Economics
- To enable the application of the concepts taught to the business world
- To examine the current business scenario in the context of India
- To give an overview of the macroeconomic policies which impact businesses
- To equip with micro level decision making within the firm

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the key concepts introduced	K1
CO2	comprehend the operation of the concepts	K2
CO3	apply the theoretical knowledge to varied real-life business situations	K3
CO4	analyse the impact of business decisions in the Indian context	K4
CO5	evaluate the effectiveness of the decisions implemented	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Economic Systems	K1-K2	9	1-5
	1.1 A brief overview of the concept of economic systems – Capitalism, Socialism, Mixed			
	1.2 The trend in economic ideologies over the years: free market laissez faire – capitalism to planned development – role of the government – to liberalisation and globalisation	K1-K3		
	1.3 India as a mixed economy – problems of development	K1-K5		
2	Market Structures	K1-K3	15	1-5
	2.1 Concepts of Cost and Revenue – Total Cost, Average Cost, Marginal Cost, Total Revenue, Average Revenue and Marginal Revenue			
	2.2 Breakeven analysis – concept and uses	K1-K5		
	2.2 Perfect competition and Monopoly – Features, Equilibrium and Price determination, Price discrimination	K1-K5		
	2.3 Monopolistic Competition – Features, importance of selling and advertising costs	K1-K5		

UNIT	CONTENT	CL	Hrs	CO
	2.4 Oligopoly – Features, Concept of ‘Kinky Demand’ Curve, Price leadership and Cartels	K1-K5		
3	Political Economy and Role of the Government	K1-K5	13	1-5
	3.1 Market Failure and Need for Government – Public versus private goods – Externalities and Asymmetric information – failure arising out of government intervention			
	3.2 Budgetary concepts – Budget – revenue and capital budget - balanced, surplus, deficit; revenue deficit, capital deficit, primary deficit, fiscal deficit	K1-K2		
	3.3 Fiscal Policy – Fiscal budgetary developments – Preparation, Enactment, Execution and Parliamentary control over finance	K1-K2		
	3.3 An analysis of the recent Union Budget of India	K1-K4		
4	International Trends and Issues	K1-K4	13	1-5
	4.1 Free trade versus protection – tariffs and non-tariff barriers			
	4.2 Globalisation and the Indian economy	K1-K5		
	4.3 A brief overview of GATT and WTO – TRIPS, TRIMS, AOA, Sanitary and Phytosanitary measures	K1-K2		
5	Business Cycles and Policies	K1-K4	15	1-5
	5.1 Business cycles – types, phases, causes and effects			
	5.2 Inflation – causes and effects	K1-K5		
	5.2 Methods to control inflation – Monetary policy – objectives and Instruments	K1-K4		
	5.3 Application – choose a country and study the major issue which impacts the economic growth	K1-K2		

BOOKS FOR STUDY

Sloman, John and Jones, Elizabeth. *Essential Economics for Business*. 5th Edition. Pearson Education Ltd., New Delhi, 2018

Boadway. R, Shah. A, *Fiscal Federalism, Principles and Practice of Multi-order Governance*, Cambridge University Press. UK, 2009

Carbaugh. R.J. *International Economics*. UK: Cengage Learning, 2008.

Andrew B. Abel, Ben S. Bernanke. *Macroeconomics* 9th edition. Pearson Education, New Delhi, 2016

Tyagi. B.P., *Public Finance*, 5th edition, Jai Prakash Nath and Co., Meerut, 2013

BOOKS FOR REFERENCE

Browning. E.K. *Public Finance and the Price System*. New Delhi: Pearson, 1994.

Cherunilam, Francis. *International Economics*, New Delhi: Tata McGraw Hill, 2012

Das Gupta S. & Ray Kiely (eds.). *Globalization and After*. New Delhi: Sage, 2006.

Steger. M. B., *Globalization: The New Market Ideology*. New Delhi: Rawat Publications, 2004.

WEB RESOURCES

<http://www.in.undp.org/>

www.imf.org

www.worldbank.org

www.wto.org

www.unctad.org
 www.un.org
 www.rbi.org.in
 http://mhrd.gov.in/

JOURNALS

Economic and Political Weekly
 International Journal of Sustainable Development & World Ecology
 Journal of Social and Development Studies
 The Economist
 International Journal of Human Resource Development and Management

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/AC/EB25												
II	Course Title: ECONOMIC ENVIRONMENT OF BUSINESS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	3	2	2	2	2	2	1	2	2
CO 2	3	3	2	1	3	2	2	2	2	2	1	2	2
CO 3	3	3	3	1	3	2	2	2	3	3	1	2	2
CO 4	3	3	3	1	3	2	3	3	3	3	1	2	2
CO 5	3	3	3	1	3	2	3	3	3	3	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB RESOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment:**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

ENVIRONMENTAL ECONOMICS

CODE: 23EC/MC/EE33

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To demonstrate a deep understanding of the fundamental economic concepts and theories and apply them to environmental issues
- To assess and quantify the economic value of environmental resources.
- To develop skills to evaluate environmental policies and regulations and make informed recommendations for policy improvements
- To explore strategies for sustainable resource management and apply optimization methods to address issues like overexploitation and depletion
- To apply environmental economics to finding solutions to serious national and international environmental problems

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	demonstrate an understanding of the basic concepts and theories in environmental economics	K1
CO2	identify, analyse and evaluate the basic environmental economic valuation practices	K2
CO3	illustrate a detailed understanding of the value of environment	K3
CO4	explain the problems faced by environmental damage	K4
CO5	critically analyze environmental issues at the national and international levels	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Fundamental of Environmental Economics	K1 – K2	10	1-5
	1.1 Definition, Scope, and Significance			
	1.2 Environment – Economy Linkage – Material Balance Approach	K1 – K4		
	1.3 Environmental Kuznets Curve	K1 – K4		
2	1.4 Sustainable Development - Weak and Strong Sustainability Criteria	K1 - K5	11	1-5
	Market Failure			
	2.1 Characteristics of Public good	K1-K5		
	2.2 Externalities	K1 – K3		
	2.3 Pigouvian fee and Coase Theorem on Property Rights	K1 – K5		

UNIT	CONTENT	CL	HRS	CO
3	Valuing Environment	K1- K3	11	1-5
	3.1 Concept of environmental value - Total Economic Value			
	3.2 Direct Method of valuation - Stated Preference Method: Contingent Valuation Method	K1- K5		
	3.3 Revealed Preference – Hedonic Pricing and Travel Cost Model	K1-K4		
4	Economics of Pollution Control	K1-K4	10	1 -5
	4.1 Optimal Level of Pollution	K1 – K3		
	4.2 Regulation of Pollution through Economic instruments	K1 – K5		
5	International Environmental Problems	K1 -K3	10	1 =5
	5.1 Trans-Boundary Environmental Problems – Cases of ozone depletion, Acid Rains			
	5.2 Economics of Climate change	K1 -K3		
	2.4 Tragedy of Commons	K1-K5		

BOOKS FOR STUDY

Kolestad, Charles D. *Environmental Economics*, New York: Oxford University Press, 2000.
 Barry C. Field. *Environmental Economics: An Introduction*, Singapore, McGraw-Hill, 1994
 Nick Hanley, Jason Shogren and Ben White, *Introduction to Environmental Economics*, second edition, Oxford University Press, Oxford, 2013

BOOKS FOR REFERENCE

Hussen, Ahmed.M. *Principles of Environmental Economics: Economics, Ecology and Public Sector*. London: Routledge, 1999.

Singh, Katar. And Shishodia. Anil. *Environmental Economics: An Indian Perspectives*. New Delhi: Oxford University Press, 2007.

Hodge Ian, *Environmental Economics: Individual Incentives and Public Choices*, MacMillan Press. New Delhi, 1995.

Yuema James, McGilbray, Michael Common Perman, Roger, *Natural Resource and Environmental Economics*, Pearson Education, New Delhi: 2003.

WEB RESOURCES

<https://ocw.mit.edu/courses/14-42-environmental-policy-and-economics-spring-2011/pages/lecture-notes/>

https://fcom.stafpu.bu.edu.eg/Economy/3898/crs-15010/Files/environmental_and_natural_resource_economics_by_tom_tietenberg_9th_edition.pdf

JOURNALS

Economic Survey – Various issues since 2000

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/EE33												
III	Course Title: ENVIRONMENTAL ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	2	3	3	3	2	2	2	3
CO 2	3	3	3	1	2	2	3	3	3	2	2	2	3
CO 3	3	3	3	1	2	2	3	3	3	2	2	2	3
CO 4	3	3	3	1	2	2	3	3	3	2	2	2	3
CO 5	3	3	3	1	2	2	3	3	3	2	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV – ECONOMICS

SYLLABUS

(Effective from the academic year 2023 -2024)

BEHAVIOURAL ECONOMICS

CODE: 23EC/MC/BE34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students with an introduction to the principles and methods of Behavioural Economics
- To identify and evaluate evidences for systematic departures of economic behavior from the predictions of the standard economic models
- To enable students to examine evidences that shows some departure from assumptions made in the mainstream economic model
- To enable students to analyze how people make economic decisions under various constraints and influence.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the limitations of the economic approach to modelling behaviour	K1
CO2	reflect empirically established behaviour of economic subjects against the backdrop of mainstream economic theoretical approaches	K2
CO3	apply existing behavioural models to better understand economic phenomena.	K3
CO4	examine the contribution of behavioural economics for a better appreciation of consumer behaviour, individual decision making under uncertainty and inter temporal choices.	K4
CO5	ability to evaluate the effectiveness of behavioural interventions in addressing economic issues and improving decision making	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K4	18	1 - 5
	1.1 Neoclassical Concept and Criteria for Economic Rationality			
	1.2 Causes of irrationality	K1-K4		
	1.3 Bounded Rationality – Herbert Simon	K1-K5		
	1.4 Broadening Rationality – Happiness is a three-act tragedy, Endowment Effect, Framing Effect & Decoy Effect – Types of Utility	K1-K3		
	1.5 History and Evolution of Behavioural Economics	K1-K5		
2	Heuristics & Biases	K1-K4	11	1-5
	2.1 Advantages and Disadvantages of Heuristics			
	2.2 The Availability heuristic	K1-K5		
	2.3 The Anchoring heuristic	K1-K5		
	2.4 The Representative heuristic	K1-K5		
	2.5 Self Evaluation Biases and Projection Bias	K1-K4		
3	Animal Spirits and its impact on Economic Decisions	K1-K2	15	1-5
	3.1 Confidence – its feedback mechanism that amplifies disturbances			
	3.2 Fairness – Its influence in setting wages and prices	K1-K4		
	3.3 Corruption and Antisocial behaviour	K1-K6		
	3.4 Money Illusion – Improper interpretation of inflation and deflation	K1-K5		
4	Prospect Theory and Mental Accounting	K1- K2	17	1-5
	4.1 Conventional approaches to modifying Expected Utility theory			
	4.2 Prospect theory and Shape of the utility function	K1-K5		
	4.3 Decision weighting	K1-K3		
	4.4 Nature and components of mental accounting	K1-K5		
	4.5 Framing and Editing, Budgeting and Fungibility	K1-K5		
5	Intertemporal Choice Models and Nudge	K1-K4	10	1 -5
	5.1 Features and anomaly of the Discounted Utility Model			
	5.2 Time Inconsistent Preferences and Limited Self-Control	K1-K4		
	5.3 Exponential Discounting Versus Hyperbolic discounting and the Beta Delta model.	K1-K2		
	5.4 Behavioural Economics and Libertarian Paternalism	K1- K5		

BOOKS FOR STUDY

Nick Wilkinson and Matthias Klaes . An Introduction to Behavioural Economics 2nd Edition, Palgrave Macmillan, London, 2012

Animal Spirits – How Human Psychology drives the economy and why it matters for Global Capitalism, George A. Akerlof and Robert J Shiller, Princeton University Press, 2009

David R. Just, Introduction to Behavioural Economics, Wiley Publication, New Jersey, 2014

Colin F.Camerer, George Loewenstein and Matthew Rabin, Advances in Behavioural Economics, Princeton University Press, New Jersey, 2003

BOOKS FOR REFERENCE

Frank Robert H, Microeconomics and Behaviour, McGraw Hill Education, New York, 2015

Thaler, Richard H, The Making of Behavioural Economics - Misbehaving, WW Norton & Co, Penguin, London, 2016

Kahneman Daniel and Tversky.Choices, Values and Frames eds., Cambridge University press and Russell Sage Foundation, England, 2000

Erik Angner, A Course in Behavioral Economics, Palgrave MacMillan, New York 2012

ARTICLES

Loewenstein (1987) “Anticipation and the Valuation of Delayed Consumption”. Economic Journal, 97 (387):666-684

Kahneman and Tversky(1979) “Prospect theory: An Analysis of Decision Under Risk”, Econometrica, 47 (2): 263-291

Thaler, Richard. 1999. "Mental Accounting Matters." Journal of Behavioral Decision Making12: 183-206

WEB RESOURCE

<https://www.behavioraleconomics.com>

JOURNALS

The Journal of Behavioral and Experimental Economics Journal of Behavioral Economics for Policy Journal of Behavioral Economics

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
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Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
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**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/BE34												
III	Course Title: BEHAVIOURAL ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
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CO 3	3	3	2	2	2	2	3	3	3	2	3	3	3
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	3	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23EC/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

- 3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant
- 3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

- 3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing
- 3.2.2 **Configuring Email**
Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails
- 3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

- Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.
- Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.
- Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.
- John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.
- Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.
- Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.
- Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.
- Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.
- Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-86.

**Allied Core offered by the Department of Psychology to
B.A. Economics Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF CONSUMER BEHAVIOUR

CODE: 23PY/AC/FC35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To introduce the concepts and models associated with consumer behavior
- To interpret key psychological processes underlying consumer behavior
- To acquaint students with the implications of sociocultural contexts on consumer's behaviors
- To discuss the impact of media and reference groups on consumer psychology
- To explain the factors underlying the consumer decision making process

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify the internal and external influences that drive individuals to consumerism	K1
CO2	describe the models and theories associated with consumer psychology	K2
CO3	apply their knowledge of psychological processes in consumer behavior	K3
CO4	distinguish the motives behind diverse consumer behaviors based on the underlying factors	K4
CO5	evaluate the effectiveness of strategies used to influence consumer psychology	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Consumer Behaviour 1.1 Definition and meaning of Consumer Behaviour 1.2 Nature and Importance of Consumer Behaviour 1.3 Overview of Consumer Behaviour Models – psychological model, general model of consumer behaviour, economic model.	K1- K5	12	1-5
2	Consumer Motivation 2.1 Meaning of Motivation, Types of Motives, Dynamic Nature of Motives-Needs and Goals of Consumers Consumer Personality 2.2 Meaning of Personality, Facets of Personality, Personality Traits and Consumer Behaviour	K1- K5	15	1-5
3	Consumer in the Social and Cultural Settings 3.1 Family and Consumer Related Roles 3.2 Social Standing and Consumer Behaviour	K1- K5	12	1-5

UNIT	CONTENT	CL	HRS	CO
	3.3 Culture's Influence on Consumer Behaviour 3.4 Cross cultural consumer behaviour- global marketing opportunities			
4	Consumer Communication Process 4.1 Definition of Communication 4.2 Communication Process-Traditional Media and New Media 4.3 Opinion Leadership- Characteristics, measuring opinion leadership 4.4 Reference Groups	K1- K5	14	1-5
5	Consumer Decision-Making Process 5.1 Stages of Decision Making 5.2 Types of Decision Making 5.3 Consumer Decision Making Model- EKB Model 5.4 Consumer Insights	K1- K5	12	1-5

BOOKS FOR STUDY

Schiffman, Leon G., Joe Wisenblit, and S. Ramesh Kumar. *Consumer Behavior*. 12th ed., Chennai, Pearson Education India, 2019.

Sharma, Rajwanti., Jai Pal Sharma. *Consumer Behaviour*. New Delhi, JBC Press. 2014.

BOOKS FOR REFERENCE

Sethna, Zubin, and Jim Blythe. *Consumer behaviour*. 4th ed., New Delhi, Sage. 2019.

Graves, Philip. *Consumer.ology: The Truth about Consumers and the Psychology of Shopping*. London. Nicholas Brealey Publishing. 2013.

Pasricha, Seema. *Consumer Psychology*. New Delhi. Deep & Deep. 2007

JOURNALS

Journal of Consumer Behaviour

<https://www.ingentaconnect.com/content/westburn/jcb>

WEB RESOURCES

Consumer-Brand Relationship

<https://bit.ly/46bui97>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/AC/FC35												
III	Course Title: Fundamentals of Consumer Behaviour												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	3	2	3	3	3	2	3	2
CO 2	3	3	3	3	2	3	3	3	3	2	3	3	3
CO 3	3	3	3	3	3	3	3	3	2	2	3	3	3
CO 4	3	3	3	3	2	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

PUBLIC FINANCE

CODE: 23EC/MC/PF44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the scope and subject matter of Public Finance
- To familiarize students with the role of government activity
- To equip with reasoning skills on the effects of public expenditure
- To give an overview of the trends in public revenue mobilization
- To appraise the Indian fiscal context

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the key concepts of Public Finance	K1
CO2	comprehend the working of the concepts taught	K2
CO3	apply to varied real-life situations the theoretical knowledge and acumen	K3
CO4	analyse the fiscal policies in the Indian context	K4
CO5	evaluate the effectiveness of the fiscal policies adopted	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction	K1-K2	12	1-3
	1.1 Definition – Private and Public Finance			
	1.2 Nature and scope of Public Finance – Classical Vs Keynesian	K1-K4		
	1.3 Public goods versus private goods – market failure – externalities - role of Government – Public sector in India	K1-K5		
2	Public Revenue	K1-K3	13	1-5
	2.1 Meaning and sources of public revenue – Union, State and Local Bodies			
	2.2 Taxation – canons, characteristics of good taxation, classification – Direct and Indirect taxes – types	K1-K5		
	2.3 Principles of taxation – Ability to Pay, Benefit Principle	K1-K5		
	2.4 Tax incidence and shifting	K1-K3		
3	Public Expenditure	K1-K2	13	1-5
	3.1 Classification and principles of Public Expenditure			

UNIT	CONTENT	CL	Hrs	CO
	3.2 Theories of Public Expenditure – Wagner, Wiseman and Peacock, Colin Clark	K1-K5		
	3.3 Lindahl's Voluntary Exchange Model, Bowen's model	K1-K4		
	3.4 Principle of Maximum Social Advantage	K1-K5		
	3.5 Effects of Public Expenditure	K1-K4		
4	Public Debt	K1-K4	13	1-5
	4.1 Classification and reasons for growth of public debt			
	4.2 Redemption of public debt – and its management	K1-K3		
	4.3 Effects of public debt on production and distribution	K1-K5		
	4.4 Public Debt in India – recent trends	K1-K5		
5	Budget Preparation in India and Fiscal Policy	K1-K4	14	1-5
	5.1 Public Budget – meaning, classification, agencies involved in the budgetary process			
	5.2 Preparation and implementation of the Budget in India	K1-K4		
	5.3 Fiscal policy – concept, objectives and tools	K1-K5		
	5.4 Deficit financing	K1-K3		

BOOKS FOR STUDY

Lekhi R. K. *Public Finance*. New Delhi, Kalyani Publishers, 2021
 Tyagi B. P. *Public Economics*. Meerut (U.P.), Jai Prakash Nath, 2015

BOOKS FOR REFERENCE

Bhargava R. N. *The Theory & Working of Union Finance in India*. Allahabad, Chaitanya Publishing House, 1967
 Bhatia H. L. *Public Finance*. New Delhi, S Chand, 2022
 Chelliah, Raja. *Fiscal Policy in Underdeveloped Countries: With Special Reference to India*, Routledge, UK, 2010
 Singh S. K. *Public Finance in Developed and Developing Countries*. New Delhi, S Chand, 1982
 Tripathy R. N. *Public Finance in Underdeveloped Countries*. World Press, Calcutta, 1968
 Musgrave and Musgrave. *Public Finance in Theory and Practice*. New York, Asian Student Edition, 2016

WEB RESOURCES

https://rajchetty.com/wp-content/uploads/2021/04/public_economics_lectures_lite.pdf
<https://gspp.berkeley.edu/assets/uploads/courses/notes/Lec0-Introduction.pdf>
<http://assets.press.princeton.edu/chapters/s10493.pdf>
<https://www.imf.org/en/Topics/fiscal-policies>

JOURNALS

Public Finance Review

International Tax and Public Finance

South Asian Journal of Macroeconomics and Public Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23EC/MC/PF44												
IV	Course Title: PUBLIC FINANCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	3	1	2	1	1	1	3	3	1
CO 2	3	3	2	1	3	2	3	2	2	2	3	3	2
CO 3	3	3	2	1	2	2	3	3	3	2	3	3	3
CO 4	3	3	2	1	2	2	3	2	3	2	3	3	3
CO 5	3	3	2	1	2	2	3	2	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV – ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

MONETARY ECONOMICS

CODE: 23EC/MC/MO44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide a comprehensive picture of the evolution of money and development of monetary theories
- To trace the evolution of the monetary theories from the classical to the Post-Keynesian schools.
- To apply the theories to a given monetary conditions.
- To enable students, understand the critical role of money in the development of an economy.
- To give an insight into the integration between Monetary Theory and Practice.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the basic concepts of money, its role, types and functions.	K1
CO2	trace the history of monetary standard from commodity standard to plastic currency standard.	K2
CO3	analyze the theories of demand and supply of money to the monetary economy	K3
CO4	critically analyse the monetary equilibrium in an economy	K4
CO5	create an ability to understand the monetary policy and its tools in the functioning of the monetary system.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1 – K4	12	1 – 5
	1.1 Evolution of Money- Definition, Classification and Functions-Role of Money			
	1.2 Monetary Standards: Metallic standard- Gold standard- types	K1 – K5		
	1.3 Paper standard: Definition, Features, Merits and Demerits.	K1 – K4		
	1.4 Note Issue System-Principles and Methods of Note Issue	K1 -K4		
2	Demand for Money	K1-K4	15	1-5
	2.1 Value of Money: Relationship between Value of Money and General Price level			
	2.2 Demand for Money: - Determinants of Demand for Money	K1 – K4		
	2.3 Classical Approach: Quantity Theory of Money- Transactions approach-Fisher Cambridge approach (Marshall, Pigou and Robertson)	K1 – K5		
	2.4 Keynesian Theory: Liquidity Preference Theory	K1-K5		
3	Post Keynesian Theories of Demand for Money	K1 – K5	13	1-5
	3.1 Baumol's Inventory Theoretic Approach			
	3.2 Tobin's Portfolio Balance Approach	K1 – K5		
	3.3 Friedman's Restatement of the Quantity Theory of Money	K1 – K5		
4	Supply of Money	K1- K4	13	1-5
	4.1 Money Supply: Definition, Determinants of Money Supply			
	4.2 Monetary Aggregates – Measurement of Money Stock in India: First, Second and Third Working Group of RBI	K1- K4		
	4.3 High-powered money and the money multiplier	K1-K5		
	4.4 Credit Creation	K1 – K5		
5	Monetary Policy	K1-K5	12	1 -5
	5.1 Monetary Policy – Objectives, Targets, instruments.			
	5.2 Monetary Policy – Transmission mechanisms – interest rate channel, Asset price channel, Credit channel, exchange rate and expectation channel	K1 – K5		
	5.3 Credit control – qualitative and quantitative	K1 – K5		
	5.4 Monetary Policy in India- An Overview	K1 – K5		

BOOKS FOR STUDY

Mishkin. S. Frederic. Economics of Money, Banking and Financial Market: New York ; Harper Collins College Publisher, 2007.

Paul R.R , Monetary Economics, New Delhi, Kalyani Publishers, 2018.

Sethi, T.T. Monetary Economics. New Delhi: Sultan Chand, 2003.

BOOKS FOR REFERENCE

Friedman, Milton. Studies in the Quantity Theory of Money. London: Ed, Chicago: The University of Chicago Press, 1956.

Ghosh, B.N. and Ghosh. Rama, Fundamentals of Monetary Economics. Mumbai: Himalaya Publishing House, 2007.

Hajela T.N. Money, Banking and International Trade. New Delhi: Konark Publishers, 2002

Jadhav, Narendra. Monetary Economics for India . New Delhi: Macmillan Education Limited, 2000.

Paul, R.R. Monetary Economics. New Delhi: Kalyani Publishers, 2005

Reddy, Y.V. Lectures on Economic and Financial Sector Reform in India. New Delhi: Oxford University Press, 2002.

Suraj, B. Gupta. Monetary Economics, Institutions, Theory and Policy. New Delhi: Sultan Chand, 2000.

Vaish, M.C. Monetary Theory, New Delhi: Ratan Prakashan Mandi, 2004.

JOURNALS

Journal of Banking and Finance

Journal of Financial Economics

Journal of International Money and Finance

International Journal of Monetary Economics and Finance

REPORTS

RBI Bulletins

Monetary Policy Report

WEB RESOURCES

www.rbi.org.in

www.mospi.nic.in

www.imf.org

www.worldbank.org

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4x 5 =20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x10 =20 (600 words each) 2 out of 4 questions

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/MO44												
IV	Course Title: MONETARY ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	1	3	2	3	3	3
CO 3	3	3	3	2	3	3	2	2	3	2	3	2	2
CO 4	3	3	3	2	3	3	2	2	3	3	3	2	2
CO 5	3	3	3	3	3	3	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTORY ECONOMETRICS

CODE: 23EC/AC/EM45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide with a rigorous introduction to univariate and multivariate regression and its uses in economics
- To provide an elementary but comprehensive introduction to the subject
- To introduce students to the basics of applied econometrics
- To enable students, understand the amalgamation of Mathematics, Statistics and Econometrics
- To equip with necessary estimation techniques for scientific decision-making process.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify and understand the concepts of econometrics	K1
CO2	infer theoretical background for the standard methods used in empirical analysis and integrate in theory building	K2
CO3	apply econometric methods like properties of least square estimators and statistical testing to real time economic problem	K3
CO4	examine problem-oriented research using the most appropriate and relevant econometric techniques.	K4
CO5	appraise statistical tools and interpret linear regression, nonlinear regression and simultaneous equation model.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Econometrics – Definition	K1-K2	5	1-5
	1.2 Classical Econometric Methodology – Analysis of an economic problem	K1-K3		

UNIT	CONTENT	CL	HRS	CO
2	Two Variable Linear Regression Model	K1-K3	22	1-5
	2.1 PRF and SRF			
	2.2 Methods of OLS, Assumptions	K1-K3		
	2.3 Derivation of OLS estimator and its properties	K1-K3		
	2.4 Standard Error	K1-K4		
	2.5 Gauss Markov Theorem- Derivation	K1-K5		
	2.6 Coefficient of determination	K1-K5		
	2.7 Hypothesis testing	K1-K5		
	2.8 Estimation of a two variable by model	K1-K5		
3	Three Variable Linear Regression Model	K1-K2	15	1-5
	3.1 Introduction to the model			
	3.2 Estimation of the model by OLS method	K1-K5		
	3.3 Hypothesis testing	K1-K5		
	3.4 Coefficient of determination	K1-K5		
	3.5 Functional form of regression models: Double Log, Semi Log, Reciprocal models	K1-K5		
4	Econometric with Qualitative/Quantitative Independent variables	K1-K4	15	1-5
	4.1 Introduction to dummy variables			
	4.2 Regression using Dummy Variables	K1-K5		
	4.3 Testing for structural stability of regression models	K1-K5		
	4.4 Interaction Effects	K1-K5		
	4.5 Seasonal Analysis	K1-K5		
5	Simultaneous Equation Models	K1-k3	8	1-5
	5.1 Introduction to simultaneous equation models			
	5.2 Simultaneous equation bias- Simple Keynesian model of income determination	K1-K4		

BOOKS FOR STUDY

Damodar N, Gujarati. *Basic Econometrics*, 5th edition. New Delhi: McGraw Hill International edition, 2011.

Ramu Ramanathan. *Introductory Econometrics with Applications*, 5th edition. Harcourt College Publishers.

BOOKS FOR REFERENCE

Jeffrey M. Woolridge. *Introductory Econometrics*, 6th edition, Cengage Learning Inc, 2016. James H. Stock and Mark W. Watson. *Introduction to Econometrics*, 3rd edition, Pearson India, 2017.

Christopher, Dougherty. *Introduction to Econometrics*, 4th edition, London: Oxford University Press, Indian edition 2011.

Damodar N, Gujarati. & Sangeetha. S. *Basic Econometrics*, 4th edition. New Delhi: McGraw Hill Publications, 2007.

Dominick, Salvatore. & Derrick. Reagle. *Statistics and Econometrics, Schaum's Outlines* 2nd edition. New York: McGraw Hill, 2011.

Koutsoyiannis, Theory of Econometrics, Palgrave

Nachane, Dilip M. "Econometrics: theoretical foundations and empirical perspectives" OUP Catalogue 2006.

Green, William H. "Econometric Analysis (7th)." 2007.

Johnston, John, and John DiNardo. "Econometric methods" New York 1972, McGraw Hill 1972: 22.

JOURNALS

The Econometrics Journal – Royal Economic Society
Journal of Quantitative Economics

WEB RESOURCES

<http://egei.vse.cz/english/wp-content/uploads/2012/08/Basic-Econometrics.pdf>

<http://www.ssc.wisc.edu/~bhansen/econometrics/Econometrics.pdf>

<http://www.mathworks.com>

www.statisticssolutions.com/multicollinearity

www.statisticshowto.datasciencecentral.com

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/AC/EM45												
IV	Course Title: INTRODUCTORY ECONOMETRICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	3	1	2	3	2	3	2	1	3	3	2
CO 2	3	3	3	1	2	3	2	3	3	1	3	3	2
CO 3	3	3	3	1	2	3	3	3	3	1	3	3	2
CO 4	3	3	3	1	3	3	3	3	3	2	3	3	3
CO 5	3	3	3	1	3	3	3	3	3	1	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

MACROECONOMICS - I

CODE: 23EC/MC/MA54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To develop a solid understanding of macroeconomic theories and concepts
- To provide a firm theoretical understanding of the functioning of the economy
- To introduce and exemplify the fundamental principles governing economic systems
- To employ macroeconomic principles in analyzing contemporary issues within the Indian economy
- To grasp the practical implications and contemporary relevance of macroeconomic principles

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire fundamental knowledge of the basic principles of macroeconomics	K1
CO2	identify the issues relating to measurement of macroeconomic variables	K2
CO3	evaluate the relevance of the existing theoretical models of income determination	K3
CO4	identify and demonstrate the tools required to solve the macro economic issues in an economy	K4
CO5	critically assess macroeconomic issues specifically pertaining to income determination, consumption, savings and investment	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Macroeconomics 1.1 Definition, nature, scope of macroeconomics, Distinction between micro and macroeconomics	K1, K2	12	1 - 5
	1.2 National Income - Concept, real and nominal income	K1- K4		
	1.3 Measuring the value of economic activity: Measuring GDP, Measuring Cost of Living –The Consumer Price Index and Measuring Unemployment Rate	K1- K5		
	1.4 Circular Flow of Income	K1- K4		
2	Classical Theory 2.1 Classical Theory of Output and Employment: Production Employment	K1 -K4	13	1 - 5
	2.2 Demand and Supply of Labour Equilibrium: Output and Employment	K1 -K5		
	2.3 Policy implication of Classical Equilibrium Model	K2-K5		
3	Keynesian Theory 3.1 Keynesian model of income and employment determination: aggregate demand and supply	K1- K4	12	1 - 5
	3.2 Concept of Effective Demand	K1- K4		
	3.3 Under employment equilibrium	K1- K5		
	3.4 Classical vs. Keynesian	K2- K5		
	3.5 Relevance of Keynesian Economics to India	K1- K5		
4	Consumption and Saving Function 4.1 Meaning, attributes, factors affecting consumption	K2- K4	16	1 - 5
	4.2 Theories of consumption - Absolute, Relative, Permanent, and Life cycle hypothesis.	K2-K5		
	4.3 Saving Function – its attributes	K2- K4		
5	Investment Function, Multiplier and Accelerator 5.1 Investment function- Nature of investment, factors affecting invest- MEC, MEI, and rate of interest	K1 -K5	12	1 - 5
	5.2 Multiplier – definition, types, operation	K1- K5		
	5.3 Acceleration Principle	K3-K5		
	5.4 Interaction between multiplier and accelerator	K3 – K5		

BOOKS FOR STUDY

Froyen, T. Richard. Macroeconomics Theories and Policies. New Delhi: Pearson Education, 2012.

Rana, Verma. Macroeconomic Analysis. 10th ed., Jalandhar: Vishal Publishing, 2013.

BOOKS FOR REFERENCE

Duilo, E. Macroeconomic Theory. Schaum Series. New York: McGraw Hill Company, 1974.

Errol D'Souza. Macroeconomics. New Delhi: Pearson Education, 2008.

Mankiw. N. Gregory, Macroeconomics .New York Worth Publishers, 2009

Heijdra, Ben.J. The Foundation of Modern Macroeconomics. Oxford University Press. 2009.

Jha, Raghabendra. Contemporary Macroeconomic Theory and Policy. Wiley Eastern, 2009.

WEB RESOURCES

<https://openstax.org/>

<https://www.aeaweb.org/econlit/>

<https://data.worldbank.org/source/world-development-indicators>

<https://www.imf.org/en/AboutFactSheets.Sheets/2022/IMF-World-Bank-New>

JOURNALS

The Quarterly Journal of Economics (QJE)

Journal of Economic Literature (JEL)

Journal of Macroeconomics

Journal of Economic Perspectives

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23EC/MC/MA54												
V	Course Title: MACROECONOMICS - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	2	2	2	3	3	3	2	2
CO 3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BA DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

PUBLIC POLICY

CODE: 23EC/MC/PP53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce the students to the field of public policy making
- To familiarize with key concepts, issues and processes
- To equip with judgment skills in evaluating policies
- To give an overview of institutions involved in the policy making process
- To aid in framing of policy memo

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the key concepts of public policy making	K1
CO2	comprehend the factors which influence policy making	K2
CO3	apply to varied real-life situations the theoretical knowledge and acumen	K3
CO4	analyse the Indian public policies	K4
CO5	evaluate the effectiveness of the policies adopted	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Nature of Public Policy	K1-K2	12	1-4
	1.1 Public Policy – definition, nature and scope			
	1.2 Origin of Public Policy – Policy orientation in Lasswell's context	K1-K3		
	1.3 Brief overview of the official and unofficial actors and their roles in public policy – legislature, Government and Bureaucracy, Judiciary, individual, interest group, political parties and media	K1-K3		
	1.4 Brief introduction to the types of policies – Distributive policies, Regulatory policies and Re-distributive policies	K1-K3		
2	Policy Decision Making	K1-K5	10	1-5
	2.1 Rational Choice Theory			

UNIT	CONTENT	CL	Hrs	CO
	2.2 Simon's Bounded Rationality and Public Policy processes, Principle of Intended Rationality, Principle of Adaptation, Principle of Uncertainty and Principle of Trade-offs	K1-K5		
3	Policy Design and Techniques	K1-K2	12	1-5
	3.1 Elements of Policy Design			
	3.2 Quantitative Techniques – Cost Benefit Analysis, Economic Forecasting, Operations Research and Systems Analysis	K1-K5		
	3.3 Qualitative Techniques – Nature of Qualitative Research, Interpretive Methods – Ethnography, Action Research, Case Study, Grounded Research, Strengths and Weakness of Qualitative Research	K1-K5		
	3.4 Impact Assessment – Environment, Social and Technological	K1-K4		
4	Implementation	K1-K3	8	1-5
	4.1 Approaches to implementation – Top Down, bottom up and synthesis – A third generation of implementation research			
	4.2 Policy failure and learning from it – Conceptual, Political and Administrative problems	K1-K5		
	4.3 Conditions for Successful Implementation	K1-K4		
5	Policy Evaluation and Memo-Writing	K1-K3	10	1-5
	5.1 Criteria for Policy Evaluation			
	5.2 Approaches to Policy Evaluation	K1-K4		
	5.3 Memo - Guidelines to memo-writing	K1-K5		
	5.4 Application: Students to evaluate any one current public policy and frame three short policy memos	K1-K5		

BOOKS FOR STUDY

Alan R. Sadovnik., *Qualitative Research and Public Policy*. in F. Fisher et al (ed) *Handbook of Public Policy Analysis Theory, Politics, and Methods*., CRC Press, Florida, 2007.

Birkland Thomas A., *An Introduction to the Policy Process: Theories, Concepts and Models of Public Policy Making*, 2nd Edition Armonk: M.E Sharpe, New York, 2005

Michael.E.Kraft and Scott.R Furlong., *Public Policy: politics, Analysis and Alternatives*, 6th edition, Sage Publications, California, 2018

Sapru R. K., *Public Policy – Art and Craft of Policy Analysis*, PHI Publications, New Delhi, 2015

BOOKS FOR REFERENCE

Anderson, J.E. *Public Policy – Making : An Introduction*. Boston: Houghton, 2006

Dreze, Jean. and Amartya. Sen. *India: Development and Participation*. New Delhi: Oxford University Press, 2002.

Dye, Thomas. *Understanding Public Policy*. Singapore: Pearson Education, 2008

Eugene, Bardach's. *A Practical Guide for Policy Analysis: the Eightfold Path to More Effective Problem Solving* (C Q press; any edition is acceptable), Washinton. 2019

Kingdon. *Agendas, Alternatives and Public Policies*, 2nd updated edition, Longman, London, 2011

Kraft and Furlong. *Public Policy: Politics, Analysis and Alternatives*, 4th edition, California, Sage Publications, 2013. ,

Stella Z. Theodoulou and Matthew. A. Cahn, eds. *Public Policy: The Essential Readings*. New York: Prentice Hall, 1995.

Goodin RE (ed) *The Oxford Handbook of Public Policy*, Oxford, OUP 2008.

Kaushik, Basu. *The New Oxford Companion to Economics*, London: Oxford University Press, 2012.

Reetika, Khera, "India's Public Distribution System: Utilisation and Impact", Journal of Development Studies, 47:7, 2011.

WEB RESOURCES

[http://www.untagsmd.ac.id/files/Perpustakaan_Digital_2/PUBLIC%20POLICY%20\(Public%20Administration%20and%20public%20policy%20125\)%20Handbook%20of%20Public%20Policy%20Analysis%20Th.pdf](http://www.untagsmd.ac.id/files/Perpustakaan_Digital_2/PUBLIC%20POLICY%20(Public%20Administration%20and%20public%20policy%20125)%20Handbook%20of%20Public%20Policy%20Analysis%20Th.pdf)

<https://www.worldscientific.com/series/wslnep>

https://niilmuniversity.in/coursepack/humanities/Public_Policy.pdf

JOURNALS

International Journal of Public Policy
Public Policy and Administration

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 =10 (250 words each) 2 out of 3 questions
C	K5	10	1 x10 =10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4x 5 =20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x10 =20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/PP53												
V	Course Title: PUBLIC POLICY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	3	2	3	3	2	2	3	3	2
CO 2	3	3	3	1	3	2	3	3	3	3	3	3	3
CO 3	3	3	3	1	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	1	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	1	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV – ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

DEVELOPMENT ECONOMICS

CODE: 23EC/MC/DE54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To gain an understanding of the evolution and growth of development models and how to apply to a wide range of real world issues.
- To provide conceptual tools to improve student's analytical ability.
- To apply the theoretical underpinnings of Development Economics
- To analyze the major economic problems of development in particular to Indian Economy.
- To critically and analytically examine the theoretical foundations of economic development and to evaluate the theories from contemporary perspective.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the dynamics of various developmental problems such as poverty, inequality, unemployment, migration, human development, sustainability et.	K1
CO2	apply development theories and concepts to formulate and analyse development policies.	K2
CO3	analyse the causality of various developmental issues and their interconnectedness.	K3
CO4	acquire concrete skills to carry out research and work directly in these areas with government agencies, ngos, policy making teams leading to their professional development	K4
CO5	critically articulate the theories of economic development.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Economics of Development - Introduction	K1 – K5	11	1-5
	1.1 Definition of Development – Difference between Growth and Development – Core values of Development – Denis Goulet , Sen			
	1.2 Evolution of Economic Development- Historical perspective	K1 – K5		
	1.1 Characteristics of Developing Economics- India	K1 - K5		
	1.4 Factors affecting Economic Development - Economic and Non-Economic	K1 - K5		
	1.5 Measures of Development – GDP, Per Capita Income, Welfare, Basic Need – Development as Freedom	K1 – K5		
2	Process of Development – Theoretical Perspective		14	1-5
	2.1 Theories of Transition - Rostow’s stages of economic growth.	K1-K5		
	2.2 Theories of Structural Change - Clark and Fisher, Kuznet .	K1-K5		
	2.2 Big Push Theory	K1-K5		
	2.4 Theory of Critical Minimum Effort			
3	Surplus Labour and Dualistic Development,	K1-K5	14	1-5
	3.1 Dualistic Economy- Meaning, characteristics, types			
	3.2 Inter-sectoral Relationship in a Dual Economy- Forward and backward linkages	K1 – K5		
	3.3 Utilisation of Surplus Manpower – Lewis theory, Fei and Ranis Theory	K1 – K5		
	3.4. Rural- Urban Migration – Todaro	K1 – K5		
	3.5 Policy Option	K1-K5		
4	Issues of Economic Development- Poverty, Inequality and Unemployment	K1- K5	13	1-5
	4.1 Poverty and Inequality- Meaning, Definition, Concepts			
	4.2 Nurkse’s Poverty Trap, Kuznets’ Inverted –U Hypothesis and Sen’s View	K1- K5		
	4.3. Measures of Poverty and Inequality – Head Count Ratio, Poverty Gap, Lorenz Curve, Human Poverty Index, Multidimensional Poverty Index	K1 – K5		
	4.4 Unemployment_ Disguised Unemployment- Nurkse Theory, A.K.Sens view	K1 – K5		
	4.5 Policy options – Areas of Intervention	K1 – K5		
5	Measures for Economic Development – Domestic and International.		13	1-5
	5.1 Capital Formation – Meaning, Importance Factors determining capital formation			
	5.2 Domestic Savings – Meaning, Sources and Mobilisation of savings.	K1 – K5		

	5.3 Foreign Trade and Economic Development – Effects of International trade, Aid or Trade	K1 – K5		
	5.4 Foreign Capital and Economic Development	K1 –K5		

BOOKS FOR STUDY

Michael. P.Todaro and S. C. Smith. Economic Development. New Delhi: Pearson,2013.

Mishra, S. K. and V. K. Puri. Economics of Development and Planning. New Delhi: Himalaya, 2004.

Perkins, D.H. & D.L. Lindauer. Economics of Development. New York: W.W.Norton, 2006.

Taneja, M. I. and R.M. Myer. Economics of Development and Planning. New Delhi: Visha, 2005

Debraj. Ray, Development Economics. New Delhi: OUP, 2010.

BOOKS FOR REFERENCE

Chakravarthy. S. Development Planning the Indian Experience. Calcutta: Clarendon Press, 1989.

Higgins. Benjamin. Economic Development: Principles and Policies. New York: W. W. Norton, 1993

Hollis, Chenerry & T.N. Srinivasan. (Ed.) Handbook of Development Economics Volume I & II, Amestradam: Elsevier, 1998.

Meier. G. Leading Issues in Economics Development, Bombay, Calcutta: OUP, 1995. Sen. A.K. Development of Freedom. New Delhi: Oxford University,1994.

Thirwall. A.P. Growth & Development. New York: Palgrave Macmillan,2003.

Yujiro. Hayami. Development Economics from the Poverty to the Wealth of Nations, New York: OUP, 1997.

JOURNALS

Indian Growth and Development Review

Journal of Human Growth and Development Quarterly

Journal of Economic Growth and Development Research

WEB RESOURCES

<http://www.in.undp.org/>

www.worldbank.org

www.wto.org

www.unctad.org

www.un.org

www.rbi.org.in

<http://mhrd.gov.in/>

REPORTS

Human Development Reports-UNDP publications 2000 onwards

Parikh. Kirit. India Development Report (Ed.), Indira Gandhi Institute of Research and Development, New Delhi: OUP, 2004.

World Development Reports - World Bank Publications 2000 onwards.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Exam:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23EC/MC/DE54												
V	Course Title : DEVELOPMENT ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	2	3	3	2	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV – ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

INTERNATIONAL ECONOMICS

CODE: 23EC/MC/IN54

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the theoretical underpinnings of International Trade
- To provide a thorough grounding in the evolution and growth of trade theories
- To enable students to comprehend the critical role played by foreign trade in economic development
- To interpret the working of international institutions in promoting trade
- To discuss different types of trade policies and barriers to trade

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and define key concepts and theories in international trade	K1
CO2	understand the principal theoretical models in international trade	K2
CO3	apply the theoretical models to a given economic scenario	K3
CO4	analyse the problems and challenges of international trade and international institutions in promoting world trade	K4
CO5	evaluate the relevance of exiting theoretical knowledge	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Basis of trade –Mercantilist argument: Zero Sum Game –a critique: Positive Sum Game- David Hume	K1 – K4	10	1-5
	1.2 Classical theories of International Trade: Adam Smith, David Ricardo, J.S Mill	K1 – K5		
	1.3 Terms of Trade-Offer Curves-Factors which affect Terms of Trade	K1 – K5		
2	The Endowment Theory 2.1 Heckscher-Ohlin Theory	K1-K5	16	1-5
	2.2 Factor Prices and Factor Reversal Test	K1 – K5		
	2.3 Samuelson -Stolper Theory	K1 – K4		
	2.4 Leontief Paradox Secular Deterioration in Terms of Trade- A critique of Heckscher-Ohlin Theory	K1-K5		

3	Economic Growth and Trade Policy	K1 – K5	12	1-5
	3.1 Johnson's Model			
	3.2 Bhagwati's Immiserising Growth	K1 – K5		
	3.3 Economic Integration: Meaning, Forms, Problems	K1-K3		
4	3.4 Regional Groupings: BRICS, ASEAN, G7, G 20, EU – Brexit and SCO**	K1-K4	15	1-5
	Balance of Payments and Foreign Exchange Markets	K1- K5		
	4.1 Concepts – equilibrium and disequilibrium. Factors that affect BOP – Adjustment mechanism – Devaluation- Depreciation			
	4.2 Foreign Exchange Market – Concept, Types and Instruments, Determination of the Foreign Exchange Rate: Demand and Supply Theory	K1- K5		
5	4.3 Classification of Exchange Rates and Exchange Control	K1 – K4	12	1-5
	4.4 Application –Country specific study of trade policy and the relevance of regional groupings	K1-K5		
	International Interdependence Institutions and Policy	K1-K5		
	5.1 IMF- Objective, Functions, India and the IMF			
	5.2 The World Bank-Objectives, Functions, India and World Bank	K1 – K5		
	5.3 UNCTAD and GATT-A Brief Overview	K1 – K4		
	5.4 WTO – Objectives, Functions and Impact on trade, India and the WTO	K1-K5		

**** (NOT TO BE TESTED FOR END SEMESTER EXAM)**

BOOKS FOR STUDY

Appleyard, D.R. and Field. A.J. International Economics, New York: Irwin McGraw Hill, 2016.

Cherunilam, Francis. International Economics. New Delhi: Tata- McGraw, 1988

BOOKS FOR REFERENCE

Bo Sodersten, International Economics. New Delhi: Macmillan Press, 2003

Dasgupta, B. Globalisation – India's Adjustments Experience, New Delhi: Sage, 2005

Krugman, P.R. International Economics. New Delhi: Pearson, 2017.

Robert, J. Carbaugh. International Economics, New Delhi: Akash Press, 2011

Salvatore, D. International Economics. Singapore: John Wiley & Sons, 2002.

JOURNAL

The Journal of International Trade & Economic Development

International Journal of Trade, Economics and Finance

WEB RESOURCES

<http://www.in.undp.org/>
www.imf.org
www.worldbank.org
www.wto.org
www.unctad.org
www.rbi.org.in
<http://mhrd.gov.in>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Exam:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/IN54												
V	Course Title: INTERNATIONAL ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	3	2	3	2	2	2	3
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CO 3	3	3	3	2	3	2	3	2	3	3	3	3	3
CO 4	3	3	3	2	2	2	3	2	2	2	3	2	2
CO 5	3	3	2	2	3	2	2	1	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Interdisciplinary Core Course Offered by the
Departments of Economics and Physics to B.A. Economics
and B.Sc. Physics Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

RENEWABLE ENERGY AND ENERGY ECONOMICS

CODE: 23ID/IC/RE55

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of Renewable energy resources.
- To create in students an awareness of current environmental issues and energy policies.
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude.
- To provide an awareness of the importance of energy-sensitive initiatives at the regional, national and international levels.
- To explore the role of various national and international organizations in energy development.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	gain sound knowledge in Energy development and the need for Energy transition in a Developing country like India.	K1
CO2	explain the technological advancements and innovations in renewable energy systems and their impact on energy generation.	K2
CO3	appraise key energy issues to build their ability to emerge as an entrepreneur in the field of Renewable energy	K3
CO4	analyze national and international policies and regulations governing the deployment of renewable energy.	K4
CO5	extend their critical thinking to bring out policies and solutions to key energy issues across the Globe.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Energy Resources 1.1 Energy routes for non-renewable energy resources – Age renewables and alternatives – Moving towards renewable energy sources - Energy conservation practices. 1.2 Types of energy sources - Renewable and non-renewable sources. 1.3 Energy consumption - Energy calculation. 1.4 Evolution of energy economics – Energy Development - Energy – economy linkage – Energy transition 1.5 Current energy issues - Energy intensity – growth of renewable resources.	K1 – K5	17	1-5
2	Solar Energy 2.1 Fundamentals of solar radiation – Nature of solar radiation – Radiation on earth’s surface – Sun path chart. 2.2 Photovoltaics – Principles – Physics and operation of solar cells – Solar panels- Solar power plants - On and Off-grid photovoltaics application - Photovoltaics: country perspective - Visible challenges - Production pattern of solar cells and modules in India 104.	K1 – K5	17	1-5
3	Wind energy 3.1 Introduction – Basic principles of wind energy conversion. 3.2 Nature of wind – Power in the wind -forces on the blades and wind energy conversion – Site selection. 3.3 Classification of wind energy conversion systems – Advantages and limitations.	K1 – K5	16	1-5
4	Micro Foundation 4.1 Demand - Energy demand - Primary and global - Factors affecting energy demand 4.2 Supply- Factors affecting Energy supply 4.3 Market equilibrium - Energy market structure - Non-renewable (Oil) vs renewable energy 4.4 Energy as a public good - Market failure - Externalities.	K1- K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	Energy and Environment 5.1 Mechanism to correct imperfection in energy market -Command and Control - Taxes and cap trade mechanism for internalization of environmental externalities. 5.2 Energy and climate change - Energy security - Organizations - UNFCCC (Paris Agreement) , Bureau of Energy Efficiency (India), UNDP. 5.3 Energy efficiency policies- Recent renewable energy policies in India.	K1- K5	13	1-5

BOOKS FOR STUDY

G.D Rai, *Solar Energy Utilization*, 5th edition, Khanna Publishers, 2010.

Thipse S.S., *Nonconventional and Renewable energy sources*, Narosa Publishing House, New Delhi, 2014.

Suneel Deambi, *From Sunlight to Electricity: A practical handbook on solar photovoltaic applications*, 3rd edition, Teri Press, 2018.

Schwarz, P., *Energy Economics*, Routledge, 2022.

Bhattacharyya and Subhes C., *Energy Economics: Concepts, Issues, Markets and Governance*, Springer, 2011.

Banks F.E, *Energy Economics; A Modern Introduction*, Kluwer Academic Publishers, Dordrecht 2000.

Griffin J.H. and H B Steel, *Energy Economics and Policy*, Academic Orlando, 1986

Samuelson Paul A and William D Nordhaus, *Economics*, 19th edition, McGraw Hill Education 2006.

BOOKS FOR REFERENCE

Ramesh R. Kumar and K.U Renewable Energy Technologies, Narosa Publishing House, New Delhi, 1997.

JOURNALS

Energy Economics

International Journal of Energy Economics and Policy

WEB RESOURCES

<https://dokumen.pub/energy-economics-1nbsped-0415676770-9780415676779.html>

<https://mnre.gov.in/public-information/policies-and-guidelines>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 1 = 5 (MCQ - Economics) 5 x 1 = 5 (MCQ - Physics) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 questions - all compulsory 2:3 or 3:2 Economics: Physics
B	K3	10	2 x 5 = 10 (250 words each) Part A (1 out of 2) 1x 5 = 5 marks Economics Part B (1 out of 2) 1x 5 = 5 marks Physics
	K4	10	2 x 5 =10 (250 words each) Part A (1 out of 2) 1x 5 = 5 marks Economics Part B (1 out of 2) 1x 5 = 5 marks Physics
C (Combined as one question Physics and Economics)	K5	10	1x10 = 10 (500 words each) 1 out of 2 questions to be answered each question will have part a and part b and the student must answer compulsory one out two questions and complete part a and part b a. Economics (5 marks) b. Physics (5 marks)

Other Components:

Total Marks: 50

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 1 = 10 MCQ - (5 from Physics and 5 from Economics) all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 questions – short answers - all compulsory 5:5 Economics: Physics
B	K3	20	4x 5 =20 (250 words each) 4 out of 6 questions Part A (2 out of 3) 2x 5 = 10 marks Economics Part B (2 out of 3) 2x 5 = 10 marks Physics
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions Part A (2 out of 3) 2x 5 = 10 marks Economics Part B (2 out of 3) 2x 5 = 10 marks Physics
C (Combined as one question Physics and Economics)	K5	20	2 x10 =20 (600 words each) 2 out of 4 questions 2 out of 4 questions to be answered each question will have part a and part b and the student must answer compulsory 2 out 4 questions and complete part a and part b a.Economics (10 marks) b. Physics (10 marks)

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/RE55												
V	RENEWABLE ENERGY AND ENERGY ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	2	3	2	2	1	1	1	2
CO 2	2	3	2	1	3	3	2	2	2	2	1	1	2
CO 3	2	2	3	1	3	3	3	3	2	2	1	1	2
CO 4	1	2	2	1	3	3	2	2	2	2	1	1	2
CO 5	3	3	3	1	2	2	3	3	2	2	1	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

MACROECONOMICS - II

CODE: 23EC/MC/MA64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide comprehensive understanding of how economies function at a macro level and the mechanisms that drive economic activities
- To apply macroeconomic concepts and principles to real- world economic issues and events, fostering a deeper understanding of current economic conditions
- To develop critical thinking skills and enable students to evaluate economic policies
- To explore the policy tools and strategies to achieve macroeconomic goals of stability, full employment and economic growth
- To provide an insight into the global aspects of macroeconomics including international trade, exchange rates and their impact on domestic economies

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	gain theoretical knowledge of fundamental macroeconomic theories and models	K1
CO2	overall understanding of major economic issues like economic growth, inflation, unemployment and business cyclesx	K2
CO3	apply macroeconomic principles to interpret current economic events and trends	K3
CO4	assess the effectiveness of policies in achieving macro economic goals	K4
CO5	utilise quantitative tools to analyse economic data and connect macroeconomic theory to real world policy debates and decisions	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Neo- Classical Keynesian Synthesis 1.1 Hicks-Hansen IS-LM functions	K1- K5	15	1 -5
	1.2 General Equilibrium	K1- K4		
	1.3 Effectiveness of Monetary and Fiscal policy	K1- K5		
	1.4 IS-LM in open economy	K1- K5		
2	Economic Growth 2.1. Economic growth and development :factors affecting economic growth- capital, labour and technology.	K1- K4	14	1 - 5
	2.2 Growth Models : Harrod – Domar, instability equilibrium	K1- K5		
	2.3 Neo-classical growth model – Solow	K1- K5		
	2.4 Policies to promote growth	K1- K5		
3	Business Cycles 3.1 Definitions, characteristics, Types of business cycle and Phases of business cycle	K1- K4	14	1 - 5
	3.2 Theories of Business cycle: Hobson, Hawtrey, Keynes, Samuelson, Hicks	K1- K4		
	3.3 Real Business Cycle	K1- K4		
	3.4 Measures of Stabilization	K1- K5		
4	Inflation 4.1 Definition, Types, Causes and Effects.	K1- K4	10	1 -5
	4.2 Excess DD –Inflationary gap Cost push – Wage Push , Profit Push	K1- K5		
	4.3 Control of Inflation- Monetary, Fiscal and General Measures	K1- K5		
	4.4 Stagflation	K1- K5		
	4.5 Phillips Curve- Augmented Phillips Curve	K1- K5		
	4.6 Inflation in India: Recent Experience	K1- K5		
5	Macroeconomic Policy 5.1 Objectives, Techniques, Instruments	K1- K4	12	1 - 5
	5.2 Achievements of internal and external balance	K1- K5		
	5.3 Application- Macro Economic objectives of Indian economy	K1- K5		

BOOKS FOR STUDY

Froyen, T. Richard. Macroeconomics Theories and Policies. New Delhi: Pearson Education, 2002.
Mankiw. N. Gregory, Macroeconomics .New York Worth Publishers, 2009
Rana, Verma. Macroeconomic Analysis. 10th ed., Jalandhar: Vishal Publishing, 2013.

BOOKS FOR REFERENCE

Duilo, E. Macroeconomic Theory. Schaum Series. New York: McGraw Hill Company, 1974. Errol D'Souza. Macroeconomics. New Delhi: Pearson Education, 2008.
Heijdra, Ben.J. The Foundation of Modern Macroeconomics. Oxford University Press. 2009.
Jha, Raghabendra. Contemporary Macroeconomic Theory and Policy. Wiley Eastern, 2009.

WEB RESOURCES

<https://openstax.org/>

<https://www.aeaweb.org/econlit/>

<https://data.worldbank.org/source/world-development-indicators>

<https://www.imf.org/en/AboutFactSheets.Sheets/2022/IMF-World-Bank-New>

JOURNALS

The Quarterly Journal of Economics (QJE)

Journal of Economic Literature (JEL)

Journal of Macroeconomics

Journal of Economic Perspectives

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/MA64												
VI	Course Title: MACROECONOMICS - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	3	3	3	2	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

DATA ANALYTICS AND ECONOMIC ANALYSIS PRACTICAL

CODE: 23EC/MC/DA65

CREDITS:5

L T P:0 0 6

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To introduce some of the statistical and econometric techniques that are widely used in empirical studies in economics
- To teach students how to apply relevant econometric methods using economic data
- To enable students extract data from data sources
- To understand the economic implications and relevance of these tools required to formulate simple econometric models
- To emphasis on skill-based learning and focus on how to use Excel software to conduct statistical analysis of data

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	provide skills to describe, define and explore data and its types	K1
CO2	demonstrate relevant econometric methods to analyze data and interpret the results from such analysis	K2
CO3	apply and use economic data to formulate simple econometric models	K3
CO4	analyse data using computer proficiency	K4
CO5	estimate economic model using relevant data	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Importance of data 1.1 Types of Data	K1	10	1-5
	1.2 Data sources: Government, social media, Private, etc.	K1-K2		
	1.3 Data as a public good; personal data and the right to privacy; Awareness about sharing the data	K1-K3		

	1.4 Data collection agencies - Government and private sources	K1-K3		
	1.5 Levels of data- Micro and macro data - Global, Regional and Country specific data; Methodologies of data collection: Surveys, official records, etc	K1-K3		
	1.6 Big data – An introduction – Definition - Data evolution – essentials of big data in Industry 4.0	K1 -K4		
2	Data collection 2.1 Introduction to Indian Economy Data sources and extraction - Census Data Office, Ministry of (Mo)Home Affairs - Mo Statistics and Programme Implementation - National Family Health Survey reports, -NFHS Series, Mo Health & Family Welfare- Mo Education DISE data - Directorate of Economics & Statistics, Department of Agriculture and Farmers Welfare - RBI - Mo Finance - Labour Bureau, MoSPI - Annual Survey of Industries, NSSO- Niti Aayog.	K1-K5	10	1-5
	2.2 Introduction to Global data sources - International Monetary Fund, World Economic Outlook, Food and Agricultural Organization, World Bank, World Trade Organization, United Nations, etc.	K1-K5		
3	Descriptive Statistics 3.1 Summary statistics – Mean, median, mode, standard deviation, variance, Skewness	K1-K5	10	1 - 5
	3.2 Grouping data: Frequency distributions	K1-K5		
	3.3 Diagrammatic presentation of data.	K1-K5		
4	Correlation and Regression analysis 4.1 Estimating correlation and regression coefficients	K1-K5	20	1-5
	4.2 Testing the significance of correlation and regression coefficients: Test of significance and confidence interval approach	K1-K5		
	4.3 Estimating non-linear regression models: Double-log, Semi-log, Reciprocal	K1-K5		
	4.4 Simple regression models using dummy variables	K1-K5		
5	Inferential Statistics 5.1 Introduction to hypothesis-testing	K1-K5	15	1-5
	5.2 Large sample tests	K1-K5		
	5.3 Small sample tests	K1-K5		

BOOKS FOR STUDY

Damodar Gujarati, *Econometrics by Example*, 2nd editions, Palgrave Macmillan, London, 2014
Nargundkar Rajendra, Marketing Research-Text and Cases, 2nd edition, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2004.
SPSS Manual
Knapp, H. Introductory Statistics Using software (2nd ed.). Sage Publications, 2017
McCormick, K., & Salcedo, J. (n.d.). software Statistics for Data Analysis and Visualization. Wiley Publication, 2017

BOOKS FOR REFERENCE

Edward T Vieira,, Jr. Introduction to Real World Statistics: With Step-By-Step software Instruction. Routledge Publication, 2017
Norusis, Marija , software 17.0 Advanced statistical procedures companion. Upper Saddle River, NJ: Prentice Hall, 2009
Norusis, Marija software 17.0 Guide to data analysis, Upper Saddle River, NJ: Prentice Hall, 2009
Weisberg, Sanford ,Applied linear regression, Third edition, 2005

WEB RESOURCES

<http://www.discoveringstatistics.com/docs/reliability.pdf>
<http://www.statsoft.com/Textbook/ANOVA-MANOVA>
<http://www.iasri.res.in/iasriwebsite/DESIGNOFEXPAPPLICATION/Electronic-Book/Module%201/6SPSS-overview.pdf>
<https://www.educba.com/cluster-analysis-vs-factor-analysis/>
<https://www.statisticssolutions.com/using-chi-square-statistic-in-research/>

PATTERN OF ASSESSMENT (Only Practical)

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	1x 10 = 10 All Compulsory
	K2	10	1x 10 = 10 (Answer any 1 out of 2 questions)
B	K3	10	1x 10 = 10 (Answer any 1 out of 2 questions)
	K4	10	1x 10 = 10 (Answer any 1 out of 2 questions)
C	K5	10	1x 10 = 10 (Answer any 1 out of 2 questions)

Other Components:

Total Marks: 50

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination:
(Only Practical)

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	2x10 = 20 all compulsory
	K2	20	2x10 = 20 (Answer any 2 out of 3 questions)
B	K3	20	2x10 = 20 (Answer any 2 out of 3 questions)
	K4	20	2x10 = 20 (Answer any 2 out of 3 questions)
C	K5	20	2x10 = 20 (Answer any 2 out of 3 questions)

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23EC/MC/DA65												
VI	Course Title: DATA ANALYTICS AND ECONOMIC ANALYSIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	3	3	3	3	1	3	3	2
CO 2	2	2	3	1	2	3	3	2	3	1	3	3	2
CO 3	2	2	2	1	2	1	2	2	2	1	2	3	1
CO 4	3	3	3	1	3	3	3	2	3	1	3	3	1
CO 5	3	3	3	1	3	3	3	3	3	1	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV – ECONOMICS

SYLLABUS

(Effective from the academic year 2023 - 2024)

HISTORY OF ECONOMIC THOUGHT

CODE:23EC/MC/ET64

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To explore the origins of modern economic thought by examining key schools of thought such as Mercantilism and Physiocracy and their historical context.
- To trace the evolution of economic science and evaluate the contributions of various thinkers and schools of thought
- To analyse the impact of prevailing circumstances on the evolution of economic thought.
- To develop critical thinking skills by evaluating the intellectual contributions of early economic thinkers and understanding the intellectual transitions that led to the development of modern economic thought.
- To place economic thought in its historical context to provide students with a deeper appreciation of the evolution of economic ideas and their impact on economic systems.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	students will be able to recall and remember key economic thinkers and their contributions from various historical periods.	K1
CO2	students will demonstrate a clear understanding of the fundamental concepts of economic thought.	K2
CO3	students will apply economic theories and principles to analyze contemporary economic issues.	K3
CO4	students will analyze and evaluate the strengths and weaknesses of various economic theories and schools of thought, enabling them to identify the underlying assumptions, implications, and impacts of these theories on economic systems.	K4
CO5	students will critically evaluate the role of institutions and other factors discussed in economic development, assess the reasons for weak institutions in certain countries, and analyze real-world instances of market failures, drawing on the historical and theoretical knowledge acquired during the course.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Economic Thought – Meaning, Need for study of Economic Thought	K1-K3	10	1-5
	1.2 Origin of Modern Economic Thought – Mercantilism and Physiocracy	K1-K5		
	1.3 Application –Relevance of mercantilism in the globalised world	K1-K5		
2	The Classical Political Economy	K1- K4	14	1-5
	2.1 Adam Smith			
	2.2 David Ricardo	K1-K5		
	2.3 Thomas Robert Malthus	K1-K5		
	2.4 J.S.Mill	K1-K3		
	2.5 Application –Comparison of current capitalism with 18th century capitalism	K1-K5		
3	Alternative Schools of Thought	K1-K5	14	1-5
	3.1 Marxian Socialism – The theory of History & The law of motion of Capitalism			
	3.2 German Historical School –Critical and Positive ideas	K1-K3		
	3.3 Marginal Revolution –William Stanley Jevons , Carl Menger , Leon Walras	K1-K4		
	3.4 Keynesian Economics- Main Features of Keynesian Revolution –Contributions of Lord Keynes to Macro Economics	K1-K5		
	3.5 Indian Economic Thought – Dadabhai Naoroji , MK Gandhi	K1-K4		
	3.6 Application –Collapse of the communist regime in the 90's	K1-K5		
4	Neo Classical Economics and Welfare Economics	K1-K5	13	1-5
	4.1 Neo Classical Economics –Main Features –Alfred Marshall –Critique of Neoclassical School			
	4.2 Welfare Economics – Old Welfare Economics -A.C. Pigou: Externalities meet the market	K1-K5		
	4.3 New Welfare School –Vilfred Pareto : Pareto Efficiency	K1-K5		
	4.4 Welfare and Social Choice Theory - Kenneth K Arrow, Rawls and Amartya Sen	K1-K4		
	4.5 Application –Market Failure	K1-K5		
5	Institutional school	K1-K4	14	1-5
	5.1 Role of Institutions in Economics			
	5.2 Old Institutional School –Thorstein Bunde Veblen: Theory of the Leisure Class	K1-K5		
	5.3 New Institutional School - New Framework for understanding the New Institutional Economics	K1- K4		
	5.4 Transaction Costs: Robert Coase	K1-K3		
	5.5 Property Rights : Douglass North	K1-K3		
	5.6 Application : Role of institutions in development – Why some countries have weak institutions ?	K1-K5		

BOOKS FOR STUDY

Brue, Stanley L & Grant. Randy. *The Evolution of Economic Thought*. 8th Ed. Ohio: South Western, 2013.

Dasgupta, Ajit. *A History of Indian Economic Thought*. London & New York: Routledge, 1993.

Gide, Charles. and Rist. Charles. *A History of Economic Doctrines*. London: George G. Harrp, 1967.

Haney, Lewis H. *History of Economic Thought*. New York: University of Michigan Library, 2009.

Lokanathan V. *A History of Economic Thought*. 10th Edition, New Delhi: S. Chand, 2018

Roncaglia A. *The Wealth of Ideas. A History of Economic Thought*. Cambridge University Press, 2006

Schumpeter J. *A History of Economic Analysis*. Oxford University Press, 1954 II.

BOOKS FOR REFERENCE

Acemoglu, Daron, and James A. Robinson. *Why Nations Fail*. Profile Books, 2013.

Blaug, M. (1997), *Economic Theory in Retrospect: A History of Economic Thought from Adam Smith to J.M. Keynes*, (5th edition), Cambridge University Press, Cambridge.

Deane, Phyllis. *The Evolution of Economic Ideas*. London: Cambridge University Press, 1978.

Heilbroner R. *Worldly Philosophers*, Simon & Schuster (any edition)

Keynes J.M. *General Theory of Employment, Interest and Money*. (any edition) Marshall A. *Principles of Economics*. (any edition)

Ricardo D. *On the Principles of Political Economy and Taxation*. (any edition) Roll, Eric. *History of Economic Thought*. London: Faber & Faber, 2006.

Seligman B. *Main Current Trends In Modern Economics*. New York: The Press of Golencoe, 1963.

Smith A. *An Inquiry into the Nature and Causes of A Wealth of Nations* (any edition)

Veblen T. *The Theory of the Leisure Class* (any edition)

Walras L. *Elements of Pure Economics*. Irwin, 1954

Schumpeter J.A. *Ten Great Economists: From Marx to Keynes*. (any edition)

ARTICLES

Coase, R. (1937). 'The Nature of the Firm', *Economica*, New Series, 4(16): 386-405.

Coase, R. H. (1960). The problem of social cost. In *Classic papers in natural resource economics* (pp. 87-137). Palgrave Macmillan, London.

Julio Faundez (2016) Douglass North's Theory of Institutions: Lessons for Law and Development, *Hague J Rule Law* (2016) 8:373-419

North, D. (1991), 'Institutions', *Journal of Economic Perspectives*, 5(1): 97-112.

Ostrom, E. (1986). An agenda for the study of institutions. *Public Choice*, 48(1), 3-25.

Williamson, O. (2000), 'The New Institutional Economics: Taking Stock, Looking Ahead', *Journal of Economic Literature*, 38: 595-613.

JOURNALS

Journal of the History of Economic Thought

The European Journal of the History of Economic Thought

WEB RESOURCES

<https://www.etcases.com/media/clnews/14214979671707593998.pdf> (Accessed on 20Sept 2023)

<http://digamo.free.fr/backhaus122.pdf> (Accessed on 20Sept 2023)

<http://modernecon.org/wp-content/uploads/2012/12/history-of-thought-Final-print-book-3.pdf> (Accessed on 20Sept 2023)

http://cobe.boisestate.edu/lreynol/WEB/PDF_HET/CHAPTER1INTRO.pdf(Accessed on 20Sept 2023)

http://mises.org/sites/default/files/Austrian%20Perspective%20on%20the%20History%20of%20Economic%20Thought_Vol_2_2.pdf (Accessed on 20Sept 2023)

http://economics.uwo.ca/people/laidler_docs/theroleof.pdf (Accessed on 20Sept 2023)

http://is.vsfs.cz/el/6410/zima2013/BA_ETD/um/4176060/-An-Outline-of-the-History- ofEconomic-Thought-Screpanti-and-Zamagni-Oxford-2005-2nd-Ed.pdf(Accessed on 20Sept 2023)

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/MC/ET65												
VI	Course Title: HISTORY OF ECONOMIC THOUGHT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	3	2	3	2	3	3
CO 2	3	3	3	3	2	1	2	2	3	3	2	3	3
CO 3	3	3	3	3	2	1	2	2	3	3	2	3	3
CO 4	3	3	3	3	2	1	2	2	3	3	2	3	3
CO 5	3	3	3	3	2	1	2	2	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV – ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO GENDER ECONOMICS

CODE: 23EC/MC/GE62

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To understand gender as a socially constructed concept and how it shapes economic behaviour, opportunities and outcomes
- To understand the factors contributing to gender wage gaps, occupational segregation and disparities in employment opportunities.
- To cite gender relations and power dynamics behind individuals access to and distribution of resources.

COURSE LEARNING OUTCOMES

On Successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall concepts pertaining to gender	K1
CO 2	compare the economic implications borne by women and marginalized sections and men	K2
CO 3	apply theory to real life scenario	K3
CO 4	critically assess gender relations and power dynamics underlying individuals access to and distribution of resources in various socio-economic contexts	K3
CO5	analyze the effective of policy interventions	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Patriarchy	K1, K2	2	1-5
	1.1 Meaning -Definition of Patriarchy			
	1.2 Impact of patriarchy people	K2		
2	Introduction to Gender	K1, K2	4	1-5
	2.1 Meaning – Gender – Social construct			
	2.2 Differences between Gender and Biological Sex- Gender Bias	K2		
3	Gender and Development Issues	K3	4	1-5
	2.3 Impact of Gender on People – Sexism – Sex Stereotypes- Gendered Division of Labour	K1		
	3.1 Feminization of Poverty	K1		
4	3.2 Gender disparities – Education, Health and access to finance.		6	1-5
	Gender , Globalization and the Environment	K1-K3		
	4.1 Impact of globalization on Women – Impoverishment of the Environment – Women and Environment			

5	Women and work	K1	10	1-5
	5.1 Women in the organized and unorganized sector			
	5.2 Unpaid Care work - Labour for Love – Invisible worker, Visible Work	K2		
	5.3 Valuation of productive and unproductive work – paid and unpaid work	K2		
	5.4 Wage discrimination – Gender wage gap, Glass Ceiling, Glass Cliff, and Sticky floor	K3		

BOOK FOR STUDY

Bhasin Kamala., Understanding gender ; Kali for women, New Delhi, 2000.

Geetha V., Gender, Bhatkal & Sen; Kolkata, 2006

BOOKS FOR REFERENCE

Eswaran, M., Why Gender Matters in Economics, Princeton University Press, 2014.

Anne-Marie Slaughter Unfinished Business: Women Men Work Family, Penguin Random House ,2016

Bosarup Ester. Women's Role in Economic Development, George Allen and Unwin, London. 1970.

Devasia Leelamma Empowering Women for Sustainable Development, Ashish Publishing House, New Delhi , 1994.

Agarwal,Bina. Capabilities, Freedom and Equality: Amartya Sen's Work from a Gender Perspective ed. London: Asia Cambridge University Press, 2006.

Bhasin, Kamala. Patriarchy. New Delhi: Kali for Women.,1991.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	20	20 x 1 = 20 (Objective type) Answer all questions
B	K2	20	5 x 4 = 20 (150 words each) 5 out of 6 questions.
C	K3	10	2 x 5 = 10 (300 words each) 2 out of 3 questions.

Other Components:

Total Marks: 50

Seminars/Quiz/Concept Test/Group discussion/Assignments/Article Review

No End-Semester Examination

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23EC/MC/GE62												
VI	Course Title: INTRODUCTION TO GENDER ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	1	3	2	1	3	2	3
CO 2	3	3	2	1	2	2	1	3	2	1	3	2	3
CO 3	3	3	2	1	2	2	1	3	2	1	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi- Canticle of creatures Seeking the Divine through meditation, prayer and worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and

- responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

MARKETING

CODE: 23EC/ME/MT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To outline marketing concepts and its application to different markets
- To identify factors and processes essential for designing marketing strategies
- To analyse and examine the implementation of marketing concepts and strategy to firms
- To comprehend the marketing environment
- To inculcate and identify the various marketing tools used by marketing managers in decision situations

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define key marketing concepts	K1
CO2	comprehend the scope and significance of concepts and theories of marketing in modern business	K2
CO3	identify and apply the key principles and tools of marketing to real life business	K3
CO4	analyse the theories, issues and challenges of marketing in a growing global context	K4
CO5	critically evaluate existing literature on marketing mix and ethics of marketing	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1 – K3	10	1-5
	1.1 Evolution of Marketing –Meaning Definition, Classification and Significance			
	1.2 Role of Marketing in Developed and Developing Countries.	K1 – K4		
	1.3 Micro and Macro Environment in Marketing	K1 – K5		
	1.4 Marketing Mix	K1 - K5		
	1.5 Market Segmentation	K1-K5		

UNIT	CONTENT	CL	HRS	CO
2	Product Decision		14	1-5
	2.1 Individual Product Decisions-Attributes, Branding, Packaging and Labelling	K1-K5		
	2.2 Product Mix and Product Line	K1 – K5		
	2.3 New Product Development	K1 – K5		
3	2.4 Product Life Cycle	K1-K5	14	1-5
	Product Pricing	K1 – K2		
	3.1 Product Pricing-Definition, Objectives and Types	K1 – K5		
4	3.2 New Product Pricing	K1 – K4	14	CO1-5
	3.3 Pricing Strategy			
	Distribution	K1- K3		
	4.1 Factors Affecting Choice of Channel	K1- K3		
5	4.2 Classification of Channel Members	K1 – K4	13	1 -5
	4.3 Functions of Retailers	K1-K3		
	4.4 Elimination of Middlemen			
	Promotion and Marketing Ethics	K1-K4		
	5.1 Objectives of Marketing Communication	K1 – K5		
	5.2 Promotional Mix- Advertising, Sales Promotion, Sales Force and Publicity	K1 – K5		
	5.3 Marketing Ethics	K1 – K4		
	5.4 Consumerism	K1-K5		
	5.5 Consumer Protection			

BOOKS FOR STUDY

Philip Kotler and Gary Armstrong, Principles of Marketing, New Delhi, Prentice Hall of India Pvt.Ltd, 1988.

Philip Kotler. Marketing Management and Analysis, Planning Implementation and Control, New Delh, Prentice Hall of India Pvt. Ltd. 1993.

BOOKS FOR REFERENCE

Cundiff Edward & Still Richard. Fundamentals of Modern Marketing, New Delhi, Prentice Hall of India Pvt. Ltd' 1999

Ramaswamy, V.S. and S. Namakumari. Marketing Management: The Indian Context, New Delhi Macmillan India Ltd., 2009

William J. Stanton, Michael J. Etzel, Bruce J. Walker. Fundamentals of Marketing, New York

McGraw Hill International. 1994

JOURNALS

Quantitative Marketing and Economics

Journal of Economics and Business

WEB RESOURCES

https://assets.openstax.org/oscms-prodcms/media/documents/Principles_Marketing-WEB.pdf

https://opac.atmaluhur.ac.id/uploaded_files/temporary/DigitalCollection/ODIjY2E4ODIyODViZjFkODgzNDUxYWZINWFhZmY2MGE5MDc0ZDVmYWw=.pdf

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Exam:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/ME/MT45												
	Course Title: MARKETING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	1	3	3	3	2	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

FINANCIAL MARKETS

CODE: 23EC/ME/MF45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the basic concepts in financial markets
- To give students an overview of the financial markets and financial institutions
- To help students to understand and analysis interest rates and its role in investment decision.
- To help students in analyzing the risk and returns of the various financial instruments.
- To help students comprehend the working of monetary policy

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the basics of financial market and the financial products.	K1
CO2	understand the role of financial institutions and the Indian Financial system in the context of the financial instruments.	K2
CO3	application of theories to decision making process of investing in financial assets.	K3
CO4	analyze functioning of Stock Exchange and the currency market and evaluation various financial products in the primary and secondary markets	K4
CO5	create an ability to understand the monetary policy ant its tools in the functioning of the monetary system.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	INTRODUCTION	K1-K3	10	1-5
	1.1 Overview of the Financial Markets- Money market, Capital Market, Derivative security market and Foreign exchange market	K1-K3		
	1.2 Overview of Financial Institutions – Organized and unorganised institutions, Banks and non-banks	K1-K3		
	1.3 Structure of the Indian Financial Market	K1-K5		

UNIT	CONTENT	CL	Hrs	CO
2	Theories and Determination of Interest Rates	K1- K4	13	1-5
	2.1 Loanable Fund Theory			
	2.2 Term Structure of Interest rate- Unbiased expectation theory, Liquidity Premium theory, Market segmentation theory	K1-K5		
	2.3 Determination of interest rates for individual securities- inflation, real risk-free rates, default of credit risk, liquidity risk, term of maturity	K1-K5		
	2.4 Time value of money and interest rate- Time value of money, lump sum valuation and Annuity valuation	K1-K4		
	2.5 Forecasting interest rates	K1-K5		
3	Theoretical Framework	K1-K5	13	1-5
	3.1 Risk and Return, Portfolio Diversification, A risk-free asset, Market Portfolio and Capital Market Line			
	3.2 Capital Asset Pricing Model (CAPM) – Systematic risk, CAPM assumptions and expression, Security Market Line and Asset Valuation	K1-K5		
	3.3 Market Efficiency- Efficient Market Hypothesis, Beating the market, weak, semi-strong and strong form market analysis_	K1-K5		
4	Financial Institutions	K1 -K5	13	1-5
	4.1 Banking Institution- Commercial banks -Role and functions			
	4.2 Non-Banking Financial Companies (NBFC's)	K1 -K5		
	4.3 Development Financial Institutions (DFI)	K1 -K5		
	4.4 Insurance Companies- Life and non-life insurance companies	K1 -K5		
	4.5 Mutual funds – Types and role	K1 -K5		
5	Financial Markets	K1 -K5	16	1-5
	5.1 Money Market - Definition, Types, Yields on Money market securities, Money market participants, international aspects of money market.			
	5.2 Bond Market – Definition, Bond market securities, Bond market participants, International aspects of bond market	K1 -K5		
	5.3 Stock Market- Stock market securities, Primary and Secondary stock market, Stock market participants, issues pertaining to stock market (economic indicators, market efficiency, stock market regulations)	K1 -K5		
	5.4 Derivative Security Market: Forward and Futures, Options, Swaps, Caps, Floors and Collars, International aspects of derivate security market	K1 -K5		
	5.5 Foreign Exchange Market: Foreign Exchange Rates and Transactions (Foreign Exchange Rates, Foreign Exchange Transactions, Return and Risk of Foreign Exchange Transactions, Role of Financial Institutions in Foreign	K1 -K5		

UNIT	CONTENT	CL	Hrs	CO
	Exchange Transactions) Interaction of inflation, interest rates and exchange rates: purchasing power parity and interest rate parity			

BOOKS FOR STUDY

Erickson .K.H, Financial Economics: A Simple Introduction, Create Space Publishers, California, 2014

Mishkin. S. Frederic. Economics of Money, Banking and Financial Market: New York ; Harper Collins College Publisher, 2007.

Saunders Anthony and Cornett Marcia Millon, Financial Markets and Institutions, McGraw Hill Education, 6th Edition, US, 2012.

BOOKS FOR REFERENCE

Mishkin.F.S and Serletis. A. , Economics of Money ,banking and Financial Markets, Pearson Publication, New Delhi, 2011

Nelke.A and Polleit.T., Monetary Economics in Globalised Financial Markets, Springer Publication, 2009.

Sundharam, K.P.M. Money Banking Trade and Finance. New Delhi: Sultan Chand, 2004.

Jadhav, N. Monetary Policy- Financial Stability and Central Banking in India. New Delhi: MacMillan, 2006.

Khan, M.Y. Indian Financial System, 7th Ed. New Delhi: Tata McGraw Hill,2011.

Kunjukunju, Benson and Mohanan S, Financial Markets and Financial Services in India. New Delhi: New Century Publication, 2012.

Majumdar, N.A Financial Sector reforms and India's Economic Development. Vol 1. New Delhi: Academic Foundation,2002.

Mishkin, F.S. and S.G. Eakins, Financial Markets and Institutions. 6th Ed. Pearson Education Asia, 2009.

Rakesh, Mohan. Growth with Financial Stability – Central Banking in an Emerging Market. New Delhi: Oxford University Press, 2011.

Reddy,Y.V . Lectures on Economic and Financial Sector Reform in India. New Delhi: Oxford University Press, 2002

WEB RESOURCES

www.mospi.nic.in

<https://prezi.com/nqadt5-xobnq/m2-analyse-the-effects-of-fiscal-and-monetary-policies-for-a/>

JOURNALS

Journal of Emerging Financial Markets

Journal of Financial Markets

Journal of Financial Economics

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Exam:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
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	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/ME/MF45												
	Course Title: FINANCIAL MARKETS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	2	3	3	2	1	3	3	3	2	1
CO 4	3	3	3	2	3	3	2	1	3	3	3	2	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

ECONOMIC RESEARCH AND ANALYSIS

CODE:23EC/ME/RA45

CREDITS:5

L T P: 2 0 3

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To introduce students to empirical research analysis.
- To critically assess the existing literature and develop appropriate research design considering their strengths, weaknesses and limitations.
- Apply analytical skills to identify logical flaws and biases.
- To gain familiarity with qualitative techniques in data analysis.
- To comprehend the application of statistical and econometric techniques in analysing economic data

COURSE LEARNING OUTCOMES

On Successful completion of the course, students will be able to

CO	DESCRIPTION	CL
CO 1	gain familiarity with the process involved in economic research.	K1 - K2
CO 2	apply the tools of statistics, econometrics and research methods in economic research.	K1 - K4
CO 3	develop critical thinking ability and sharp analytical skills to assess the logical validity of arguments.	K1 - K3
CO 4	ability to design qualitative research methods in economic analysis.	K1 - K5
CO 5	demonstrate proficiency in using statistical software packages in data analysis.	K1 - K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1, K2	10	1
	1.1 Meaning, Objectives & Significance of research			
	1.2 Meaning, Objectives & Significance of social science research, Significance and Problems of scientific social research	K1 - K4		
	1.3 Research Types	K1 - K4		

UNIT	CONTENT	CL	HRS	CO
2	Research Process			
	2.1 Research Problem – Meaning, Statement of a research problem	K1 - K4	20	1, 2
	2.2 Literature Review – Meaning, Purpose of literature review, Kinds of sources, Documenting sources, Writing Literature review			
	2.3 Hypothesis testing – Introduction, Procedure and Approaches	K1 - K5		
	2.4 Research Design –Meaning and types	K1 - K5		
	2.5 Sampling techniques	K1 - K5		
	2.6 Data - Types, Sources of Data, Data Collection Techniques	K1 - K5		
3	Logic			
	3.1 Logic of Reasoning	K1 - K5	10	3
	3.2 Propositions, Arguments, Premises	K1 - K5		
	3.3 Deduction and Induction	K1 - K5		
	3.4 Validity and Truth, Fallacies Syllogism	K1 - K5		
4	Qualitative Methods			
	4.1 Defining Qualitative Methods – Meaning of Knowledge – Epistemology Modern (Cartesian) – A Critique – Standpoint Epistemology – Ontology – Ontological Assumptions	K1 - K5	10	4
	4.2 Four major Qualitative Approaches – Ethnography, Phenomenology, Field Research, Grounded Theory	K1 - K5		
	4.3 Methods of Qualitative measurements – Participant Observation, Direct Observation, Interview method, Case Studies, Vignettes	K1 - K5		
5	Data Analysis - Practical Session	K1 - K5	15	1 - 5
	5.1 Descriptive Statistics - Measures of Central Tendency, Dispersion and Deviation from normality			
	5.2 Exploring data with graphs and Frequency Distribution	K1 - K5		
	5.3 Measures of deviation from normality –Skewness and Kurtosis	K1 - K5		
	5.3 Correlation and Regression –Simple, Partial, Multiple	K1 - K6		
	5.4 Non-Linear relationships –Alternate Functional form specifications	K1 - K6		
	5.5 Regression using Dummy Variable Techniques	K1 - K6		
	5.6 Comparing two means –‘t’ Test	K1 - K6		
	5.7 Comparing several means -ANOVA: One way and Two way	K1 - K6		
	5.8 Report Writing - Significance - Steps - Layout of the research report.	K1 - K6		

BOOKS FOR STUDY

Ramanathan, Ramu. *Introductory econometrics with applications*. New Delhi, India: South-Western, a division of Thomson Learning, 2008.

Kothari, C. R., and Gaurav Garg. *Research methodology: Methods and techniques*. New Delhi: New Age International (P) Limited, Publishers, 2019.

BOOKS FOR REFERENCE

Babbie, Earl R. *The practice of Social Research*. Boston, MA: Cengage, 2021.

Cochran, William G. *Sampling techniques*. New York: J. Wiley, 2006.

Goode, William J., and Paul K. Hatt. *Methods in social research: International student edition*.

McGraw-Hill, 2017.

Neuman, W. Lawrence. *Social Research Methods: Qualitative and quantitative approaches*. Boston, MA: Pearson Education, Inc., 2020.

Wilkinson, T. S., and P. L. Bhandarkar. *Methodology and techniques of Social Research*. Bombay: Himalaya Pub. House, 2016.

JOURNALS

International Journal of Social Research Methodology

International Journal of Qualitative Methods

WEB RESOURCES

http://www.seu.ac.lk/public_access/Research_Methodology.pdf

<http://www.cles.org.uk/wp-content/uploads/2011/01/Research-Methods-Handbook.pdf>

PATTERN OF ASSESSMENT

NO CONTINUOUS ASSESSMENT

Other Components:

Total Marks: 50

Quiz, Problem solving, Presentation of Article Summaries: -

Article Summary to answer the following questions:

1. What is the central economic issue in the article?
2. What hypothesis/ objective were tested?
3. Discussion of the conceptual model
4. Empirical Model
5. DESCRIPTION of the variables, functional form, summary of findings
6. How to improve the study or follow up this study

NO End-Semester Examination:

Students are expected to submit a Minor research Project. Total Marks: 50

An external examiner along with the respective internal examiners will conduct the Viva Voce exam for the students who register for this course.

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/ME/RA45												
	Course Title: ECONOMIC RESEARCH AND ANALYSIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	2	3
CO 2	3	3	3	3	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	3	2	2	1	1	3	3	3	3	1
CO 4	3	3	3	3	3	2	1	1	3	3	3	3	1
CO 5	3	3	3	3	3	3	2	2	3	3	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023–2024)

AGRICULTURAL ECONOMICS

CODE: 23EC/ME/AG45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To define the fundamental concepts and principles of agricultural economics.
- To enhance critical thinking by evaluating complex agricultural economic challenges and propose practical solutions.
- To understand the need for agricultural finance.
- To give an overview of the trends in agricultural production of the major crops in India.
- To appraise the agricultural marketing system in India.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the key concepts in agricultural economics	K1
CO2	comprehend the operation of the fundamental concepts	K2
CO3	apply to varied real-life situations in the Indian context	K3
CO4	analyse the Indian agricultural prospects	K4
CO5	evaluate the effectiveness of the policies with respect to Indian agriculture	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Nature and Scope of Agricultural Economics	K1-K2	10	1-4
	1.1 Definition, scope, and nature of agricultural economics			
	1.2 Role of Agriculture in economic Development –Developed vs Developing Economy	K1-K4		
	1.3 Agricultural Linkages with other sectors – Changing nature of linkage	K1-K4		
	1.4 Types and systems of farming	K1-K4		
2	Agricultural Production and Productivity	K1-K2	13	1-5
	2.1 Production Function in Agriculture – resource use efficiency			
	2.2 Input- output and production relationship in farm Production – Issues related to agricultural labour	K1-K3		
	2.3 Growth and productivity trends in Indian Agriculture for major crops	K1-K5		

UNIT	CONTENT	CL	Hrs	CO
3	Agricultural Credit	K1-K2	14	1-5
	3.1 Importance of agricultural credit			
	3.2 Need for government intervention – price and agricultural commodities	K1-K5		
	3.3 Agricultural credit system in India – organised and unorganised credit	K1-K5		
	3.4 Role of NABARD in agricultural credit	K1-K5		
	3.5 Problems of Small and Medium farmers in getting agricultural finance	K1-K5		
4	Agricultural Price Policy	K1-K4	14	1-5
	4.1 Need, Objectives and Instruments of agricultural price policy			
	4.2 Shortcomings of price policy – suggestions for improvement	K1-K5		
	4.3 Agricultural Price Policy in India	K1-K5		
	4.4 Terms of trade between agricultural and non-agricultural price policy	K1-K4		
5	Agricultural Marketing	K1-K4	14	1-5
	5.1 Agricultural marketing – definition, importance and problems			
	5.2 Markets and marketing function – channels of distribution	K1-K5		
	5.3 Current agricultural marketing system – APMC and E-NAM	K1-K5		

BOOKS FOR STUDY

Soni R.N. *Leading Issues in Agricultural Economics*, 2015, Vishal Publishing Co., New Delhi.

Heady, E O, *Economics of Agricultural Production and Resource use.*; 1964, Prentice-Hall of India Pvt. Ltd., New Delhi.

BOOKS FOR REFERENCE

Metacalf, D, *The Economics of Agriculture*; 1969, Penguin Modern Economics, New York
 Sadhu and Singh: *Agricultural Economics*. 2016, Himalaya Publishing House, Chennai.

REPORTS

Department of Agriculture & Farmer's Welfare, Ministry of Agriculture & Farmer's welfare – Annual report

Agricultural Situation in India, Annual report – MOSPI

State of Indian Agriculture

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Exam:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/ME/AG45												
	Course Title: AGRICULTURAL ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	3	2	2	2	3	3	3
CO 2	3	3	3	1	2	2	3	2	2	2	3	3	3
CO 3	3	3	3	1	2	2	3	2	2	2	3	3	3
CO 4	3	3	3	1	3	3	3	3	3	2	3	3	3
CO 5	3	3	3	1	3	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

APPLIED MATHEMATICS

CODE: 23EC/ME/AM45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE.

- To familiarize students with quantitative analysis of the theory of firm to gain interest for research in markets using optimization techniques.
- To appraise the ability to devise mathematical modelling for economic theories using difference and differential equations.
- To develop competency on analytical skills for model building and policy making.
- To apply quantitative techniques to respond to economic issues at regional, national and in the Global scenario
- To upgrade the acquired mathematical skills to an advanced level in order to emerge as a highly equipped corporate and an analyst.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	use quantitative tools to investigate real time economic variables	K1
CO2	exemplify applied quantitative techniques to solve key economic issues and problems	K2
CO3	broaden student's horizons and enable them to apply optimisation techniques to devise mathematical models for the current economic issues	K3
CO4	appraise market analysis by quantitatively examining the working of the firm and the functions of different market structure	K4
CO5	develop critical thinking to evaluate and construct quantitative economic models	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Optimization techniques and its economic application 1.1 Constrained Maxima - Minima	K1-K4	10	1-5
	1.2 Economic application to constrained optimization – Cost Minimization, Output Maximization, Utility Maximization	K1-K5		
	1.3 Application to equations with parameters – Production function- Homogenous production function – Solving production function	K1-K5		
	1.4 Cobb- Douglas production function – CES - Eulers theorem	K1-K5		
2	Theory of Firm – Optimization techniques 2.1 Market equilibrium – Perfect Competition	K1-K5	15	1-5
	2.2 Market equilibrium – Imperfect competition – Monopoly, Price discrimination	K1-K5		
	2.3 Oligopoly Market - Game theory – Concept, types of games	K1-K5		
	2.4 Pay-off tables- Types, Pure, Mixed, and optimum strategies	K1-K5		
	2.5 Max- Min principle- saddle point - Value of Game – Dominant theories	K1-K5		
3	Linear Programming 3.1 Introduction to Linear Programming – Assumptions, Theorems, Formulation of Linear Programming – Economic application	K1-K3	10	1-5
	3.2 Graphical Solution of the Diet and Production Problems	K1-K3		
	3.3 Formulation of the Dual Programme –Statement of Duality Theorems	K1-K4		
4	Integration 4.1 Introduction to Integration	K1-K3	15	1-5
	4.2 Basic Integration sums - Methods of Integration – Parts, Substitution, and Partial fractions (Basic arithmetic sums only)	K1-K3		
	4.3 Definite Integrals (Basic sums only)	K1-K3		
	4.4 Consumer and Producer surplus	K1-K4		
5	Dynamic Analysis 5.1 Difference Equations – First and Second Order	K1-K3	15	1-5
	5.2 Difference Equations and Economic models - Cobweb Model, Samuelson's Multiplier Accelerator	K1-K5		
	5.3 Differential Equations – First and Second Order	K1-K3		
	5.4 Differential Equations and Economic models - Harrod-Domar and Solow Model	K1-K5		

BOOKS FOR STUDY

Chiang, A.C. and Kevin Wain Weight, *Fundamentals Methods of Mathematical Economics*. Indian edition: McGraw Hill International, New Delhi, 2017
Mehta, B.C. and Madnani, G.M. *Mathematics for Economists*. New Delhi: Sultan Chand, 2008
Allen, R.G.D. *Mathematical Economics*, Madras: English Language Book Society and Macmillan Press, 1973.
Anjali Bansal, *Mathematical Methods for Economics*. New Delhi: Nath Enterprises, 1995.

BOOKS FOR REFERENCE

G.S. *Mathematics for Management and Economics*, Vikas Publishing House Pvt.Ltd., New Delhi, 1996
Narayanan, S. and Manicavachagam. Pillay T.K. *Calculus*. Madras: Viswanthan Printers and Publishers, 1995.
Natarajan and Manicavachagam Pillay. *A Text Book of Analytical Geometry*, Madras: S.Viswanthan Printed and Publishers, 1981.
Sancheti, D.C. and V.K. Kapur, *Business Mathematics*, New Delhi: Sultan Chand, 1981.
Sydsaetar, Knut and Peter. Hammond. *Mathematics for Economic Analysis*. Singapore: Pearson Education, 2005.
Terasa Bradley and Paul Patton, *Essential Mathematics for Economics and Business*, Revised by Teresa Bradley, Wiley student Edition 4, , 2013
Hoel PG : *Introduction to mathematical Statistics*, John Wiley & Sons, Edition 4, 1971.
Tulsian, P.C and Vishal Pandey: *Quantitative Techniques*, Pearson Education, New Delhi, 2006.
Dowling, Edward T: *Introduction to Mathematical Economics*, Third Edition, Schuman's outlines, Tata Mc Graw hill Publishing Co. Ltd, New Delhi, 2011.
Sreenath Baruah: *Basic Mathematics and its Applications in Economics*, Mc Millian India Ltd, 2011.
Joseph K.X, *Quantitative Techniques*, CUCCS Ltd, Calicut University, 2006

JOURNALS

Journal of Mathematical Economics and Finances
Journal of Mathematical Economics

WEB RESOURCES

<http://www.econ2.uni-bonn.de/mitarbeiter/downloads/mathnotes.pdf>
<https://academicearth.org/economics> 2.
<https://www.pearsonmylabandmastering.com/northamerica/mymathlab> 3.
<https://ocw.mit.edu> 4. <https://oyc.yale.edu>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:**Total Marks: 50**

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Exam:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions – short answers
B	K3	20	4x 5 =20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 =20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/ME/AM45												
	Course Title: APPLIED MATHEMATICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	2	3	1	2	2	2
CO 2	3	3	3	1	2	2	2	2	3	1	3	3	2
CO 3	3	3	3	1	3	3	2	3	3	1	3	3	2
CO 4	3	3	3	1	3	3	3	3	3	1	3	3	3
CO 5	3	3	3	1	3	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH IV- ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

HEALTH ECONOMICS

CODE: 23EC/ME/HE45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To understand the importance of health sector in economic development
- To evaluate the components of demand and supply of health care
- To Understand the importance of Health Indicators.
- To evaluate the components of Demand of Healthcare.
- To examine the review the existing Health Infrastructure.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the importance of Health Indicators.	K1
CO2	evaluate the components of Demand of Healthcare.	K2
CO3	analyze the importance of Supply of Healthcare Services.	K3
CO4	review the Existing Health Infrastructure and Budget Allocation.	K4
CO5	trace the growth of Medical Tourism in India and understand the need for Health Insurance.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Health Economics	K1-K2	10	1-5
	1.1 Health and Economic Development - Determinants of Health)	K1-K5		
	1.2 Health Indicators – Birth Rate – Fertility – Morbidity – Mortality – IMR – CMR – MMR – Disability Adjusted Life Year (DALY) – Sex Ratio- Quality Adjusted Life Year (QALY			
	1.3 Amartya Sen’s Capability Approach.	K1-K3		

UNIT	CONTENT	CL	HRS	CO
2	Demand for Health Care		15	1-5
	2.1 Demand for Health Care Services	K1-K3		
	2.2 Preference for Health Care using Indifference Curves – Budget Constraints	K1-K4		
	2.3 Income and Price Effects for Health Care	K1-K4		
	2.4 Elasticity of Demand for Medical Care	K1-K5		
3	Supply of Health Care		15	1-5
	3.1 Supply of Health Care Services	K1-K4		
	3.2 Physicians and Medical Personnel as Health Care Providers	K1-K5		
	3.3 Non-Labor Inputs – Hospitals	K1-K3		
	3.4 Interaction of Demand and Supply of Health Care	K1-K5		
4	Health Infrastructure	K1-K5	15	1-5
	4.1 Health Infrastructure – Rural – Urban – Government Programmes			
	4.2 Preventive, Promotive and Curative Health Care Services	K1-K5		
	4.3 Health Allocation in Budget	K1-K5		
5	Health Services and Medical Insurance	K1-K4	10	1-5
	5.1 Health Insurance -Types of Insurance Policies in India			
	5.2 Medical Ethics -Medical Tourism.	K1-K5		

BOOKS FOR STUDY

Xamer Martinez Giralto (2010), “Principles of Health Economics”, Routledge, 2010
 Banerjee, D. (1975), social and Cultural Foundations of Health Service Systems of India, Inquiry, Supplement to Vol. XII, June 1975
 Jay Bhattacharya, Timothy Hyde and Peter Tu, “Health Economics”, Palgrave Macmillan, 2014
 Peter Zweifel, Friedrich Breyer, Mathias Kifmann, “Health Economics, Springer Berlin Heidelberg, 2009
 Barbara McPake, Charles Normand, Charles E. M. Normand, “Health Economics: An International Perspective”, Routledge, 2008

BOOKS FOR REFERENCE

Himanshu Sekhar Rout and Prasant Kumar Panda (2010) Health Economics in India
 Edwin G Dolan and John C Goodman
 D. Amutha (2016) “A Textbook of Health Economics”, Edition 1, Mangalam Publishers and Distributors, Chennai.
 Charles E. Phelps, Health Economics”, Routledge, 2017
 Jan Abel Olsen, “Principles in Health Economics and Policy”, OUP Oxford, 2017

WEB RESOURCES

www.census.org

www.NFHS.org

www.NSSO.org

<https://tnhealth.tn.gov.in/>

<http://tnhalh.tn.gov.in/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/Case Study

End-Semester Exam:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions –
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

Mapping of Course Outcomes (Cos) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23EC/ME/HE45												
IV	Course Title: HEALTH ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	3	2	2	3	2	1	2	1	3	2	2
CO 2	2	1	2	3	2	2	2	2	2	2	2	2	2
CO 3	3	1	3	2	3	3	3	3	3	2	3	3	3
CO 4	2	1	2	2	3	3	2	3	2	2	3	3	3
CO 5	2	1	2	3	2	2	3	2	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course offered by the Department of Economics for
B.A. /B.Sc. /B.Com. /B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

ECONOMIC ISSUES

CODE: 23EC/GE/EI22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To develop an awareness of the basic issues in the context of Indian economy
- To equip with skills to identify the causes of the economic issues
- To be able to analyze the real-life situations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify and state the key issues of Indian economy	K1
CO2	explain the economic issues and its measurement criteria	K2
CO3	illustrate the application of basic economic concepts to real life situations	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	India as a developing Economy	K1-K2	8	1-3
	1.1 Meaning of Development			
	1.2 Features of Indian Economy as a developing economy	K1-K3		
	1.3 National income of India – Problems in computing national income in India	K1-K3		
	1.4 An overview of Infrastructure development – Problems of Transport development – Status of Health care and Education in India	K1-K3		
2	Poverty and Unemployment	K1-K3	8	1-3
	2.1 Meaning of poverty – types of poverty – causes of poverty and measures to reduce poverty			
	2.2 Inequalities in income distribution	K1-K2		
	2.3 Unemployment – types of unemployment – causes and measures	K1-K3		
3	Agriculture and Industrial Development	K1-K3	10	1-3
	3.1 Role of agriculture in India – Causes for low productivity			
	3.2 An overview of Green Revolution – Success and Failures	K1-K3		

UNIT	CONTENT	CL	Hrs	CO
	3.3 Industrial development in India – Major problems faced by the Indian industries	K1-K3		
	3.4 Problems of Small Scale and Cottage Industries in India	K1-K3		

BOOKS FOR STUDY

Dutt.R. and K.P.M Sundaram. 2019. Indian Economy, S.Chand and Co, New Delhi.

Agarwal.A.N. 2016. Indian Economy, Wiley Eastern Ltd, New Delhi.

BOOKS FOR REFERENCE

Srinivas Y.Thakur.2015. Indian Economic Development, Sterling Publishers, New Delhi.

Choudry. C.M., Rural Economics- Jaipur- Sublime Publication 2009.

DhingraI.C.,The Indian Economy, Sultan Chand, New Delhi, 2010.

Government of India, Economic Survey, (various years)

WEB RESOURCES

<http://agricoop.nic.in/ministry-major-schemes>

<https://www.india.gov.in/website-ministry-agriculture-farmers-welfare>

https://www.niti.gov.in/writereaddata/files/document_publication/Rural_Economy_DP_final.pdf?utm_source=VKD&utm_medium=website&utm_campaign=eletter&utm_content=VKD

<https://mhrd.gov.in/>

JOURNALS

Journal of Rural Studies

Journal of Rural Economics

The Indian Economic Journal

Agricultural Economic Research Review

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	15	5 x 3 = 15 (60 words each) 5 out of 7 questions
B	K2	15	3 x 5 = 15 (80 words each) 3 out of 5 questions
C	K3	20	1 x 20 = 20 (1000 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/ Concept Test

No end semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course offered by the Department of Economics for
B.A. / B.Sc. / B.Com. /B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2019-2020)

MONEY MATTERS

CODE: 23EC/GE/MM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To understand the concept of money and its role in the functioning of an economy
- To understand the causes and effects of inflation.
- To understand how government uses various policy instruments to correct imbalances that occur in an economy

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the role and functions of money in an economy.	K1,K2
CO2	understanding some of the monetary problems and measures to correct it.	K1, K2
CO3	analyses the causes and effects of inflation and analysis the impact of the credit control techniques of the central bank on inflation	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction of Money	K1-K3	8	1 -2
	1.1 Definition, Types and Functions of Money			
	1.2 Aggregates of money	K1-K3		1-2
	1.3 Measurement of money – Index numbers	K1-K3		1-3
	1.4 Monetary Standard- Overview	K1-K3		1-3
2	Inflation	K1- K2	9	1-2
	2.1 Inflation – Definition and Types			
	2.2 Causes, measures and Impact of inflation	K1-K3		1-2
3	Policy Instruments	K1-K2	9	
	3.1 Types of Interest Rates			1-2
	3.2 Quantitative Instruments	K1-K3		1-2
	3.3 Qualitative Instruments	K1-K3		1-2

BOOKS FOR STUDY

Sundharam, K.P.M. Money Banking Trade and Finance. New Delhi: Sultan Chand, 2004.

BOOKS FOR REFERENCE

Crowther G. An Outline of Money, Revised, London: Thomas Nelson, 1958.

Paul, R.R., Monetary Economics, New Delhi, Kalyani Publishers, 2018.

Suraj, B. Gupta. Monetary Economics, Institutions, Theory and Policy. New Delhi: S Chand, 2002. Vaish, M.C. Monetary Theory, New Delhi: Ratan Prakashan Mandir, 2004.

NEWSPAPER

Economic Times

Business Line

Financial Express

WEB RESOURCES

www.mospi.nic.in

<https://prezi.com/nqadt5-xobnq/m2-analyse-the-effects-of-fiscal-and-monetary-policies-for-a/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	15	5 x 3 = 15 (60 words each) 5 out of 7 questions
B	K2	15	3 x 5 = 15 (80 words each) 3 out of 5 questions
C	K3	20	1 x 20 = 20 (1000 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/ Concept Test

No end semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course offered by the Department of Economics for
B.A. /B.Sc. /B.Com. /B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

PUBLIC POLICY

CODE: 23EC/GE/PP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce to the exciting field of public policy and complex work of policy analysis
- To introduce key concepts, issues process and analysis of public policy
- To help analyse policies across a range of issues and cases, including several generated by students in the class

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the key concepts of public policy making	K1
CO2	comprehend the factors which influence policy making	K2
CO3	apply to varied real-life situations the concepts taught	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Nature of Public Policy	K1-K2	9	1-3
	1.1 Public Policy – Definition			
	1.2 Policy studies as a science	K1-K2		
	1.3 Brief review of the official and unofficial actors and their roles in public policy legislature, Government and Bureaucracy, Judiciary, individual, interest group, political parties and media	K1-K3		
	1.4 Case study – Normative and Empirical analysis in the Abortion Debate	K1-K3		
2	Policy making	K1-K3	8	1-3
	2.1 Brief introduction to the types of policies – Distributive policies, Regulatory policies and Redistributive policies			
	2.2 Elements of Policy Design	K1-K3		
	2.3 Case Study: Women's Reservation Bill/Right to Education Act	K1-K3		
3	Implementation and Memo Writing	K1-K3	9	1-3
	3.1 Approaches to implementation – Top Down, bottom up and synthesis – A third generation of implementation research			
	3.2 Policy failure and learning from it	K1-K3		

UNIT	CONTENT	CL	Hrs	CO
	3.3 Guidelines to memo-writing	K1-K3		
	3.4 Case Study: Analysis of the implementation and failures of the Public Distribution System	K1-K3		

BOOKS FOR STUDY

Birkland Thomas A., *An Introduction to the Policy Process: Theories, Concepts and Models of Public Policy Making*, 2nd Edition Armonk: M.E Sharpe 2005

BOOKS FOR REFERENCE

Anderson, J.E. *Public Policy – Making : An Introduction*. Boston: Houghton, 2006
 Dreze, Jean. and Amartya. Sen. *India: Development and Participation*. New Delhi: Oxford University Press, 2002.
 Dye, Thomas. *Understanding Public Policy*. Singapore: Pearson Education, 2008
 Eugene, Bardach's. *A Practical Guide for Policy Analysis: the Eightfold Path to More Effective Problem Solving* (C Q press; any edition is acceptable), Washinton.
 Kingdon. *Agendas, Alternatives and Public Policies*, 2nd updated edition, Longman, London, 2011
 Kraft and Furlong. *Public Policy: Politics, Analysis and Alternatives*, 4th edition, Sage Publications, 2013.
 Stella Z. Theodoulou and Matthew. A. Cahn, eds. *Public Policy: The Essential Readings*. New York: Prentice Hall, 1995.

WEB RESOURCES

[http://www.untagsmd.ac.id/files/Perpustakaan_Digital_2/PUBLIC%20POLICY%20\(Public%20Administration%20and%20public%20policy%20125\)%20Handbook%20of%20Public%20Policy%20Analysis%20Th.pdf](http://www.untagsmd.ac.id/files/Perpustakaan_Digital_2/PUBLIC%20POLICY%20(Public%20Administration%20and%20public%20policy%20125)%20Handbook%20of%20Public%20Policy%20Analysis%20Th.pdf)
<https://www.worldscientific.com/series/wslnep>
https://niilmuniversity.in/coursepack/humanities/Public_Policy.pdf

JOURNALS

International Journal of Public Policy
 Public Policy and Administration

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	15	5 x 3 = 15 (60 words each) 5 out of 7 questions
B	K2	15	3 x 5 = 15 (80 words each) 3 out of 5 questions
C	K3	20	1 x 20 = 20 (1000 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/ Concept Test

No end semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of Economics for
B.A. /B.Sc. /B.Com. /B.V. A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

WOMEN AND WORK

CODE:23EC/GE/WW22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To introduce students to various concepts of gender and gender development models and present an overview of issues related to women and economy.
- To analyse the economic and non-economic contribution of women to the economy.
- Enable students to analyse the existing public policies through gender lens and draft policy suggestions to promote a gender inclusive society.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

CO	DESCRIPTION	CL
CO1	enable the students to analyse the Women's role in the economy.	K1
CO2	identify the various forms of challenges faced by women in the family, at work and in the society.	K2
CO3	empower students conduct research on issues related to women and become inclusive policy makers.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENTS	CL	HRS	CO
1	Introduction to Women and Economy 1.1 Gender, Patriarchy, Feminism	K1, K2	6	1 - 3
	1.2 Development Models: WID, WAD and GAD	K1 - K3		
	1.3 Gender Analysis	K1 - K3		
	1.4 Gender and violence	K1 - K3		
2	Women and Work 2.1 Definition of work paid and unpaid work	K1, K2	10	1 - 3
	2.2 Invisibility of women	K1 - K3		
	2.3 Gender Stereotypes Feminisation of work	K1 - K3		
	2.4 Glass Ceiling	K1 - K3		

UNIT	CONTENTS	CL	HRS	CO
3	Policy Issues			
	3.1 Health and Education	K1 - K3	10	1 - 3
	3.2 Gender Budgeting	K1 - K3		
	3.3 Micro Finance and SHG	K1 - K3		
	3.4 Role of State and NGOs	K1 - K3		

BOOKS FOR STUDY

Poonacha, Veena. *Understanding Women s Studies*. Mumbai: RCWS, SNDT University, 1999.

BOOKS FOR REFERENCE

Bhasin, Kamala. *Patriarchy*. New Delhi: Kali for Women, 1991.

Bhasin, Kamala. *Feminism*. New Delhi: Kali for Women, 1991.

Geetha, V. *Gender*. Kolkata: StreeSamya, 2002.

John, Florence, (ed.). *Gender Matters*. Chennai: Semmoodhai, 2013.

JOURNALS

Gender Perspective on International Development

Gender & Development

Feminist Economics

WEB RESOURCES

<https://www.imf.org/en/Topics/Gender>

<https://genderdata.worldbank.org/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	15	5 x 3 = 15 (60 words each) 5 out of 7 questions
B	K2	15	3 x 5 = 15 (80 words each) 3 out of 5 questions
C	K3	20	1 x 20 = 20 (1000 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/ Concept Test

No end semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**General Elective Course offered by the Department of Economics for
B.A. /B.Sc. /B.Com. /B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 -2024)

ECOFEMINISM

CODE:23EC/GE/EF2

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To introduce the meaning and relevance of Ecofeminism
- To understand the interdependence of the environment, women and the economy
- To explore the connections between ecofeminism, environmental ethics and ecology

COURSE LEARNING OUTCOMES

On Successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall issues pertaining to environment and women	K1
CO 2	demonstrate an understanding of the linkages between environment, economy and women	K2
CO 3	compare and contrast ecofeminism with other feminist and environmental ideologies	K3

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Concepts in Economics and Environmental Economics	K1, K2	6	1 – 3
	1.1 Meaning of Ecofeminism – Ecofeminism vs Environmentalism			
	1.2 Meaning of Economics – Defining Economic Development and Economic Growth	K1,K2, K3		
	1.3 Economics and the Environment	K3,K4		
2	Introductory concepts of Women's Studies and Role of Women in the Economy	K1	11	1-3
	2.1 Defining and Conceptualizing – Patriarchy, Feminism , Sexism			
	2.2 Gender – Meaning, Concepts, Definition	K1		
	2.3 Gender Stereotypes – Gender biased hierarchical dualism ; Men/Women, Nature / Nurture, Nature/ Culture, Outside/Inside	K1-K2		
	2.4 Development vs Anti- Development	K3		
	2.5 Impact of globalization on Women – Impoverishment of the Environment – Women and Environment	K3		

UNIT	CONTENT	CL	HRS	CO
3	Ecofeminism and Deep Ecology	K1	9	1 - 3
	3.1 The Myth of Catching up Development Model – Maria Mies			
	3.2 Deep vs Shallow Ecology – Arie Naess	K2		
	3.3 Gaia – The revenge of Gaia – Relationship between Growth and Gaia	K2		
	3.4 The need for a new vision – An Ecologically sound, non – exploitative, self – sustaining society	K3		

BOOKS FOR REFERENCE

Agarwal, Bina. Capabilities, Freedom and Equality: Amartya Sen's Work from a Gender Perspective ed. London: Asia Cambridge University Press, 2006.

Bhasin, Kamala. Patriarchy. New Delhi: Kali for Women., 1991.

Bhasin, Kamala. Feminism. New Delhi: Kali for Women, 1991.

John, Florence, (ed.) Gender Matter. Chennai: Semmoodhai, 2013.

Mies, M & Vandana Shiva. Eco feminism, London: Zed Books, 1989.

Shiva, V. Staying Alive. New Delhi: Kali for Women, 1988.

JOURNALS

European American Journal

WEB RESOURCES

http://uaf.edu.pk/faculties/social_sci/courses/gender_and_development/09.pdf

http://www.uvm.edu/rsenr/nr6/Readings/Warren_ecofeminism_article.pdf

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	15	5 x 3 = 15 (60 words each) 5 out of 7 questions
B	K2	15	3 x 5 = 15 (80 words each) 3 out of 5 questions
C	K3	20	1 x 20 = 20 (1000 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Assignment/Seminar/Quiz/Group Discussion/Article Review/ Concept Test\

No end semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

MANAGERIAL ECONOMICS

CODE:23EC/UI/MG23

CREDITS:3

OBJECTIVES OF THE COURSE

- To understand the basic concepts and equip them with tools to analyze economic quantities
- To impart the use of evaluative and forecasting techniques

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Understand the economic goals of the firms and optimal decision making
- To understand the challenges faced by managers
- To understand the critical role played by managers in decision making
- Enable students to apply theory to solve issues related to decision making of the firm with the help of analytical/statistical tools
- Knowledge of evaluated and forecasting techniques

Unit 1

Introduction and Demand Analysis

- 1.1 Nature, meaning and scope of managerial economics
- 1.2 Decision making and the role of a managerial economist
- 1.3 Demand Distinctions
- 1.4 Demand Forecasting
- 1.5 Problems and case studies

Unit 2

Cost Decisions and Profit Planning

- 2.1 Cost Concepts
- 2.2 Cost output relationship
- 2.3 Cost control and cost reduction
- 2.4 Profit planning and Break even analysis
- 2.5 Problems and case study

Unit 3

Pricing and Market Promotion

- 3.1 Objectives of pricing
- 3.2 Pricing Practices – Cost Oriented pricing. Competition oriented pricing and Pricing based on other economic consideration
- 3.3 Peak load pricing and Pricing over the life cycle of a product

Unit 4

Linear Programming

- 4.1 Linear programming: Applications and Assumptions
- 4.2 Constrained Profit Maximization and Constrained Cost minimization – Structuring the problem, the feasible region, graphic and algebraic solution
- 4.3 Special problems in Linear Programming – Multiple Solutions, redundant constraints with no feasible solution
- 4.4 The Dual Problem – Structuring the Dual problem, solving the dual problem
- 4.5 Problems and case study

Unit 5

Capital Budgeting

- 5.1 Cost of Capital
- 5.2 Investment evaluation – Project Appraisal methods
- 5.3 Capital Rationing
- 5.4 Problems and Case Study

BOOKS FOR STUDY

Dean, Joel. *Managerial Economics*. New Delhi: Prentice Hall of India, 1951.
Mehta, P.L. *Business and Management Economics*. New Delhi: Sultan Chand, 1996.
Petersen, H. Craig and Lewis, W. Chris. *Managerial Economics*. New Delhi: Prentice Hall of India, 1995.
Varshney, R.L and Maheswari, K.L. *Managerial Economics*. New Delhi: Sultan Chand, 1996.

BOOKS FOR REFERENCE

Ibrahim I.B, Seo K.K and Vlachos P.G. *Readings in Managerial Economics*. Winston: Holt Rinehart, 1971.
Julian, Simon L. *Applied Managerial Economics*. New Jersey: Prentice, 1975
Spencer, Milton H. *Managerial Economics – Text Problems and Short Cases*, USA: Richard Irwin, 1968.

JOURNALS

Journal of Managerial Economics
Managerial and Decision Economics

WEB RESOURCES

<http://www.saylor.org/site/textbooks/Principles%20of%20Managerial%20Economics.pdf>
<http://financephd.typepad.com/files/managerial-economics-lecture-notes.pdf>

PATTERN OF ASSESSMENT

End-Semester Examination: **Total Marks: 100** **Duration: 3 hours**

Section A – 10 x 2 = 20 marks (Answer any 10 out of 12 questions in 50 words each)

Section B – 5 x 8 = 40 marks (Answer any 5 out of 8 questions in 400 words each)

Section C – 2 x 20 = 40 marks (Answer any 2 out of 4 questions in 1000 words each)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600086

B.A. DEGREE: BRANCH IV – ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

NOBEL LAUREATES IN ECONOMICS

CODE:23EC/UI/NL23

CREDITS:3

OBJECTIVES OF THE COURSE

- To provide a deeper understanding of the contributions made by select Economists in the field of economic theory and policy
- To facilitate a better comprehension of the relevance of the contributions of select Nobel Laureates, Women Economists and Indian Economists to the current economic issues

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Will enable the students to survey the discipline of economics through the lens of these eminent scholar's contributions and their applications
- explore the building blocks on which today's economics stands
- learn a great deal of intellectual history
- Provide knowledge about the contribution made by the following noble laureates
- Appreciate the relevance of their contribution in the context of the current scenario

Unit 1

Amartya Sen

- 1.1 Work for which Nobel Prize was awarded
- 1.2 Analysis
- 1.3 Relevance of the work to the current economic scenario

Unit 2

George Akerlof

- 2.1 Work for which Nobel Prize was awarded
- 2.2 Analysis
- 2.3 Relevance of the work to the current economic scenario

Unit 3

John Nash

- 3.1 Work for which Nobel Prize was awarded
- 3.2 Analysis
- 3.3 Relevance of the work to the current economic scenario

Unit 4

Paul Krugman

- 4.1 Work for which Nobel Prize was awarded
- 4.2 Analysis
- 4.3 Relevance of the work to the current economic scenario

Unit 5

Ronald Coase

5.1 Work for which Nobel Prize was awarded

5.2 Analysis

5.3 Relevance of the work to the current economic scenario

BOOKS FOR REFERENCE

Akerlof, George A & Yellen. Janet. *Efficiency Wage Models of the Labor Market*, Orlando: Academic Press, 1986.

Brue, Stanley L & Grant. Randy. R. *The Evolution of Economic Thought*, 8th Ed., Ohio: South Western, 2013.

Boudreaux Donald. J. *The Coase Theorem and Strategic Bargaining in (ed)3 (Advances in Austrian Economics, Vol.3)*, Emerald Group Publishing, 1996.

Fudenberg, Drew & Tirole. Jean. *Game Theory*. Cambridge: MIT Press, 1991. Krugman,

Paul R. Elhanan, Helpman, *Market Structure and Foreign Trade: Increasing Returns, Imperfect Competition and the International Economy*, Cambridge: MIT Press, 1985.

Krugman Paul R. *Rethinking International Trade*. Cambridge: MIT Press, 1990.

Lindbeck Assar (ed.). *Nobel Lectures in Economic Sciences 1969-1980*, London: World Scientific, 1992.

Maler Karl-Goram (ed.). *Nobel Lectures in Economic Sciences 1981-1990*, London: World Scientific, 1992.

Myerson Roger. B. *Game Theory- Analysis of Conflict*, Harvard University Press, 1997

Puttaswamaiah. *Nobel Economists, Vol. 2 1975-85*. New Delhi: Indus Publishing, 1995. Amartya

Sen. *Choice, Welfare and Measurement*. Basil Blackwell Oxford, 1982

WEB RESOURCE

www.nobelprize.org

PATTERN OF ASSESSMENT

End-Semester Examination: **Total Marks: 100** **Duration: 3 hours** Section

A – 10 x 2 = 20 marks (Answer any 10 out of 12 questions in 50 words each)

Section B – 5 x 8 = 40 marks (Answer any 5 out of 8 questions in 400 words each)

Section C – 2 x 20 = 40 marks (Answer any 2 out of 4 questions in 1000 words each)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.A. DEGREE
Branch XII ENGLISH
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH

PROGRAMME DESCRIPTION

The Bachelor's Programme in English is designed to acquaint students with a range of literatures written in, or translated into, English from across the world. The first two semesters of study train students to identify and appreciate the genres and subgenres of literature. These introductory courses also equip students to analyse and interpret texts with reference to the features, devices and techniques unique to each genre/subgenre. The programme then moves on to courses aimed at introducing students to various schools of thought and critical/theoretical movements. These give students a conceptual grounding and equip them with tools for analysis and interpretation. These courses are also designed to sensitise students to issues pertaining to marginalisation and plurality through an engagement with literary texts and to encourage them to question dominant narratives. They also prepare students to engage with literatures from various regions of the world: the focus of the courses in the last three semesters of the programme. The courses in the last three semesters build, in students, an awareness of social, cultural, economic and political conditions, specific to the regions, that are intertwined with the process of literary production. The programme is also designed with the twin objectives of nurturing creativity and imparting skills leading to employability in areas such as education and journalism.

VISION OF THE DEPARTMENT

To encourage students to evolve into sensitive, independent individuals and agents of social change through the study of literatures from across different regions.

MISSION OF THE DEPARTMENT

- To impart language and communication skills through participatory learning in order to aid employability
- To encourage problem solving and critical thinking in students
- To explore newer areas of research across regions in English Studies
- To equip students with knowledge and critical thinking skills which will aid them in questioning dominant narratives in English Studies so that they become agents of social change and help
- To continually update our programme to be contemporaneous and inclusive
- To respond sensitively to marginalised discourses in literature and culture

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.A. English Programme, the students will be able to

PSO 1	identify and explain generic features of different texts from around the world and demonstrate an understanding of reading/ writing methods.
PSO 2	engage critically with texts/ contexts/ theories/ concepts from around the world.
PSO 3	use the skills acquired to respond to real-life situations.
PSO 4	understand and respond to the relationships between texts/ concepts and different subject positions.
PSO 5	sensitively engage with interactions between language/ literature, and socio-political/ economic/ ecological/ cultural/ ethnic/ linguistic contexts.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.A. English 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	3	4	3	4	3	4	5	6	5	6	5	6	24	30
Major Core	3	4	5	6	4	5	4	5	5	6	5	6	26	32
											5	6	5	6
											5	6	5	6
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5	5	5			10	10
Int. Dis. Core									5	6			5	6
											Total		95	110
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library		1		1		1		1		2			0	6
Mentoring		1		1						1		1	0	4
											Total		4	12
Total	25	30	25	30	25	30	25	30	24	30	25	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: BRANCH XII - ENGLISH

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23EL/MC/PR13	Prose	3	3	1	0	3	50	50	100
23EL/MC/PT13	Poetry	3	3	1	0	3	50	50	100
23EL/AC/LG15	Introduction to Linguistics	5	5	0	0	3	50	50	100
23EL/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23EL/SS/HC13	Life Skills:Health,Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
SEMESTER-II									
23EL/MC/DR23	Drama	3	3	1	0	3	50	50	100
23EL/MC/IL25	Indian Literatures – I	5	5	1	0	3	50	50	100
23EL/AC/SW25	Subaltern Writing	5	5	0	0	3	50	50	100
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23EL/MC/FN33	Fiction	3	3	1	0	3	50	50	100
23EL/MC/LC34	Literary Criticism – I	4	4	1	0	3	50	50	100
23EL/AC/LI35	Literature and Ideas	5	5	0	0	3	50	50	100
23EL/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23EL/MC/LC44	Literary Criticism – II	4	4	1	0	3	50	50	100
23EL/MC/IL45	Indian Literatures – II	5	5	1	0	3	50	50	100
23EL/AC/GD45	Literature and Gender	5	5	0	0	3	50	50	100
	Major Elective I								
SEMESTER-V									
23EL/MC/ES55	Literature of East and South Asia	5	5	1	0	3	50	50	100
23EL/MC/BL55	Literature of the British Isles: Sixteenth Century and After	5	5	1	0	3	50	50	100
	Major Elective II								
	General Elective III								
	SAP / SL								
Interdisciplinary Core (EL and FA) to students of English									
23ID/IC/WA55	Writing and Art for Picture Books	5	3	0	3	-	50	50	100
Interdisciplinary Core (EL and FA) to students of Visual Arts									
23ID/IC/CA55	Colonial Art and Literature	5	5	1	0	3	50	50	100
SEMESTER-VI									
23EL/MC/AL65	American Literature	5	5	1	0	3	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: BRANCH XII - ENGLISH

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23EL/MC/CA65	Literatures of Australia, Canada and New Zealand	5	5	1	0	3	50	50	100
23EL/MC/AC65	African and Carribean Literatures	5	5	1	0	3	50	50	100
23EL/MC/WA65	West Asian Literature	5	5	1	0	3	50	50	100
23VE/SS/HL63	Life Skills: An Approach to a Holistic Way of Li	3	3	0	0	-	50	-	100
	General Elective IV								
Major Electives									
23EL/ME/LT45	English Language Teaching	5	5	0	0	3	50	50	100
23EL/ME/CW45	Introduction to Children's Literature	5	5	0	0	-	50	50	100
23EL/ME/JW45	Journalistic Writing	5	5	0	0	-	50	50	100
23EL/ME/TW45	Travel Writing	5	5	0	0	-	50	50	100
23EL/ME/LF45	Literature and Food	5	5	0	0	-	50	50	100
23EL/ME/PR45	Project	5	0	0	5	-	50	50	100
General Electives									
23EL/GE/FF22	Fiction and Film	2	2	0	0	-	50	-	100
23EL/GE/GN22	The Graphic Novel	2	2	0	0	-	50	-	100
23EL/GE/TS22	Basic Theatre Skills	2	2	0	0		50	-	100
23EL/GE/PC22	Popular Culture	2	2	0	0	-	50	-	100
23EL/GE/EA22	English for Advertising	2	2	0	0	-	50	-	100
23EL/GE/EE22	English for Competitive Examinations	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23EL/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23EL/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23EL/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23EL/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23EL/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23EL/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23EL/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23EL/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23EL/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Electives									
23EL/UI/CM23	Novel of Courtship and Marriage	3	0	0	0	3	-	100	100
23EL/UI/PR23	Poetry of the Romantic Age	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

PROSE

CODE: 23EL/MC/PR13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To train students to critically analyse prose texts
- To acquaint students with different subgenres of prose writing
- To train students to identify features, techniques and devices in different sub-genres of prose writing
- To train students in reading for ideas
- To hone academic writing skills in students

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify themes, rhetorical devices and generic features of prose.	K1
CO2	relate themes, rhetorical devices and generic features to the prescribed texts.	K2
CO3	apply features and concepts discussed to the texts.	K3
CO4	critically examine the use of techniques and devices in the prescribed texts.	K4
CO5	evaluate prose texts with reference to techniques, devices and formal elements and formulate critical responses.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Essays 1.1 Kinds of Essays 1.2 Joseph Addison: Ladies' Headdresses 1.3 Sam Roberts: Celebrating The Semicolon in a Most Unlikely Location, <i>The New York Times</i> , 18 Feb. 2008 1.4 Ramchandra Guha: The Locality and the Nation, <i>The Hindu</i> , <i>Sunday Magazine</i> , 31 August 2003 1.5 George Mikes: Tea	K1-K6	15	1-5
2	<u>Speeches and Letters</u> 2.1 Features of Speeches and Letters 2.2 Abraham Lincoln: The Gettysburg Address 2.3 J. K. Rowling: Commencement Address at Harvard University, June 2008 2.4 Charles Dickens: Letter to his Wife	K1-K6	8	1-5

UNIT	CONTENT	CL	Hrs	CO
3	<u>Life Writing</u> 3.1 Introduction to Biography, Autobiography, Memoirs, Diaries 3.2 Rajmohan Gandhi: <i>The Good Boatman</i> (pp 179-187) 3.3 Maya Angelou: <i>I Know Why the Caged Bird Sings</i> , Chapters 1-5 3.4 Temsula Ao: Evening College; A New Identity from <i>Once Upon a Life: Burnt Curry and Bloody Rags, Part III</i>	K1-K6	9	1-5
4	<u>Travel Writing</u> 4.1 Kinds of Travel Writing and their features 4.2 Pico Iyer: Falling off the Map (Bhutan) 4.3 Hugh and Colleen Gantzer: Lapland Tales: Saga of the Shaman's Stone, <i>The Hindu</i> , 21 Feb 2015	K1-K6	12	1-5
5	<u>Practical Application Tasks</u> Essay: Organisation; Beginning, Emphasis, Transition, Ending	K5,K6	8	5

BOOKS FOR REFERENCE

Cooley, Thomas. *The Norton Sampler*. W W Norton & Co., 2005.
 Gandhi, M.K. *The Story of My Experiments with Truth*. Om Books International. 2012.
 Jamison, Leslie. *The Best American Essays 2017*. Houghton Mifflin, 2017.
 Obama, Barack. *Dreams from my Father: A Story of Race and Inheritance*. Cannongate Books, 2016.
 Shelston, Alan. *Biography*. Routledge, 2018.
 Walker, Hugh. *The English Essays and Essayists*. Creative Media Partners. 2022.
 Winkler, Antony C and Jo Ray McCuen-Metherell. *Readings for Writers*. Cengage Learning, 2015.

JOURNALS

Prose Studies

WEB RESOURCES

<http://www.grammarcheck.net/how-write-essay-like-pros/>
http://www.bucks.edu/media/bcccmcdialibrary/pdf/howtowritealiteraryanalysisessay_10.15.07_001.pdf

ONLINE COURSES

<https://www.udemy.com/course/travel-writing-class/>
<https://www.udemy.com/course/writing-for-beginners/>

PATTERN OF ASSESSMENT

Unit 5 not for testing.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage given from a text on the syllabus

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work
 – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions in Section D should be based on a passage given from a text on the syllabus

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/PR13												
I	Course Title: PROSE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 2	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 3	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 4	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 5	3	2	2	3	2	2	2	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

POETRY

CODE:23EL/MC/PT13

CREDITS:3

L T P: 3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To enable students to read poetry with reference to form and context
- To acquaint students with different subgenres of poetry
- To train students to identify features, techniques and devices in different sub-genres of poetry
- To train students to identify features related to poetic forms and issues related to contexts
- To train students to critically appreciate a variety of poems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define poetic forms, techniques and devices.	K1
CO2	relate poetic forms, devices and techniques to poems.	K2
CO3	apply literary concepts pertaining to poetry, with regard to canonical and contemporary poetry.	K3
CO4	examine the use of techniques and devices in poetry.	K4
CO5	evaluate poems with reference to techniques, devices and formal elements and formulate critical responses to poems.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Poetic Forms and Devices</u> 1.1 The Sonnet - William Shakespeare: Sonnet 18 1.2 The Ode - John Keats: Ode to a Nightingale 1.3 The Elegy - Walt Whitman: O Captain, My Captain 1.4 The Lyric - Robert Burns: A Red, Red Rose 1.5 The Dramatic Monologue - Robert Browning: My Last Duchess 1.6 Song Lyrics - John Lennon: Imagine 1.7 Simile	K1-K4	20	1-4

UNIT	CONTENT	CL	Hrs	CO
	1.8 Metaphor 1.9 Image 1.10 Symbol 1.11 Synecdoche 1.12 Metonymy			
2	<u>Poetry of the British Isles</u> 2.1 John Donne: A Valediction of Weeping 2.2 Seamus Heaney: Digging 2.3 Jackie Kay: In My Country	K1-K6	8	1-5
3	<u>American Poetry</u> 3.1 Maya Angelou: Phenomenal Woman 3.2 T.S. Eliot: Preludes 3.3 William Carlos Williams: The Red Wheelbarrow	K1-K6	8	1-5
4	<u>Postcolonial Poetry</u> 4.1 Derek Walcott: A Far Cry from Africa 4.2 Wole Soyinka: Telephone Conversation 4.3 Anita Heiss: The Colours of Aboriginality	K1-K6	8	1-5
5	<u>Practical Application Tasks</u> Analysis of poems not prescribed on the syllabus	K5,K6	8	5

BOOKS FOR REFERENCE

Eagleton, Terry. *How to Read a Poem*. Blackwell Publishing Ltd., 2007.
 Erdrich, Heid. E. *New Poets of Native Nations*. Greywolf Press, 2018.
 Heaney, Seamus. *Collected Poems: 1988-2013*. Farrar, Straus and Giroux. 2014.
 Matterson, Stephen and Darryl Jones. *Studying Poetry*. OUP, 2000.
 Hurley, Michael D and Michael O'Neill. *The Cambridge Introduction to Poetic Form*. Cambridge University Press, 2012.
 Perkins, David. *Modern American Poetry 1945-2000 - An Introduction*. Blackwell Publishers, 2006.
 Thwaite, Anthony. *Poetry Today: A Critical Guide to British Poetry 1960-1995*. Longman Inc., 1996.

JOURNALS

Journal of Commonwealth Literature
ARIEL: A Review of International English Literature (online)
Wasafiri
Postcolonial Studies

WEB RESOURCES

www.poets.org
www.poetryfoundation.org
www.literarydevices.org
[http://criticalflame.org/\(online\)](http://criticalflame.org/(online))
[https://www.aprweb.org/\(online\)](https://www.aprweb.org/(online))

RECOMMENDED ONLINE COURSES

<https://www.coursera.org/learn/modpo>
<https://www.coursera.org/learn/modern-american-poetry>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:**Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions at the K6 level should be based on a passage given from a text outside the syllabus.

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work
– Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions at the K6 level should be based on a passage given from a text outside the syllabus

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/PT13												
	Course Title: POETRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	3	3	3	3	2	3	3
CO 2	3	3	2	3	3	2	3	3	3	3	2	3	3
CO 3	3	3	3	3	3	2	3	3	3	3	2	3	3
CO 4	3	3	2	3	3	2	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

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B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO LINGUISTICS

CODE:23EL/AC/LG15

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the fundamental concepts of linguistics
- To inculcate in students a scientific approach to language
- To equip them with tools to analyse linguistic units
- To acquaint them with different schools of linguistics
- To introduce them to the relationship between language, culture and society

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and label phonemes, morphemes and sentence patterns.	K1
CO2	understand and illustrate the issues related to the structure and functioning of language.	K2
CO3	apply concepts related to the structure of words and sentences.	K3
CO4	analyse sounds and identify their patterns in the English language; examine language, society and culture, and language variations such as social, regional and historical dialects.	K4
CO5	compare and contrast Language in terms of systematic differences in phonetics, phonology, morphology, syntax and semantics; discuss the socio-cultural variables that impact the production of the varieties of English.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Language as Communication</u> 1.1 Characteristics of Human Language 1.2 Human Language as a Signifying System - Saussure: Langue and Parole, Syntagm and Paradigm, Arbitrary Nature of Sign, Linear Nature of the Signifier 1.3 Varieties of Language – Dialect, Idiolect, Register	K1-K6	15	1-5
2	<u>Phonology</u> 2.1 Segmental Phonemes 2.2 Cardinal Vowel Scale 2.3 Classification of Vowels and Consonants in English	K1-K6	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.4 Supra-Segmental Features 2.5 Word and Sentence Stress 2.6 Intonation			
3	<u>Morphology</u> 3.1 Morphemes 3.2 Bound and Free Morphemes 3.3 Derivatives – Root and Affix 3.4 Zero and Empty Morph	K1-K6	10	1- 6
4	<u>Grammar</u> 4.1 Traditional Grammar 4.2 Five Basic Sentence Patterns 4.3 IC Analysis	K1-K6	15	1-5
5	<u>Semantics</u> 5.1 Synonymy, Antonymy, Polysemy 5.2 Hyponymy and Homonymy	K2-K6	10	2-5

BOOKS FOR REFERENCE

Balasubramanian, T. *A Text Book of English Phonetics for Indian Students*. Macmillan India Ltd., 2012.

Crystal, David. *The Cambridge Encyclopaedia of the English Language* Cambridge UP, 2018.

Lee, EunHee. *An Introduction to Lexical Semantics: A Formal Approach to Word Meaning and Its Composition*. Routledge, Taylor & Francis Group, 2023.

Yule, George. *The Study of Language – An Introduction*. Oxford UP, 2022.

Linguistic Diversity and Social Justice: An Introduction to Applied Sociolinguistics. Oxford UP, 2016. Pullum, Geoffrey K. *Linguistics: Why it Matters*. Wiley, 2018

JOURNALS

Journal of Linguistics

English Language and Linguistics

International Journal of Applied Linguistics

WEB RESOURCES

<https://linguistlist.org/>

<http://www.everytongue.com/>

<http://web.uvic.ca/ling/data/IPAlab/IPAlab.htm>

<https://www.linguisticsociety.org/what-linguistics>

RECOMMENDED ONLINE COURSES

https://onlinecourses.nptel.ac.in/noc23_hs87/preview

https://onlinecourses.nptel.ac.in/noc22_hs85/preview

<https://www.coursera.org/learn/human-language>

PATTERN OF ASSESSMENT

No Unit should be left out.

Alternative questions to be set for students with special needs in Section A and Section C. (Transcription, Three Term Labels, IPA symbols, Labelling vowels and IC analysis to be excluded)

Continuous Assessment:**Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 (Three term Labels) CA 1 5x1=5 (IPA symbols for the given Three Term Labels) CA 2 5x1=5 (Labelling vowels and plotting on the Vowel Chart) CA 2
B	K2	10	5x2=10 (Locate the primary stress in the given words) CA 1 5x2=10 (Sentence Pattern - Classify) CA 2
C	K3	10	5x2=10 (Transcription) CA 1 10x1=10 (morphemic analysis) CA 2
	K4	10	2x5=10 (2 out of 3 questions, 75 words) CA 1 4x2.5=10 (IC Analysis of sentences) CA 2
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work
– Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours****No Unit should be left out.**

Alternative questions to be set for students with special needs in Section A and Section C. (Transcription, Three Term Labels, IPA symbols, Labelling vowels and IC analysis to be excluded)

Section	Cognitive Level	Marks	Pattern
A	K1	20	10x1=10 (Three term Labels) 5x1=5 (IPA symbols for the given TTL) 5x1=5 (Labelling vowels and plotting on the Vowel Chart)
B	K2	20	5x2=10 (Sentence Pattern - Classify) 5x2=10 (Locate the primary stress in the given words)
C	K3	20	5x2=10 (Transcription) 10x1=10 (morphemic analysis)
	K4	20	4x2.5=10 (IC Analysis of sentences) 2x5=10 (2 out of 3 questions, 75 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/AC/LG15												
	Course Title: INTRODUCTION TO LINGUISTICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	1	2	2	1	1	2	2	2	2	1	2
CO 2	2	2	3	2	2	2	3	3	2	2	2	1	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	3
CO 4	2	2	2	3	2	2	3	3	2	2	2	2	3
CO 5	2	3	2	2	3	3	3	3	2	2	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23EL/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies; Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-energy resources: renewable and non-renewable sources, impact of over-exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and *ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects and control measures -Impact of over-population on pollution and health – carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations Sustainable Development Goals of the 2030 Agenda
- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3**(6 Hours)**

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component:

Total Marks: 25

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23EL/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2

(13 Hours)

Food and energy balance

2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food

2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food

2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 (13 Hours)

3.1 Energy conservation

- 3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation -Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant
- 3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

- 3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing
- 3.2.2 **Configuring Email**
Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails
- 3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group discussions
Group presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

DRAMA

CODE:23EL/MC/DR23

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To introduce drama as a social product and a literary form
- To introduce students to the formal aspects of drama
- To familiarise students with the characteristics of the sub-genres of drama
- To facilitate a close reading of plays
- To train students to use concepts and techniques in the critical analysis of drama

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define various dramatic forms, techniques and devices.	K1
CO2	relate dramatic forms and techniques to plays.	K2
CO3	apply literary concepts pertaining to drama to canonical as well as contemporary plays.	K3
CO4	examine the use of techniques and devices in plays.	K4
CO5	evaluate plays with reference to techniques, devices and formal elements and formulate critical responses.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Aspects of Drama</u> 1.1 Plot 1.2 Characterisation 1.3 Setting 1.4 Structure 1.5 The Unities	K1-K4	7	1-4
2	<u>Types of Drama</u> 2.1 Comedy 2.2 Tragedy 2.3 Tragicomedy	K1-K4	7	1-4
3	Shakespeare: <i>As You Like it</i>	K1-K6	10	1-5
4	Bertolt Brecht: <i>The Caucasian Chalk Circle</i>	K1-K6	20	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts related to Drama	K5, K6	8	5

BOOKS FOR REFERENCE

Van Es, Bart. *Shakespeare's Comedies: A Very Short Introduction.*, OUP, 2016.
Ellis-Fermor, Una. *The Frontiers of Drama.* Routledge, 2013.
Esslin, Martin. *Theatre of the Absurd.* Vintage, 2004.
Bentley, Eric. *Bentley on Brecht.* Northwestern University Press, 2008
Leech, Clifford. *Tragedy: The Critical Idiom.* Routledge, 2017.
Leggatt, Alexander. *The Cambridge Companion to Shakespearean Comedy.* Cambridge University Press, 2001.
Merchant, Moelwyn. *Comedy: The Critical Idiom Series.* Routledge, 2017.
Wiles, David. *Shakespeare's Clown: Actor and Text in the Elizabethan Playhouse.* CUP, 2005.
Williams, Raymond. "Introduction.," *Drama from Ibsen to Eliot.* Chatto and Windus, 1952, pp 11–38.

WEB RESOURCES

www.dramaonlinelibrary.com
www.writers theatre.org.

ONLINE COURSES

Introduction to Drama <https://nptel.ac.in/courses/109106054>
Shakespeare on the Page and in Performance <https://www.mooc-list.com/course/shakespeare-page-and-performance-young-love-edx>

PATTERN OF ASSESSMENT

Other Components: **Total Marks: 50**

No Unit should be left out.

Continuous Assessment: **Total Marks: 50** **Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage given from a text on the syllabus

Other Components**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions in Section D should be based on a passage given from a text prescribed on the syllabus

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/DR23												
	Course Title: DRAMA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 2	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 3	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 4	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 5	3	2	2	3	2	2	2	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

INDIAN LITERATURES - I

CODE: 23EL/MC/IL25

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To introduce students to Indian Literatures written in various languages from the classical age to the pre-independence era
- To introduce students to various genres of literature from different regions across India
- To trace the interrogation of tradition from classical to the pre-independence era in Indian Literatures
- To introduce students to some aesthetic and critical traditions of India
- To enable students to understand the multiplicity of historical, social, cultural and political milieu of India as reflected in literature

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COS	DESCRIPTION	CL
CO1	define aspects of historical, social, religious and cultural milieu of India and relate them to the prescribed texts.	K1
CO2	outline the features of various genres of Indian Literatures.	K2
CO3	identify changes in literary trends from classical to the pre-independence era in Indian Literatures.	K3
CO4	examine theories and concepts of Indian aesthetics and critically engage with various genres of Indian Literatures.	K4
CO5	critically evaluate and discuss polyphonic discourses in Indian Literatures.	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Indian Aesthetics and Thought</u> 1.1. A.K. Ramanujan: Afterword to <i>Poems of Love and War</i> (231-269) 1.2. Arundhati Subramaniam: Introduction to <i>Eating God: A Book of Bhakti Poetry</i>	K1- K6	15	1-5
2	<u>Upto the 6th Century AD</u> 2.1. A.K. Ramanujan: Flowering Tree (from <i>The Flowering Tree and Other Oral Tales from India</i>) 2.2. Bhasa: <i>Urubhangam</i> 2.3. Sangam Poetry 2.3.1. Akam: Kuruntokai: 25. Only a thief was there Narrinai, 179. If a calving cow 2.3.2. Puram: Purananuru: 69. Dear Singer, 235. If he found a little liquor (from A. K. Ramanujan. <i>Poems of Love and War</i>) 2.4. Charles Hallissey (trans.): <i>Therigatha</i> : Punna or Punnika, Ambapali	K1- K6	15	1-5
3	<u>7th Century to 18th Century</u> 3.1. Bulle Shah: I have been pierced by the arrow of love, what shall I do? 3.2. Chokhamela: They thrash me Vithu 3.3. Soyra Bai: You say some bodies (from <i>Eating God. A Book of Bhakti Poetry</i> , pp 49) 3.4. Meera Bai: These eyes: like... (from <i>Three Bhakti Voices</i> , pp 112-113) 3.5. Devara Dasimayya: Poem 120 from <i>Speaking of Siva</i> 3.6. Ramprasad Sen: What a Joke. (from <i>Singing to the Goddess: Poems to Kali and Uma from Bengal</i> , pp 22-23) 3.7. Babur: Description of Kabul (from <i>Baburnama</i> , pp 199-207)	K1- K6	15	1-5
4	<u>19th Century to 1947</u> 4.1. Toru Dutt: The Tree of Life 4.2. Chandu Menon: <i>Indulekha</i> (Trans. Anitha Bevasia) 4.3. Rabindranath Tagore: The Child 4.4. Munshi Premchand: Wife into Husband (from <i>Oxford India Premchand</i>) 4.5. Ammani Ammal: Expectation and the Event (from <i>The Tamil Short Story Through the Times, Through the Tides</i> , pp 1-4)	K1- K6	20	1-5
5	<u>Practical Application Tasks</u> Passage analysis based on concepts discussed in the syllabus	K5- K6	13	5

BOOKS FOR REFERENCE

Afterword. *The Flowering Tree and Other Oral Tales from India*. Ed. Stuart Blackburn and Alan Dundes. Penguin Books, 1997.

Bhat, G.K. "Two plays of Tragic Design and Tragic Intent," *Tragedy and Sanskrit Drama*. Bhandarkar Oriental Institute, 1976.

Hallisey, Charles. Introduction. *Therigatha: Poems of the First Buddhist Women*. Murthy Classical Library, 2015.

Devy G. N. *The G N Devy Reader*. Orient Longman, 2009.

Naik, M K. *A History of Indian Literature*. Sahitya Akademi, 2005. Print.

Pollock, Sheldon I. *A Rasa Reader: Classical Indian Aesthetics*. Columbia University Press, 2018.

Ramanujan A.K. Afterword. *Poems of Love and War*. Oxford University Press. 2006

JOURNALS

Indian Literature Kavya Bharathi The Little Magazine
The Journal of Commonwealth Literature Literary Criterion

WEB RESOURCES

www.sawnet.com
www.ntm.org.in
www.indianruminations.com
cctindia.gov.in/literaryarts.php

ONLINE COURSES

An Introduction to Indian Literary Theory https://onlinecourses.nptel.ac.in/noc22_hs135

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/IL25												
	Course Title: INDIAN LITERATURES - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 2	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 3	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 5	2	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

SUBALTERN WRITING

CODE: 23EL/AC/SW25

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the concept of subalternity
- To help them position subaltern identities in texts
- To sensitise students to experiences of marginalisation
- To enable students to critically analyse literary texts with reference to subalternity
- To extend their understanding of the issues discussed through the texts to the real world

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define subalternity and concepts related to marginalisation.	K1
CO2	interpret the causes and consequences of oppression.	K2
CO3	identify and organise literary texts into the categories of subalternity.	K3
CO4	analyse texts using concepts and theories of subalternity.	K 4
CO5	evaluate real world experiences using the framework of subalternity and develop a sensitive approach towards the marginalised sections of the society.	K5, K6
CL – Cognitive Level K1–Remember K2–Understand K3–Apply K4–Analyse K5–Evaluate K6–Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Subalternity: Definition and Concepts</u> 1.1 Paulo Freire: Preface (from <i>Pedagogy of the Oppressed</i>) 1.2 Frantz Fanon: On Violence (from <i>The Wretched of the Earth</i> , pp 1-13)	K1-K6	20	1-5
2	<u>Film Script</u> 2.1 Saeed Akhtar Mirza: The First Lady and the Terrorist: A Film Script in Five Acts (from <i>Ammi: Letter to a Democratic Mother</i> pp. 50-307)	K1-K6	15	1-5
3	<u>Fiction</u> 3.1 Maheswata Devi: Kunti and the Nishadin (from <i>After Kurukshetra</i>)	K1-K6	10	1-5
4	<u>Poetry</u> 4.1 Nellie Wong: When I was Growing Up 4.2 Cherrie Moraga: The Welder 4.3 S. Sukirtharani: A Faint Smell of Meat	K1-K6	15	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts related to subalternity	K5, K6	5	5

BOOKS FOR REFERENCE

- Moraga, Cherrie and Gloria Anzaldua. *This Bridge Called My Back: Writing by Radical Women of Color*. SUNY Press, 2015, pp. 5-6.
- Moraga, Cherrie and Gloria Anzaldua. *This Bridge Called My Back: Writing by Radical Women of Color*. SUNY Press, 2015, pp. 219-220.
- Fanon, Frantz. *Black Skin, White Mask*. Grove, 2008.
- Gail Omvedt "Chapter 11: Sita's Curse and Shambuk's Silence." *Dalit Visions* : Orient Longman, 2006.
- Gramsci, Antonio. "History of the Subaltern Classes", *Prison Notebooks Vol. II*, Ed. & Tr. Joseph A. Buttigieg, Columbia University Press, 2011, 24-25.
- Milner, Andrew and Jeff Browitt. *Race and Ethnicity in Black and Latino Cultural Studies: Contemporary Critical Theory*. III Ed. Rawat, 2003.
- Nilsen, Alf Gunvald and Srila Roy, eds. *New Subaltern Politics. Reconceptualizing Hegemony and Resistance in Contemporary India*. OUP, 2015.
- Spivak, Gayatri Chakrabarti. "Subaltern Studies: Deconstructing Historiography". Ed. Ranajit Guha, *Writings on South Asian History and Society* Vol IV. OUP, 1985, pp 330- 363.

WEB RESOURCES

<https://www.ijert.org/>
<https://journal.culanth.org/>

ONLINE COURSES

Race, gender and Culture <https://www.coursera.org/learn/race-gender-and-culture>
Understanding Violence <https://www.coursera.org/learn/violence>
Indian Society: Sociological Perspectives https://onlinecourses.nptel.ac.in/noc23_hs78/

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:		Total Marks: 50	Duration: 90 minutes
Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage given from a text on the syllabus

Other Components: Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/AC/SW25												
	Course Title: SUBALTERN WRITING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 2	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 3	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A./ B.S.W. / B.V.A. /B.C.A Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking	K1-K6	13	1-5

	2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills			
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:

Continuous Assessment:

Two Classroom Tasks

Total Marks:50

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster- making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

FICTION

CODE:23EL/MC/FN33

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To help students identify and analyse the generic aspects of fiction
- To train students to identify the changes in form and narrative techniques from the eighteenth to the twentieth centuries
- Identify, interpret, and compare and contrast specific leitmotifs and character types of different subgenres of fiction
- To train students to trace the evolution of the subgenres of fiction
- To train students to identify characteristic features of the subgenres of fiction

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define forms, techniques and devices in different subgenres and trace the development of fiction with reference to political, cultural and literary movements	K1
CO2	relate fictional forms and techniques to short stories and novels	K2
CO3	apply literary concepts pertaining to fiction, with reference to canonical and contemporary texts	K3
CO4	examine the use of technique and style in fiction and survey fiction from various regions	K4
CO5	evaluate texts with reference to the techniques, devices and formal elements and formulate critical responses to texts	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to Fiction</u> 1.1 Aspects of the Novel: Plot, Characterisation, Point of View / Focalisation, Theme 1.2 Sub-genres of the Novel: The Epistolary Novel, The Picaresque Novel, The Gothic Novel, The Historical Novel, The Bildungsroman 1.3 Features of the Short Story	K1-K4 K1-K5 K1-K4	10	1-4 1-5 1-4

UNIT	CONTENT	CL	Hrs	CO
2	<u>Novel</u> 2.1 Jane Austen: <i>Pride and Prejudice</i>	K1-K6	12	1-5
3	<u>Novel</u> 3.1 John Fowles: <i>The French Lieutenant's Woman</i>	K1-K6	12	1-5
4	<u>The Short Story</u> 4.1 Anton Chekov: Vanka 4.2 Virginia Woolf: A Mark on the Wall 4.3 William Faulkner: A Rose for Emily 4.4 Haruki Murakami: The Shinagawa Monkey	K1-K6	10	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts related to Fiction	K5, K6	8	5

BOOKS FOR REFERENCE

Brantlinger, Patrick and William Thesing, eds. *A Companion to the Victorian Novel*. Wiley-Blackwell, 2005.

Correa, Delia Da Sousa, ed. *The Nineteenth Century Novel*. Routledge, 2000.

David, Deirdre. *The Cambridge Companion to the Victorian Novel*. Cambridge University Press, 2012.

Eagleton, Terry. *The English Novel: An Introduction*. Blackwell Publishing, 2005.

Forster, E.M. *Aspects of the Novel*. Penguin, 2005. (Chapters II, III, IV, V.)

Hale, Dorothy J., ed. *The Novel: An Anthology of Criticism and Theory: 1900-2000*. Wiley-Blackwell, 2005.

Hutcheon, Linda. "Historiographic Metafiction" *Metafiction*, ed. Mark Currie. Longman, 1995.

Kettle, Arnold. *An Introduction to the English Novel*. Hutchinson and Co., 2015.

Lodge, David. *The Art of Fiction*. Vintage Books, 2011.

Matthews, Steven, ed. *Modernism: A Source Book*. Palgrave Macmillan, 2009.

Matz, Jesse. *The Modern Novel: A Short Introduction*. Wiley-Blackwell, 2004.

Nicholls, Peter. *Modernisms: A Literary Guide*. Palgrave Macmillan, 1995.

Patea, Viorica. *Short Story Theories. A Twenty-First-Century Perspective*. Brill, 2015.

Waugh, Patricia. *Metafiction: The Theory and Practice of Self-Conscious Fiction*. Routledge, 2002.

JOURNALS

Modern Fiction Studies. John Hopkins University

Novel: A Forum on Fiction. John Hopkins University

WEB RESOURCES

Schorer, Mark. "Technique as Discovery". *The Hudson Review*. Vol. 1, No. 1 (Spring, 1948), pp. 67-87. <<http://www.jstor.org/stable/3847209>>

Edmiston, William F. "Focalization and the First-Person Narrator: A Revision of the Theory Poetics Today." Vol. 10, No. 4 (Winter, 1989), pp. 729-744, Duke University Press. <<https://www.jstor.org/stable/1772808>>

ONLINE COURSES

Twentieth Century Fiction <https://nptel.ac.in/courses/109106172>

Narrative Mode and Fiction https://onlinecourses.nptel.ac.in/noc23_hs61/preview

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage given from Units 2 and 3

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions in Section D should be based on a passage given from Units 2 and 3

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/FN33												
	Course Title: FICTION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	2	3	2	3	3	2	3	3
CO 3	3	3	2	3	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

LITERARY CRITICISM - I

CODE: 23EL/MC/LC34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To identify key orientations in schools of literary criticism
- To understand the key concepts and texts of literary criticism.
- To understand the development of modern criticism and theory
- To trace the evolution of theories of authorship
- To apply theoretical concepts and techniques to literary texts

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define concepts from different schools of literary criticism	K1
CO2	outline and compare the foundational principles of different schools of literary criticism	K2
CO3	apply concepts of criticism to interpretation of literary texts	K3
CO4	analyse critical and interpretive practices	K4
CO5	evaluate the strengths and limitations of various principles of criticism and formulate critical responses to texts	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to Literary Criticism</u> Mimetic, Pragmatic, Expressive and Objective Orientations	K1-K5	10	1-5
2	<u>Classical Criticism</u> 2.1 Plato: <i>Ion</i> 2.2 Aristotle: <i>Poetics</i> Chapters 1,2,4,5,6,7,8 2.3 Sophocles: <i>Oedipus Rex</i>	K1-K6	15	1-5
3	<u>Elizabethan and Neoclassical Criticism</u> 3.1 Philip Sidney: Extract from <i>Apology for Poetry</i> from V.S. Sethuraman : Among the Romans ...to teach and delight. (46 –49) 3.2 Samuel Johnson: Extracts from <i>Preface to Shakespeare</i> from V.S. Sethuraman : Nothing can please many ...progress of the passion. (247 –249)	K1-K6	15	1-5
4	<u>Romantic, Victorian and Modern Criticism</u> 4.1 Samuel Coleridge: <i>Biographia Literaria</i> Chapter XIII (section on Fancy and Imagination), Chapter XIV (The poet in ideal Perfection) 4.2 Matthew Arnold: The Study of Poetry (Indeed there can be no more useful help...from his substance and matter) 4.3 T.S Eliot: Tradition and Individual Talent	K1-K6	15	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying relevant critical concepts	K5, K6	10	5

BOOKS FOR REFERENCE

Habib, M.A.R. *A History of Literary Criticism and Theory: From Plato to the Present*. Wiley-Blackwell, 2005.
Holland, Owen and Piero. *Introducing Literary Criticism: A Graphic Guide*. Icon Books. 2016.
Robinson, Dave. *Introducing Plato: A Graphic Guide*. Icon Books, 2011.
Wimsatt, William and Cleanth Brooks. *Literary Criticism: A Short History*. Knopf, 1964.
Woodfin, Rupert and Judy Groves. *Introducing Aristotle: A Graphic Guide*. Icon Books, 2012.

JOURNALS

Poetics. Elsevier
Narrative. University of Ohio Press
Criterion: A Journal of Literary Criticism. Birmingham Young University

WEB RESOURCES

<https://www.britannica.com/art/literary-criticism>
<https://plato.stanford.edu/>
<https://plato.stanford.edu/entries/aristotle-aesthetics/>
<https://www.jstor.org/stable/20875614>

ONLINE COURSES

Literary Theory and Literary Criticism

https://onlinecourses.nptel.ac.in/noc22_hs94/preview#:~:text=ABOUT%20THE%20COURSE%3A,gender%20studies%20and%20Eco%20criticism.

Introduction to Literary Theory <https://www.mooc-list.com/course/introduction-literary-theory-saylororg>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work/ Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/LC34												
	Course Title: LITERARY CRITICISM – I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	1	2	2	2	2	3	3	3	2	3	3
CO 2	3	3	1	2	2	2	2	3	3	3	2	3	3
CO 3	3	3	1	2	2	2	2	3	3	3	2	3	3
CO 4	3	3	1	2	2	2	2	3	3	3	2	3	3
CO 5	2	3	1	2	2	2	2	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

LITERATURE AND IDEAS

CODE: 23EL/AC/LI35

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with the major schools of thought that have impacted literature
- To enable students to make connections between concepts from various schools of philosophy
- To guide students to an understanding of the major shifts in schools of thought
- To train students to analyse literary texts using these ideas as frames of reference
- To provide students with a critical understanding of real life using concepts from major schools of thought

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the concepts of major schools of thought and relate them to their appropriate contexts	K1
CO2	compare and contrast the relationship between different schools of thought	K2
CO3	identify the major philosophical concepts in literary texts	K3
CO4	critically analyse literary texts using these concepts	K4
CO5	interpret literary texts and develop a critique of real life using these concepts	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Romanticism</u> 1.1 Immanuel Kant: Critique of Pure Reason - a priori, a posteriori, Analytic, Synthetic, Noumena, Phenomena and Transcendental Deduction of Knowledge 1.2 G.W.F. Hegel: Phenomenology of the Mind - Absolute Consciousness, Totality, Negation, Hegelian Triad, Self-Consciousness, Master- Slave Dialectic Text: William Wordsworth: <i>The Prelude Book I</i> (Lines: 147-249)	K1-6	14	1-5
2	<u>Marxism and Psychoanalysis</u> 2.1 Freud and Jung: Id, Ego and Superego; Collective Unconscious 2.2 Karl Marx: Base and Superstructure Text: Charles Dickens: <i>Hard Times</i> (Chapters 1-5) Sylvia Plath: 'Mirror'	K1-6	13	1-5
3	<u>Existentialism</u> 3.1 Schopenhauer: The World as Will 3.2 Nietzsche: Apollonian and Dionysian Principles 3.3 Sartre: Awful Freedom Texts: Ted Hughes: Tiger Psalm Franz Kafka: <i>Metamorphosis</i>	K1-6	15	1-5
4	<u>Feminist Thought</u> 4.1 Toril Moi: Feminine, Feminist, Female 4.2 bell hooks: Black Women - Shaping Feminist Theory Text: Makbula Manzoor: On the Road (from <i>Galpa: Short Stories by Women from Bangladesh</i>)	K1-6	13	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts discussed in the syllabus	K5-6	10	5

BOOKS FOR REFERENCE

Bhandari, D. R. *History of European Political Philosophy*. Bangalore Printing and Publishing, 1994.
Beauvoir, Simone De. *The Second Sex*. Vintage Books, 1949.
Coplestone, F. A *History of Philosophy*. Burn and Odes, 1959.
Durant, Will. *The Story of Philosophy*. Simon and Schuster, 1926.
Howells, Christina, ed. *The Cambridge Companion to Sartre*. Cambridge UP, 1992.
Lavine, T.S. *From Socrates to Sartre: The Philosophical Quest*. Bantam Books, 1984.
Millet, Kate. *Sexual Politics*. Doubleday, 1970.
Russell, Bertrand. *History of Western Philosophy*. Unwin, 1979.
Zima, V., Peter. *Subjectivity and Identity: Between Modernity and Postmodernity*. Bloomsbury, 2015.

WEB RESOURCES

<https://plato.stanford.edu/>
<https://www.jmu.edu/philrel/student-resources/philosophy/links-to-philosophy-websites.shtml>
<https://iep.utm.edu/>
https://www.youtube.com/watch?v=BweGI6TK5pQ&list=PLg4IEYaHO--SDCgjDUP1nQbn3_Fztv4LK&index=8

ONLINE COURSES

Introduction to Philosophy <https://www.coursera.org/learn/philosophy>
Moral Foundations of Politics <https://www.coursera.org/learn/moral-politics>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage not prescribed on the syllabus

Other Components: Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions in Section D should be based on a passage not prescribed on the syllabus

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/AC/LI35												
	Course Title: LITERATURE AND IDEAS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	3	3	3	3	3	3
CO 2	3	3	3	3	2	2	2	3	3	3	3	3	3
CO 3	3	3	3	3	2	2	2	3	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE: 23EL/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. *Constitutional Development and National Movement of India*. S. Chand, 1988.
- Ahuja Ram. *Social Problems in India*. Rawat Publications. 3rd Edition, 2014
- Allan, R. *Modern Politics and Government*. Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. *Positive Psychology*. Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology: A Practical Guide*. Icon Books Ltd, 2012.
- Pandey, J.N. *Constitutional Law of India*. Central Law Agency, 2014.
- Weiner, M. *The Indian Paradox*. Sage, 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components Task based classroom activities
Case studies/ Group discussions/ Group presentation/ Role play

No End Semester Examination

No CA test.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

LITERARY CRITICISM – II

CODE: 23EL/MC/LC44

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To acquaint students with the development of modern criticism and theory
- To train them to identify concepts from various schools of criticism
- To train them to respond to texts using critical and theoretical frameworks
- To introduce them to the interrelationship between different schools of criticism
- To train them to apply the concepts in the analysis of texts

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define concepts related to various schools of literary criticism	K1
CO2	compare the foundational principles of different schools of criticism	K2
CO3	identify critical frameworks to interpret texts	K3
CO4	analyse literary texts using relevant critical concepts	K4
CO5	review critical concepts, discuss strategies of literary analyses and formulate critical responses to literary texts	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Cleanth Brooks: Keats' Sylvan Historian 1.2 I.A. Richards: Four Kinds of Meaning	K1-K6	15	1-5
2	2.1 Tzvetan Todorov: The Typology of Detective Fiction 2.2 Roland Barthes: Myth as a Semiological System [For mythology ...it imposes it on us (from <i>Mythologies</i>)] 2.3 M.H. Abrams: How to do Things with Texts	K1-K6	20	1-5
3	3.1 Stanley Fish: Is There a Text in This Class?	K1-K6	10	1-5
4	4.1 Arne Naess and George Sessions: The Basic Principles of Deep Ecology	K1-K6	10	1-5

UNIT	CONTENT	CL	Hrs	CO
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts discussed in the syllabus	K5, K6	10	5

BOOKS FOR REFERENCE

Barthes, Roland. *Mythologies*. Trans. Annette Lavers. Farrar, Straus & Giroux, 2013.
 Guerin Wilfred et al. *A Handbook of Critical Approaches to Literature*. 5th Ed. Oxford UP, 2005.
 Habib, M.A.R. *A History of Literary Criticism and Theory: From Plato to the Present*. Wiley-Blackwell, 2005.
 Lodge, David and Nigel Wood. *Modern Criticism & Theory*. 3rd Ed. Taylor & Francis, 2014.
 Naess, Arne. *The Ecology of Wisdom: Writings by Arne Naess*. Penguin Books Ltd, 2016.
 Selden and Widdowson. *Contemporary Critical Theory*. 5th Ed. The UP of Kentucky, 2005.
 Selden, Raman. *The Theory of Criticism: From Plato to the Present: A Reader*. Routledge, 2017.

JOURNALS

Poetics
PMLA

WEB RESOURCES

<https://www.mooc-list.com/course/introduction-literary-theory-saylororg>
https://onlinecourses.nptel.ac.in/noc20_hs82/preview

ONLINE COURSES

Introduction to Biology: Ecology, Evolution, and Biodiversity Specialization
<https://in.coursera.org/specializations/introduction-to-biology>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage outside the syllabus

Other Components: Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions in Section D should be based on a passage outside the syllabus

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/LC44												
	Course Title: LITERARY CRITICISM – II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	3	3	3	3
CO 2	3	3	2	2	3	2	3	3	3	3	3	3	3
CO 3	3	3	2	2	3	2	3	3	3	3	3	3	3
CO 4	3	3	2	2	3	2	3	3	3	3	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

INDIAN LITERATURES - II

CODE:23EL/MC/IL45

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To introduce various genres of post-independence Indian Literatures.
- To introduce students to polyphonic discourses from different regions across post-independence India
- To enable students to critically engage with Indian Literatures in various languages from independence to contemporary times.
- To enable students to understand the historical, social, cultural and political milieu of post-independent India through its literature
- To sensitise students to the plurality of voices and experiences in post-Independent India

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	relate post-independence Indian Literatures to important historical, social, cultural and political developments that influenced it.	K1
CO2	outline various genres of post-independence Indian Literatures.	K2
CO3	identify polyphonic discourses in post-independence Indian Literatures.	K3
CO4	examine similarities and differences among the polyphonic discourses in Indian Literatures from the period.	K4
CO5	appraise and formulate responses to Indian Literatures written in various languages from Independence to contemporary times.	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Indian Thought and Aesthetics</u> 1.1 Sharankumar Limbale :Dalit Literature and Aesthetics (from <i>Towards an Aesthetic of Dalit Literature History, Controversies, and Considerations</i> pp 103-121) 1.2 A K Ramanujan: Is there an Indian Way of Thinking? (Sections III - V) 1.3 Ranjit Hoskote:Reasons for Belonging	K1-K5	13	1-5
2	<u>1947 to 1980</u> 2.1 R K Narayan: Fifteen Years 2.2 Nissim Ezekiel: 'Background, Casually' 2.3 Jayaprabha: 'Burn this Sari' (from <i>The Oxford Anthology of Modern Indian Poetry</i> , ed. Vinay Dharwadkar and A K Ramanujan.)	K1-K6	13	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.4 Kamala Das : ‘The Old Playhouse’ 2.5 Sujatha Bhatt : ‘The Stare’			
3	<u>1980 to 2000</u> 3.1 Kaifi Azmi: ‘Snake’ 3.2 Indira Goswami: Under the Shadow of Kamakhya 3.3 Amrita Pritam : ‘The Annunciation’ (from Selected Poems of Amrita Pritam) 3.4 Na Muthuswamy: Man in the Chair (from <i>Four Tamil Plays</i>) 3.5 Urvashi Butalia : Honour (from <i>The Other Side of Silence</i>)	K1-K6	20	1-5
4	<u>2000 to the Present</u> 4.1 Amitav Ghosh: <i>The Shadow Lines</i> 4.2 Monalisa Changkija : ‘Of a People Unanswered’ (from Anthology of Contemporary Poetry from the Northeast) 4.4 Arun Kolatkar : ‘Jaratkaru Speaks to her Son’ (from <i>Sarpa Satra</i> pp 27-36) 4.5 Mahesh Dattani : <i>Tara</i>	K1-K6	22	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts discussed in the syllabus	K1-K6	10	1-5

BOOKS FOR REFERENCE

Bruce King, *Modern Indian Poetry in English*. Rev ed, Oxford UP, 2005.

Ciocca, Rossella et al. *Indian Literature and the World: Multilingualism, Translation, and the Public Sphere*. Palgrave Macmillan, 2017.

de Souza, Eunice. *Talking Poems: Conversations with Poets*. Oxford UP, 1999.

Devy G N. *The G N Devy Reader*. Orient Longman, 2009.

Kakkar, Sudhir and Katharina Kakkar. *The Indians: Portrait of a People*. Penguin, 2007.

Mehrotra, Arvind Krishna, ed. *An Illustrated History of Indian Literature in English*. Permanent Black, 2003.

Mukherjee, Meenakshi. *The Twice-Born Fiction: Themes and Techniques of the Indian Novel in English*. Pencraft International, 2001.

Naik, M K. *A History of Indian Literature*. Sahitya Akademi, 2005.

Radha Ramaswamy, “Towards a Multicultural Theatre: Mahesh Dattani and the Changing Audience for Contemporary Indian Drama in English,” *Mahesh Dattani’s Plays: Critical Perspectives*. Ed. Angelie Multani, Pencraft International, 2007.

Ranjit Hoskote. Introduction. *Reasons for Belonging: Fourteen Contemporary Indian Poets*. Ed. Hoskote, Penguin, 2004.

Vinay Dharwadker, “Afterword: Modern Indian Poetry and its contexts,” *The Oxford Anthology of Modern Indian Poetry*. OUP, 2008.

JOURNALS

Indian Literature Kavya Bharathi The Little Magazine
The Journal of Commonwealth Literature Literary Criterion
Indian Journal of English Studies

WEB RESOURCES

www.sawnet.com www.ntm.org.in
www.indianruminations.com
www.ccertindia.gov.in/literaryarts.php

ONLINE COURSES

Short fiction in Indian Literature https://onlinecourses.nptel.ac.in/noc19_hs48/preview
Indian Fiction in English <https://archive.nptel.ac.in/courses/109/106/109106135/>
Introduction to Modern Indian Writing in Translation
<https://archive.nptel.ac.in/courses/109/106/1091061>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/IL45												
	Course Title: INDIAN LITERATURES – II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	3	3	2	3	3	3	3
CO 2	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 3	3	3	3	3	2	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	2	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

LITERATURE AND GENDER

CODE: 23EL/AC/GD45

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable students to trace and understand the history of women's movements
- To enable students to explore literary texts with reference to gender relations and gendered ways of thinking
- To help students understand construction and perpetuation of gender in society
- To enable students to use critical concepts and theoretical frameworks to analyse literary texts and extend this understanding to real life contexts
- To help students to adapt tools to formulate critical responses to representation of gender in texts, media and real life contexts

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recall significant contributions in the history of women's movements	K1
CO2	explain the intersectionality of race, class, caste, ethnicity, religion, sexuality, ability and gender	K2
CO3	apply appropriate concepts and critical frameworks for a gendered reading of canonical texts and contemporary literature	K3
CO4	examine the construction of gender in other media and real life contexts sensitively	K4
CO5	adapt tools to formulate critical responses to textual and real life contexts	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction</u> 1.1 Virginia Woolf : Chapters 1 & 5 from <i>A Room of One's Own</i> 1.2 Mary E. John : from <i>Feminism, Internationalism and the West: Question from the Indian Context</i> (pg 15-24)	K1-K6	10	1-5

UNIT	CONTENT	CL	Hrs	CO
2	<u>Poetry and Fiction</u> 2.1 Adrienne Rich : Snapshots of a Daughter-in-law 2.2 Grace Nichols : The Fat Black Woman Goes Shopping 2.3 Shashi Deshpande : <i>Small Remedies</i>	K1-K6	15	1-5
3	<u>Autobiography</u> 3.1 Revathi : <i>Truth About My Life</i>	K1-K6	12	1-5
4	<u>Drama</u> 4.1 Caryl Churchill : <i>Top Girls</i>	K1-K6	13	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts related to gender	K5, K6	15	5

BOOKS FOR REFERENCE

Bhasin, Kamla. *Understanding Gender*. Kali for Women, 2000.

Bhuthalia, Urvashi. "Confrontation and Negotiation: The Women's Movement's Response to Violence Against Women," *The Politics of Gender, Identity and Social Equality in India*. Kali for Women, 2002. pp. 207-33.

Cann, Victoria. *Girls Like This, Boys Like That: Understanding the (Re)Production of Gender in Contemporary Youth Cultures*. I.B Tauris, 2018.

Foran, John. "Alternatives to Development: Of Love, Dreams and Revolution," *Feminist Futures: Reimagining Women Culture and Development*. Ed. Kumkum Bhavnani, John Foran and Priya Kurian, Zubaan, 2003. pp. 268-274.

Mackinnon, Catherine. "Towards a Feminist theory of State" *Feminisms*. Ed. Sandra Kemp and Judith Squires. Oxford University Press, 2009.

Mies, Maria and Vandana Shiva. *Ecofeminism*. Zed Books, 2014.

Rich, Adrienne. "When We Dead Awaken: Writing as Re-vision." *Adrienne Rich's Poetry*, Ed. Barbara Charles and Albert Gelpi, Norton, 2018

Sen, Amartya. "Gender and Co-operative Conflicts." *Capabilities, Freedom and Equality*, Ed. Bina Agarwal, Jane Humphries and Ingrid Robeyns, 2006, pp. 458-84.

JOURNALS

Indian Journal of Gender Studies (Sage)
A Journal of Feminist Cultural Studies Feminist Review
A Journal of Women Studies

WEB RESOURCES

<http://www.feministreview.org/>
<http://ftv.sagepub.com>
<http://dukeupress.edu/cameraobscura>

ONLINE COURSES

Gender and Literature <https://nptel.ac.in/courses/109103122>
Contextualising Gender <https://nptel.ac.in/courses/109107191>
Feminism and Social Justice <https://www.coursera.org/learn/feminism-social-justice>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage given from a text on the syllabus

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/AC/GD45												
	Course Title: LITERATURE AND GENDER												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	2	3	3	3	3	3	3	3
CO 2	3	2	3	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	2	2	3	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH XII- ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

LITERATURES OF EAST AND SOUTH ASIA

CODE:23EL/MC/ES55

CREDITS:5

L T P: 5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To introduce students to a selection of literatures from the East Asian and South Asian region
- To train students to explore the similarities and differences across literatures and cultures in this region
- To equip students with the analytical tools to deconstruct the geo-political contexts of the region through literature
- To help them engage with issues related to the interplay of gender, caste, class, religion and politics
- To sensitise students to the writing that emerges from conflict zones

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	locate literatures of the East and South Asian region in their historical, socio-political and cultural contexts.	K1
CO2	relate literary texts to social realities of the regions.	K2
CO3	articulate a critical understanding of representative texts from these regions.	K3
CO4	compare representative texts from these regions addressing the universal and unique factors of social reality and cultural traditions exemplified in other media of representation as well.	K4
CO5	interpret and propose new ways of dialogue across cultures with sensitivity and critical appreciation.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Pakistan, Afghanistan & Tibet</u> 1.1 Sadat Hasan Manto : Khol Do 1.2 Khaled Hosseini : <i>The Kite Runner</i> 1.3 Tenzin Tsundue : Refugee	K1-K6	25	1-5
2	<u>Bangladesh, Myanmar & Vietnam</u> 2.1. Khaleda Salahuddin : Relief Camp 2.2 Khin Myo Chit : Her Infinite Variety 2.3 Tran Khac : An Altar for Young Gion	K1-K6	10	1-5
3	<u>Sri Lanka, Malaysia & Indonesia</u> 3.1 Shanmugalingam : Land of our Parents 3.2 Muhammad Haji Salleh : The Teller of Tales 3.3 Titis Basino : Her	K1-K6	20	1-5
4	<u>China, Japan & Korea</u> 4.1 Xue Mo : Old Man Xingjang 4.2 An Su-Gil : The Green Chrysanthemum 4.3 Anonymous : Hagoromo (The Feather Mantle) (from Nō Plays ed. & trans.Royall Tyler)	K1-K6	13	1-5
5	<u>Practical Application Tasks</u> Writings from countries from the region not represented in the syllabus	K5-K6	10	5

BOOKS FOR REFERENCE

Bhasin, Kamala, et al. *Against All Odds*. Kali for Women, 1994.

Bhuthalia, Urvashi. *The Other Side of Silence*. Penguin, 2000.

de Silva, K. M. "Language, Ethnicity and Politics in South Asia". *Ethnic Studies Report*. Vol. XIV No.1, January 1996. International Centre for Ethnic Studies, 1996. pp. 1-10.

Goonasekere, Savitri, ed. *Violence, Law and Women's Rights in South Asia*. Sage Publications, 2004.

Hasan, Mushirul. *Inventing Boundaries*. Oxford University Press, 2002. Print.

Nongkynrih, Kynpham Sing and Ngangom, Robin S. ed. *Anthology of Contemporary Poetry from the North East*. NEHU Publications, 2003.

Riaz, Ali. *Religion and Politics in South Asia*. Routledge, 2021.

Shamsie, Muneza, ed. *And the World Changed*. Women Unlimited, 2005.

Shanmugalingam. *Three Plays*. Trans. S. Pathmanathan. Kumaran Book House, 2007.

Tickell, Alex. editor. *South-Asian Fiction in English: Contemporary Transformations*. Springer, 2016.

Trivedi, Harish. "South Asian Literature: Reflections in a Confluence." *Indian Literature*. pp. 186-194.

Wijesinha Rajiva, ed. *Bridging Connections: An Anthology of Sri Lankan Short Stories*. National Book Trust, 2007.

Zaman, Niaz and Azim, Fidous. *Galpa: Short Stories by Women from Bangladesh*. Ed. Stanza, 2007.

WEB RESOURCES

<https://www.asianstudies.org/asia-now/>

<http://www.inter-asia.org/>

ONLINE COURSES

Sino-Japanese Interactions Through Rare Books <https://www.futurelearn.com/courses/japanese-rare-books-sino>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage given from a text on the syllabus

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions in Section D should be based on a passage given from a text prescribed on the syllabus

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/ES55												
	Course Title: LITERATURES OF EAST AND SOUTH ASIA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 2	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 3	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	2	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH XII- ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

LITERATURE OF THE BRITISH ISLES: SIXTEENTH CENTURY AND AFTER

CODE: 23EL/MC/BL55

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To introduce students to the various movements in the British literary tradition
- To equip students with the critical and to engage with the British literary tradition
- To enable students to analyse the literatures of the British Isles as an outcome of its traditions and cultures
- To train them to interpret and interrogate texts with respect to the socio-cultural and political background of the times
- To introduce students to the complexities of literary production in the context of the changing socio-political milieu of Britain

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recall significant literary trends during the period.	K1
CO2	demonstrate an understanding of the trajectory of literature of the British Isles.	K2
CO3	identify the diverse socio-cultural aspects and multiplicities of expression in literature of the British Isles.	K3
CO4	examine literature of the British Isles as an outcome of its traditions and cultures and critically analyse the dynamics of narratives in the context of the changing socio-political milieu of Britain.	K4
CO5	formulate critical responses and evaluate literary texts with respect to the socio-cultural and political background.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Sixteenth and Seventeenth Centuries</u> 1.1 Philip Sidney: Sonnet 1 1.2 Francis Bacon: Of Friendship 1.3 Andrew Marvell: To his Coy Mistress	K1-K6	10	1-5
2	<u>Eighteenth Century</u> 2.1 Alexander Pope: <i>The Rape of the Lock</i> , Canto I 2.2 William Blake: The Chimney Sweeper (From Songs of Experience)	K1-K6	23	1-5

UNIT	CONTENT	CL	Hrs	CO
3	<u>Nineteenth Century</u> 3.1 William Wordsworth: Upon Westminster Bridge 3.2 Charlotte Brontë: <i>Jane Eyre</i> 3.2 G.M. Hopkins: God's Grandeur	K1-K6	12	1-5
4	<u>Twentieth and Twenty-first Centuries</u> 4.1 J.M. Synge: <i>Riders to the Sea</i> 4.2 D.H. Lawrence: Snake 4.3 Harold Pinter: <i>The Birthday Party</i> 4.4. Maya Chowdry: Hurry Curry 4.5 Ian McEwan: <i>Atonement</i>	K1-K6	23	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages	K5-K6	10	5

BOOKS FOR REFERENCE

Alexander, Michael. *A History of English Literature*. Bloomsbury Publishing, 2017.
 Bates, Catherine. *A Companion to Renaissance Poetry*. Wiley Blackwell. 2018
 Bowra, C. M. *The Romantic Imagination*. Oxford University Press, 1999.
 Esslin, Martin. *Theatre of the Absurd*. Knopf Doubleday Publishing Group, 2004.
 Gilbert, Sandra and Susan Gubar. *Mad Woman in the Attic: The Woman Writer and the Nineteenth Century Literary Imagination*. Yale University Press, 2020.
 Lodge, David. *The Modes of Modern Writing: Metaphor, Metonymy and the Typology of Modern Literature*. Bloomsbury Publishing, 2015.
 Mathews, Greg J. *Literary Research and Irish Literature*. Scarecrow Press, 2008.
 Prince, Martin. "The Restoration and the Eighteenth Century." *The Restoration and the Eighteenth Century*. Oxford University Press, 1973.
 Ritcher, David H. *Reading the Eighteenth Century Novel*. Wiley Blackwell, 2017.
 Thwaite, Anthony. *Poetry Today: A Critical Guide to British Poetry*. Taylor & Francis, 2016.

JOURNALS

ARIEL: A Review of International English Literature
Granta
Journal of Commonwealth Literature
Journal of Victorian Culture

WEB RESOURCES

<http://www.bartleby.com/224/index.html#9>
<http://www.janeausten.org>
<http://www.poetryfoundation.org/poems&poet>
<http://criticalflame.org/>
<https://www.aprweb.org/>

ONLINE COURSES

History of English Language and Literature
<https://archive.nptel.ac.in/courses/109/106/109106124/>
 English Literature of the Romantic Period
<https://archive.nptel.ac.in/courses/109/106/109106149/>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
 Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/BL55												
	Course Title: LITERATURE OF THE BRITISH ISLES: SIXTEENTH CENTURY AND AFTER												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	2	2	2	3	3	3	2	3	3
CO 2	3	3	2	3	2	2	2	3	3	3	2	3	3
CO 3	3	3	2	3	2	2	2	3	3	3	3	3	3
CO 4	3	3	2	3	2	2	2	3	3	3	3	3	3
CO 5	3	3	2	3	2	2	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

Interdisciplinary Core Course Offered by the Departments of English and Fine Arts to the students of B.A. English Degree Programme

SYLLABUS

(Effective from the academic year 2023-2024)

WRITING AND ART FOR PICTURE BOOKS

CODE: 23ID/IC/WA55

CREDITS: 5

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce the students to theoretical concepts in the production of Picturebooks
- To help students appreciate the diversity of themes and presentation in Picturebooks
- To visualise and develop illustrations for Picturebooks
- To develop illustration skills using varied media
- To train them to produce a picture book using appropriate word choice, dialogue, narration, story structure, layout, images and colours

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define and list the various kinds of Picture Books and recall the history of Picture Book illustration	K1
CO2	classify the kinds of Picturebooks and styles of illustration using varied media and understand the dynamics of Picturebook building	K2
CO3	identify the narrative strategies and illustration techniques involved in Picturebooks and make use of them in the ideation of a Picturebook	K3
CO4	examine the impact of various writing and art techniques in select Picturebooks such as Wordless Picturebooks, Picturebooks for the differently abled and Postmodern Picturebooks	K 4
CO5	appraise and critique Picturebooks; choose and develop a strategy using effective language and art for a Picturebook; and build a Picturebook integrating illustrations and text	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to Picture Books</u> 1.1 Kinds of Picture Books : board books, concept books, novelty books, Picturebooks 1.2 History of Picture Book Illustration—an overview 1.3 Picturebooks – definition, features 1.4 Kinds of Picturebooks : Wordless Picturebooks, Picturebooks for the differently abled, Postmodern Picturebooks	K1-K3	12	1-3
2	<u>Picturebook Building</u> 2.1 Interplay of Text, Design and Illustration 2.2 Picture-Text Dynamics 2.3 Kinds of relationship between pictures and written text 2.4 Types of writing for Picturebooks : Prose and Verse, Cumulative Tales, Nonsense Verse, Metafiction	K1-K6	15	1-5
3	<u>Media Exploration and Technique</u> 3.1 Drawing Media 3.2 Painting Media 3.3 Mixed Media	K1-K3	15	1-3
4	<u>Narrative Strategies</u> 4.1 Narrative Perspectives- Verbal and Visual 4.2 Intertextuality- Verbal and Visual 4.3 Intraiconic Texts 4.4 Sylleptic Texts/ Running Stories	K1-K6	18	1-5
5	<u>Illustrating a Picturebook</u> 5.1 Character Development 5.2 Thumbnails and Concept Sketches 5.3 Composition and Layout	K1-K6	18	1-5

BOOKS FOR REFERENCE

Bossert, Jill. *Children's Book Illustration: Step by Step Techniques*. RotoVision, 1998.

Butler, Catherine, and Kimberley Reynolds, eds. *Modern Children's Literature: An Introduction*. Palgrave, 2005.

Cullingford, Cedric. *Children's literature and its Effects: The Formative Years*. Cassel, 1998.

Fliesman, Michael. *Exploring Illustration*. Thomsan Delmar Learning, 2004.

Harrison, Hazel. *The Encyclopedia of Drawing Techniques*. Search, 2004.

Haviland, Virginia, ed. *Children and Literature: Views and Reviews*. Bodley Head, 1973.

Kakar, Sudhir. *Indian Childhood: Cultural Ideals and Social Reality*. OUP, 1979.

Lewis, David. *Reading Contemporary Picturebooks: Picturing Text*. Routledge, 2001.

Nikolajeva, Maria, and Carole Scott. *How Picturebooks Work*. Routledge, 2001.

Slade, Catharine. *The Encyclopedia of Illustration Techniques*. Quarto, 1997.

JOURNALS

Bookbird: A Journal of Children's Literature
Children's Literature Association Quarterly
Horn Book Magazine

ONLINE RESOURCES

Writing for Young Readers: Opening the Treasure Chest

<https://www.coursera.org/learn/writing-for-children>

Exploring Books for Children: Words and Pictures

<https://www.open.edu/openlearn/history-the-arts/exploring-books-children-words-and-pictures/content-section-0?active-tab=description-tab>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	5	1x5=5 (1 out of 2 questions, 100 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5	10	1x10=10 (Evaluation of a picturebook, 200 words)
	K6	10	1x10=10 (Ideation of a picturebook, 200 words)

Continuous Assessment:

Total Marks: 50

Ideation and Development of Narrative (Department of English)

25 marks

Ideation and Development of Illustration (Department of Fine Arts)

25 marks

Cognitive Level	Marks
K1	5
K2	5
K3	5
K4	5
K5	10
K6	20

No End Semester Examination

End Semester Evaluation by both Course teachers:

Total Marks: 100

Creation of a Picturebook

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	Knowledge of concepts and theories related to picturebooks
K2	10	Enumerating the features of the chosen sub-genre of picturebook
K3	20	Application of techniques and strategies in art, writing and design for picturebooks
K4	20	Ideation and content of the picturebook
K5	20	Coherence and creativity
K6	20	Execution of the picturebook

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/WA55												
	Course Title: WRITING AND ART FOR PICTURE BOOKS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by the Departments of English and Fine Arts
to the students of Bachelor of Visual Arts Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

COLONIAL ART AND LITERATURE

CODE: 23ID/IC/CA55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce students to painting and architecture of colonial India
- To familiarize them with writing from and about colonial India
- To train them to critically analyse colonial literature using the framework of postcolonialism
- To highlight the significance of change in artistic styles effected by patronage in the colonial context
- To train them to examine literary and artistic productions of the colonial ethos

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define concepts related to colonialism and post colonialism with reference to literary studies and art	K1
CO2	highlight how British colonialism impacted painting, architecture and literature from India and demonstrate how Indian artists and writers engaged with issues thrown up by British colonialism	K2
CO3	demonstrate an understanding of the colonial context in the production of art and apply concepts related to colonialism and post colonialism in reading texts written by the British on India	K3
CO4	analyse art of the colonial period and texts written by the British on India	K4
CO5	justify the changes in artistic style through critiquing the colonial context; and explain the engagement between colonial/postcolonial ideology and literary texts	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction</u> 1.1 Introduction to Colonial Art and Architecture 1.1.1 East India Company 1.1.2 European Academic Naturalism 1.2 Introduction to Colonial Literature 1.2.1 Occident-Orient 1.2.2 Mimicry, Ambivalence 1.2.3 Diaspora, Identity, Belonging 1.2.4 Historiography – traditional, postmodern	K1-K4	13	1-3
2	<u>Painting the Raj</u> 2.1 Company painting 2.2 British Artists in India 2.2.1 Amateur artists: Sir Charles D'Oyly, Colin MacKenzie 2.2.2 Official and Professional artists: William Hodges, Thomas and William Daniell, Tilly Kettle, Johan Zoffany, George Chinnery 2.3 Establishment of Art Schools and Societies 2.4 Raja Ravi Varma 2.5 Bazaar art 2.5.1 Kalighat painting 2.5.2 Popular prints	K1-K5	15	1-5
3	<u>Building the Raj</u> 3.1 Colonial beginnings: Fort St George and St Mary's Church, Chennai 3.2 Indo-Saracenic Style: Victoria Terminus (Chhatrapati Shivaji Terminus) Mumbai; University Senate House, Chennai; Madras High Court, Chennai 3.3 Neo-Classical Style: Viceroy's House (Raj Bhavan), Kolkata; Victoria Memorial Hall, Kolkata; Viceroy's Palace (Rashtrapati Bhavan), New Delhi	K1-K5	20	1-5
4	<u>Writing the Raj</u> 4.1 Anna Maria: Adieu to India 4.2 Emily Eden: Up the Country (Chapter III) 4.3 George Orwell: Shooting an Elephant 4.4 Rudyard Kipling: The Ballad of the East and West	K1-K5	20	1-5
5	<u>Rewriting the Raj</u> 5.1 William Dalrymple: <i>White Mughals</i> , Chapters 1 and 2 and the photographs 5.2 Fanny Parks: <i>Begums, Thugs and White Mughals</i> , Chapter XXX ("Taj Mahal") and XXXII ("Revelations of Life in the Zenana")	K1-K5	10	1-5

BOOKS FOR REFERENCE

- Archer, Mildred. *British Drawings in the India Office Library*, 2 volumes. HMSO, 1969.
- Archer, Mildred. *Natural History Drawings in the India Office Library*, 2 volumes. HMSO, 1962.
- Ashcroft, Bill et al. *Key Concepts in Post-Colonial Studies*. Routledge, 1998.
- Chawla, Rupika. *Raja Ravi Varma: Painter of Colonial India*. Mapin, 2010.
- Clarke, Robert, editor. *The Cambridge Companion to Postcolonial Travel Writing*. Cambridge UP, 2018.
- Edwards, Justin D., and Rune Graulund, editors. *Postcolonial Travel Writing: Critical Explorations*. Palgrave Macmillan, 2011.
- Irving, Robert Grant. *Indian Summer: Lutyens, Baker and Imperial Delhi*. Yale University, 1981.
- Jain, Jyotindra. *Indian Popular Culture: The Conquest of the World as Picture*, 2nd edition, Apeejay Press, 2011.
- Kalpna, K. and Frank Schiffer. *Madras: The Architectural Heritage* (INTACH Guide). EastWest Books, 2003.
- Loomba, Ania. *Colonialism/Postcolonialism*. Routledge, 1998.
- Mehrotra, Arvind Krishna. *A History of Indian Literature in English*. Hurst & Co., 2003.
- Metcalf, Thomas, R. *An Imperial Vision: Indian Architecture and Britain's Raj*. Faber and Faber, 1989.
- Mitter, Partha. *Art and Nationalism in Colonial India, 1850-1922*. Cambridge University Press, 1994.
- Mohanty, Sachidananda, ed. *Travel Writing and the Empire*. Katha, 2003.
- Moore-Gilbert, Bart J., ed. *Writing India, 1757-1990: The Literature of British India*. Manchester U P, 1986.
- Morris, Jan, Simon Winchester. *Stones of Empire: The Buildings of the Raj*. Oxford University Press, 2005.
- Muthiah, S. *Madras Rediscovered*, 6th edition, Westland, 2008.
- Neumayer, Erwin, and Christine Schelberger. *Popular Indian Art: Raja Ravi Varma and the Printed Gods of India*. Oxford University Press, 2003.
- Neumayer, Erwin, Christine Schelberger, editors. *Raja Ravi Varma: Portrait of an Artist, The Diary of C Raja Raja Varma*. Oxford University Press, 2005.
- Said, Edward. *Orientalism*. Pantheon, 1978. Thomson, Carl. *Travel Writing*. Routledge, 2011.

ONLINE RESOURCES

<http://www.victorianweb.org>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Rubrics for Evaluation
A	K1	10	2x5 (two out of four questions, with internal choice, to answer one question each from Colonial Art and Colonial Literature,)
B	K2	10	1x10 (one out of two from Units 1.2, 4 and 5)
C	K3	10	1x10 (one out of two from Units 1.1, 2 and 3)
D	K4	10	1x10 (one out of two from Units 1.2, 4 and 5)
E	K5	10	1x10 one out of two from Units 1.1, 2 and 3)

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
 Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	15
K5	15

No End Semester Examination

A case study/ term paper on a topic combining colonial art and literature; maximum of 2000 to 2500 words (introduction to conclusion, excluding images) **100 marks**

Marks	Cognitive Level	Rubrics for Evaluation
20	K1 – K2	Introduction, methodology and presentation
40	K3 – K4	Documentation - text and images
40	K5	Research findings and analysis

**Mapping of Course Outcomes (COs)
 to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/CA55												
	Course Title: COLONIAL ART AND LITERATURE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	-	-	3	3	3	2	3	3
CO 2	3	3	3	3	3	-	-	3	3	3	2	3	3
CO 3	3	3	3	3	3	-	-	3	3	3	2	3	3
CO 4	3	3	3	3	3	-	-	3	3	3	2	3	3
CO 5	3	3	3	3	3	-	-	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

AMERICAN LITERATURE

CODE:23EL/MC/AL65

CREDITS:5

L T P: 5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To train students to identify, understand and appreciate the trajectory of the evolution of American Literature
- To introduce students to the significance of American Literature as an outcome of its traditions and cultures
- To help students understand the diverse socio-cultural aspects and multiplicities of expression in American Literature
- To equip students with the requisite technical and ideological tools to interrogate literary expressions produced by the different ethnic communities of America
- To train students to understand and deconstruct the notion of American nationhood

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	show adequate knowledge and demonstrate an understanding of the evolution of American Literature.	K1, K2
CO2	identify the diverse socio-cultural aspects and multiplicities of expression in American Literature.	K3
CO3	examine American literature as an outcome of its traditions and cultures.	K4
CO4	critically appraise the literary expressions of different ethnic communities.	K5
CO5	discuss the notion of American nationhood through a critical engagement with literary texts.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Prose</u> Emerson: <i>Self Reliance</i>	K1 - K6	10	1-5
2	<u>Poetry</u> 2.1. Robert Frost : Fire and Ice, Birches 2.2. e.e. cummings: next to of course god America 2.3. Langston Hughes: The Negro Speaks of Rivers, A Dream Deferred 2.4. Joy Harjo: Equinox 2.5. Nikki Giovanni: Nikki-Rosa 2.6. Elizabeth Bishop: The Fish	K1 - K6	20	1-5
3	<u>Drama</u> Arthur Miller : <i>Death of a Salesman</i>	K1 - K6	15	1-5
4	<u>Fiction</u> 4.1. Mark Twain: <i>The Adventures of Huckleberry Finn</i> 4.2. Hemingway : <i>The Old Man and the Sea</i> 4.3. Amy Tan : Two Kinds (from <i>The Joy Luck Club</i>)	K1 - K6	25	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying relevant concepts	K1 - K6	8	1-5

BOOKS FOR REFERENCE

Hoffman, Daniel. *Harvard Guide to Contemporary American Writing*. Harvard University Press, 2014.

Jarret, Gene Andrew. *The Wiley-Blackwell Anthology of African American Literature: Vol I and II*. Wiley Blackwell, 2014.

---. *Companion to African American Literature*. Wiley Blackwell, 2013.

Krasner, David.ed. A Companion to Twentieth-Century American Drama. Blackwell, 2008.

Miller, Arthur. "Introduction", *Collected Plays of Arthur Miller*. Allied Publishers, 1973.

Mitchell, Angeline. *The Cambridge Companion to African American Women's Literature*. Cambridge University Press, 2009.

Perkins, David. *Modern American Poetry 1945-2000 –An Introduction*. Blackwell Publishers, 2006.

Porter, Joy and Kenneth M. Roemer. *The Cambridge Companion to Native American Literature*. Cambridge University Press, 2005.

Wagner-Martin, Linda. *History of American Literature*. Wiley Blackwell, 2016.

JOURNALS

americanliterature.dukejournals.org/

afamreview.org/

nebraskapressjournals.unl.edu/journal/studies-in-american-indian-literatures/

WEB RESOURCES

wsu.edu/~campbelld/amlit/sites.htm

www.library.rochester.edu/subject/.../web-resources-americanliteratureassociation.org

lang.nagoya-u.ac.jp/~matsuoka/AmeLit-G.html

ONLINE COURSES

Modern American Poetry coursera.org/learn/modern-american-poetry

Modern and Contemporary American Poetry coursera.org/learn/modpo

The American Novel Since 1945 <https://oyc.yale.edu/english/engl-291>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components: Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/AL65												
	Course Title: AMERICAN LITERATURE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	3	3	3	3	3	3	3
CO 2	3	3	2	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	2	3	3	2	3	3	3	3	3	3	3
CO 4	3	3	2	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	2	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

LITERATURES OF AUSTRALIA, CANADA AND NEW ZEALAND

CODE:23EL/MC/CA65

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To help develop an awareness of issues—social, economic, political, and cultural—of Canada, Australia and New Zealand
- To explore modes of writing and reading that interrogate the histories and the presence of colonial influence in these postcolonial locations
- To acquaint students with discourses of racial and ethnic differences and encourage dialogue on conditions of marginality and plurality
- To examine the representation of the environment and its significance in Canadian, Australian, and New Zealand literature, exploring how authors engage with landscapes, ecologies, and the relationship between humans and nature
- To analyse the role of indigenous voices and the intersections of gender and literature in Canada, Australia, and New Zealand

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	find relevant information related to Australian, Canadian and New Zealand history and society and connect them to issues of gender, religion, race, the environment and postcoloniality.	K1
CO2	relate politically and aesthetically to literatures of indigenous communities from these regions.	K2
CO3	identify how literature shapes our ideas about society and social identities in interaction with other discourses.	K3
CO4	examine the significant presence of nature in the writing from these regions and dissect the colonial and postcolonial histories of Australia, Canada and New Zealand.	K4
CO5	interpret and elaborate on the texts that emerge from these locations and their connection to the social, political and cultural issues.	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction-Key Concepts</u> 1.1 Ashcroft et al.: <i>The Empire Writes Back</i> 1.2 Padmini Mongia, Ed: <i>Contemporary Post-Colonial Theory: A Reader</i> 1.3 Ashcroft et al, Ed: <i>The Post Colonial Studies Reader</i>	K1-K6	10	1-5
2	<u>Canada</u> 2.1 Joy Kogawa: Where There's a Wall 2.2 Margaret Atwood: Wilderness Tips 2.3 Jeanette C Armstrong: Indian Woman 2.4 George Ryga: <i>The Ecstasy of Rita Joe</i> 2.5 Thomas King: <i>Truth and Bright Water</i> 2.6 Gregory Scofield: Answer for My Brother: Who are the Métis?	K1-K6	20	1-5
3	<u>Australia</u> 3.1 Lionel Fogarty: Remember Something like This 3.2 Jack Davis: <i>No Sugar</i> 3.3 Peter Carey: American Dreams 3.4 Oodgeroo Noonuccal (Kath Walker): Integration – Yes!	K1-K6	20	1-5
4	<u>New Zealand</u> 4.1 Maurice Shadbolt: The Room 4.2 Witi Ihimaera: <i>The Whale Rider</i> 4.3 Louise Wallace: Ahakoa he iti he pounamu	K1-K6	20	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts discussed in the syllabus	K5-K6	8	5

BOOKS FOR REFERENCE

Barker, Francis. et al. *Colonial Discourse, Post Colonial Theory*. Manchester UP, 1994.

Bayard, Caroline. *New Poetics in Canada and Quebec: From Concretism to Post-Modernism*. University of Toronto Press, 1989.

Bennett, Bruce. *Sense of Exile*. Western Australia: Centre for Studies in Australian Literature, 1988.

Birns, Nicholas and Rebecca McNeer eds. *A Companion to Australian Literature since 1900*. Camden House, 2010.

Howells, Coral Ann. *The Cambridge Companion to Margaret Atwood*. CUP, 2006.

Irvine, Lorna L. *Sub/Version: Canadian Fiction by Women*. ECW Press, 1986.

Juneja, Om P. *The Post Colonial Novel - Narratives of Colonial Consciousness*. Creation, 1995.

King, Bruce. *New National and Post-colonial Literatures*. Clarendon Press, 1996.

Kröller, Eva-Marie. *The Cambridge Companion to Canadian Literature*. CUP, 2017.

Kudchedkar, Shirin and Jameela Begum, eds. *Canadian Voices*. Pencraft, 1996.

Pandey, Sudhakar. *Perspectives on Canadian Fiction*. Prestige Books, 1994.

Ray, Arthur J. *Aboriginal Rights Claims and the Making and Remaking of History*. McGill-Queen's Native and Northern Series, 2016.

Ruddell, Nancy. *Raven's Village: The Myths, Arts and Traditions of Native People from the Pacific Northwest Coast*. Canadian Museum of Civilization, 1995.

Schwarz, Henry and Sangeeta Ray. *A Companion to Postcolonial Studies*. Blackwell, 2000.

Stafford, Jane and Mark Williams, ed. *Anthology of New Zealand Literature*. Auckland UP, 2013.

Soyinka, Wole. *Art Dialogue and Outrage: Essays on Literature and Culture*. Methuen, 1993.
 Walder, Dennis. *Post-Colonial Literature in English, History, Language and Theory*. Blackwell, 1998.
 Wheeler, Belinda. *A Companion to Australian Aboriginal Literature*. Camden House, 2015.
 Wilde, William H. and Joy Hooton, eds. *The Oxford Companion to Australian Literature*. OUP 1995.
 Young, Robert J.C. *Postcolonialism: An Historical Introduction*. Blackwell, 2001.

JOURNALS

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Postcolonial Studies <http://criticalflame.org/> <https://www.aprweb.org/>

WEB RESOURCES

<https://postcolonial.net/>

<https://dal.ca/libguides.com/canlit/home>

ONLINE COURSES

Indigenous Canada <https://in.coursera.org/learn/indigenous-canada>

Aboriginal Worldviews and Education <https://www.coursera.org/learn/aboriginal-education>

PATTERN OF ASSESSMENT

Unit I not for testing

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage given from a text on the syllabus

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
 Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions in Section D should be based on a passage given from a text prescribed on the syllabus

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/CA65												
	Course Title: LITERATURE OF AUSTRALIA, CANADA AND NEW ZEALAND												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 2	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 3	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	2	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

AFRICAN AND CARIBBEAN LITERATURES

CODE: 23EL/MC/AC65

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To introduce students to the political, social and cultural trends in Africa and the Caribbean Islands
- To familiarise students with the most significant writers and their texts from these areas
- To acquaint students with the ways in which writers from these areas have engaged with the social, cultural and political conditions and changes in their countries
- To introduce students to different literary traditions
- To help students understand select literary texts within the larger national, cultural and ethnic contexts

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	relate literary works with the social and cultural contexts in select countries from Africa and the Caribbean Islands.	K1
CO2	explain the relationships between literary works and the social, political, economic, ecological, historical, and cultural contexts in select countries from Africa and the Caribbean Islands.	K2
CO3	identify how select writers from the region have engaged with the colonial past and contemporary realities of their nations.	K3
CO4	examine how select writers from the region have engaged with different literary traditions.	K4
CO5	determine how writers from the region engage with the implications of the colonial past and discuss select literary texts within the larger national, cultural and ethnic contexts.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Nigeria and Ghana</u> 1.1 Chinua Achebe: <i>Things Fall Apart</i> 1.2 Wole Soyinka: <i>The Lion and the Jewel</i> 1.3 Ama Ata Aidoo: <i>Anowa</i> 1.4 Chimamanda Adiche: <i>The Thing Around Your Neck</i> (from <i>The Thing Around Your Neck</i>)	K1 - K6	20	1-5

UNIT	CONTENT	CL	Hrs	CO
2	<u>Egypt and Senegal</u> 2.1 Ahdaf Soueif: <i>Cairo: Memoir of a City Transformed</i> 2.2 Leopold Senghor: Black Woman	K1 - K6	10	1-5
3	<u>Malawi and South Africa</u> 3.1 David Rubadiri: Stanley Meets Mutesa 3.2 Makhosazana Xaba: Running (From <i>Dinaane Short Stories by South African Women</i>)	K1 - K6	13	1-5
4	<u>The Caribbean</u> 4.1 Edward Kamau Brathwaite: Limbo 4.2 Derek Walcott: Crusoe's Island 4.3 Cyril Dabydeen: Dubious Foreigner 4.4 Jean Rhys: <i>Wide Sargasso Sea</i> 4.5 David Dabydeen: The Counting House (from <i>Counting House</i>)	K1 - K6	25	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts discussed in the syllabus	K5, K6	10	5

BOOKS FOR REFERENCE

Ashcroft Bill, Gareth Griffiths and Helen Tiffin. "Introduction." *The Empire Writes Back: Theory and Practice in Post-Colonial Literatures*. Routledge, 2006.

Castle, Gregory. *Postcolonial Discourses: An Anthology*. Blackwell, 2001.

Donnell, Alison and Sarah Lawson Welsh. *The Routledge Reader in Caribbean Literature*. Routledge, 2005.

Fanon, Frantz, Trans, Constance Farrington *Black Skin, White Masks*. Grove Press, 2007.

Gyasi, Yaa. *Home Going*. Viking, 2016.

Ledent, Benedicte et al. *Madness in Anglophone Caribbean Literature*. Palgrave Macmillan, 2018.

Newell, Stephanie. *West African Literatures: Ways of Reading*. OUP, 2006.

O'Connor, Mark. Ed. *Two Centuries of Australian Poetry*. 2nd Edition, OUP, 2006.

Schwarz, Henry and Sangeeta Ray. *A Companion to Post Colonial Studies*. Blackwell Publishing. 2005.

Stuart Hall. "Cultural Identity and Diaspora" *The Post-Colonial Studies Reader*. 2nd ed. Ed. Bill Ashcroft, Gareth Griffiths and Helen Tiffin. Routledge, 2006. pp 199-202.

Wa Thiong' O, Ngugi. *Globalectics: Theory and Politics of Knowing*. Columbia University Press, 2012.

JOURNALS

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Postcolonial Studies

WEB RESOURCES

<http://universitypublishingonline.org/cambridge/histories> <http://www.pmc.edu/african-american-caribbean-lit-subject-guide>

ONLINE COURSES

Postcolonial Literature <https://nptel.ac.in/courses/109104116>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
 Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

**Mapping of Course Outcomes (COs)
 to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/AC65												
	Course Title: AFRICAN AND CARIBBEAN LITERATURES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	2	2	2	3	3	3	3	3	3	3
CO 2	3	3	1	2	2	2	3	3	3	3	3	3	3
CO 3	3	3	1	2	2	2	3	3	3	3	3	3	3
CO 4	3	3	1	2	2	2	3	3	3	3	3	3	3
CO 5	3	3	1	2	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH XII- ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

WEST ASIAN LITERATURE

CODE:23EL/MC/WA65

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To introduce students to writing from the West Asian region
- To analyse major themes, motifs, and narrative techniques found in West Asian literature
- To acquaint them with the socio-political contexts that inform the content and the form of texts from the region
- To help them engage with issues related to the interplay of gender, religion and politics
- To sensitise students to the writing that emerges from conflict zones

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	find relevant information related to West Asian history, society, and geopolitics and relate it to issues of gender, religion, and the environment	K1
CO2	interpret writing from conflict zones across the region	K2
CO3	identify the geo-political dynamics of the region and apply it to the prescribed texts	K3
CO4	analyse texts using their knowledge of the politics of the region and correlate the experiences from different countries in the region	K 4
CO5	evaluate the experiences of the people from West Asia and develop a sensitive approach to the realities of the region	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction</u> 1.1 Margot Badran: Islamic Feminism: What's in a Name? 1.2 Edward Said: Reflections on Exile	K1-K3	10	1-5
2	<u>Palestine and Israel</u> 2.1 Palestine 2.1.1 Mahmoud Darwish: The Passport 2.1.2 Falastine Dwikat: Beit Byout (Play House) 2.2 Israel 2.2.1 Yehuda Amichai: It's a Long Time Since Anybody's Asked; Why I am Big and Fat	K1-K6	23	1-5

UNIT	CONTENT	CL	Hrs	CO
3	<u>Iran, Iraq, and Saudi Arabia</u> 3.1 Iran 3.1.1 Marjane Satrapi: <i>Persepolis</i> 3.1.2 Goli Taraghi: A House in Heaven 3.2 Iraq 3.2.1 Hassan Blasim: The Reality and the Record 3.2.2 Dunya Mikhail: I Was in a Hurry 3.3 Saudi Arabia 3.3.1 Mohammad Hassan Alwan: Oil Field	K1-K6	23	1-5
4	<u>Lebanon and Syria</u> 4.1 Lebanon 4.1.1 Emily Nasrallah: The Green Bird 4.2 Jordan 4.2.1 Hisham Bustani: Freefall in a Shattered Mirror 4.3 Syria 4.3.1 Adonis: The Days; Underground	K1-K6	12	1-5
5	<u>Practical Application Tasks</u> Practical analysis of literary texts/passages applying concepts discussed in the syllabus	K5, K6	10	5

BOOKS FOR REFERENCE

Amiry, Suad. *Menopausal Palestine: Women at the Edge*. Women Unlimited, 2010.

Ansari, Hamid. *Travelling through Conflict: Essays on the politics of West Asia*. Pearson, 2008.

Best, Anthony et al. *International History of the Twentieth Century and Beyond*. Routledge, 2008.

Cooke, Miriam. "Talking Democracy". *Women and the War Story*. University of California, 1996.

Dabashi, Hamid. *The Arab Spring: The End of Postcolonialism*. Zed Books, 2012.

Dawisha, Adeed. *Arab Nationalism in the Twentieth Century: From Triumph to Despair*. Princeton UP, 2016.

Keylor, William. *The Twentieth Century World: An International History*. OUP, 1984.

Notes on West Asia. Department of English, Stella Maris College, 2007.

Said, Edward W. *Reflections of Exile and Other Literary and Cultural Essays*. Penguin Books, 2001.

Singh, Karan. *History, Culture and Society in India and West Asia*. Shipra, 2003.

Sisodia, N. S. *West Asia in Turmoil*. Academic Foundation, 2007.

JOURNALS

IJAPS - International Journal of Asia Pacific Studies Wasafiri

WEB RESOURCES

electronicintifada.net/

Fayad, Mona. "Reinscribing Identity: Nation and Community in Arab Women's Writing". *College Literature*, vol. 22, no. 1, Feb. 1995, pp. 147-60. John Hopkins University Press. www.jstor.org/stable/25112170.

ONLINE COURSES

The Emergence of the Modern Middle East - Part I <https://www.coursera.org/learn/modern-middle-east-1>

The Emergence of the Modern Middle East - Part II <https://www.coursera.org/learn/modern-middle-east-2>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words) Questions in Section D should be based on a passage given from a text on the syllabus

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words) Questions in Section D should be based on a passage given from a text on the syllabus

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/MC/WA65												
	Course Title: WEST ASIAN LITERATURE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	1	3	3	3	3	3	3	3
CO 2	3	3	3	3	2	1	3	3	2	3	3	3	3
CO 3	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 4	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	2	2	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi- Canticle of creatures Seeking the Divine through meditation, prayer and worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic

- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion’s vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one’s past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

ENGLISH LANGUAGE TEACHING

CODE: 23EL/ME/LT45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable students to distinguish between language acquisition and language learning
- To acquaint students with the psychology of language learning
- To equip students with the skills to identify methods and approaches in language teaching
- To train students in assessing the needs of learners to prepare lesson plans for different levels of learners
- To help students gain an understanding of the principles of language testing and the different kinds of test

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define the different stages of First Language Acquisition and Second Language Learning.	K1
CO2	compare and contrast various kinds of tests and examine the different components of the syllabus and the curriculum	K2
CO3	identify the language learning strategies as defined by Behaviourist, Cognitivist, and Humanistic schools of psychology.	K3
CO4	analyse the different teaching strategies and tasks that could be used to train learners in the use of the language.	K4
CO5	evaluate the learners' language proficiency; frame a daily lesson plan to develop the learners' communicative competence and create tasks to train learners in the use of the language and prepare materials for teaching the four skills of language.	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Language Acquisition</u> 1.1. First Language Acquisition of the Child 1.1.1 Lateralisation of the Brain 1.1.2 Learning by Imitation 1.1.3 Language Acquisition Devices 1.1.4 Generalisation 1.2 Second Language Learning of the Adult 1.2.1 Mother tongue Interference 1.2.2 Psychological and Sociological Factors Influencing Second Language Learning	K1-K6	10	1-5
2	<u>Psychology of Learning</u> 2.1. Behaviourism 2.1.1 Behaviourist Psychology 2.1.2 Stimulus–Response Learning Reinforcement 2.2 Cognitive Learning 2.2.1 Cognitive Structure 2.2.2 Concept Formation 2.2.3 Theory of Subsuming 2.2.4 Theory of Forgetting 2.2.5 Bloom’s Taxonomy 2.3 Humanistic Approach to Learning 2.3.1 The Teacher–Student Relationship	K1-K6	15	1-5
3	<u>Approaches, Methods and Techniques in Language Teaching</u> 3.1 The Grammar Translation Method, the Situational Method and the Audio-Lingual Method 3.2 Communicative Approach 3.2.1 Communicative Competence as different from Linguistic Competence 3.2.2 The Teacher's Role—The Student's Role 3.2.3 Task- based activities in the class 3.3 Skills Approach 3.3.1 Teaching Reading Skills—Skimming, Scanning and Intensive Reading 3.3.2 Teaching Listening Skills—Listening for Specific Details, Keywords, Concepts 3.3.3 Teaching Speaking Skills—Expressing Ideas, Opinions, Presenting an Argument. 3.3.4 Teaching Writing Skills—Writing a Paragraph—Topic Sentence, Main Idea, Supporting Ideas, Concluding Sentence—Descriptive and Narrative Writing	K1-K6	10	1-5
4	<u>Syllabus</u> 4.1 Definition of Syllabus and Curriculum 4.1.1 The Components of a Syllabus 4.1.2 Testing and Assessment 4.2 Kinds of Tests 4.2.1 Placement Test 4.2.2 Diagnostic Test	K1-K4	10	1-3

UNIT	CONTENT	CL	Hrs	CO
	4.2.3 Progress Test 4.2.4 Achievement Test 4.2.5 Proficiency Test 4.3 Criteria involved in Validity and Reliability			
5	<u>Materials Production</u> 5.1 Use of Conventional Resources 5.2 Use of Audiovisual Aids and Computer Software 5.3 Lesson Plan 5.4 Teaching Practice	K5, K6	15	5

BOOKS FOR REFERENCE

Fulcher, Glen and Fred Davidson. *Language Testing Assessment*. Routledge, 2007.
Hall, Graham. *Exploring English Language Teaching: Language in Action*, 2nd ed. Routledge, 2017.
Krashen, Stephen D. *Second Language Acquisition and Second Language Learning*. Pergamon Press, 1988.
Lefrancois, Guy R. *Psychology for Teaching*. Wordsworth Publishing Co., 2000.
Mc Whorter, Kathleen. *College Reading and Study Skills*. Little, Brown and Company, 1986.
Prabhu, N.S. *Communicative Teaching Project*. Bulletin of the Regional Institute of English, 1981.
Rank Tom et al. *Teaching English Using ICT : A Practical Guide for Secondary School Teachers*. Continuum 2011.
Richards, Jack C. and Theodore S. Rodgers. *Approaches and Methods in Language Teaching*. Cambridge UP, 2006.
Yule, George and Gillian Brown. *Teaching Spoken English*. Cambridge UP, 1983.

JOURNALS

<http://education.waikato.ac.nz/research/journal>
<http://www.jlls.org/index.htm>
<http://journals.eltai.in/>
<http://jolt.merlot.org/index.html>
<http://www.melta.org>

ONLINE COURSES

Teach English Now! Second Language Listening, Speaking and Pronunciation offered by Arizona State University <https://in.coursera.org/learn/tesol-speaking>
Teach English Now! Technology Enriched Teaching offered by Arizona State University <https://in.coursera.org/learn/tesol-technology>
Teach English Now! Teach Language Online offered by Arizona State University <https://in.coursera.org/learn/teachlanguageonline>
Teaching EFL/ESL Reading: A Task based Approach offered by University of London <https://in.coursera.org/learn/esl-reading>
Tesol Certificate, Part 1: Teach English Now! Specialization offered by Arizona State University <https://in.coursera.org/specializations/tesol>
Tesol Certificate, Part 2: Teach English Now! Specialization offered by Arizona State University <https://in.coursera.org/specializations/tesol-certificate-2>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	5	1x5=5 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
	K4	10	1x10=10 (1 out of 2 questions, 200 words)
D	K5	10	1x10=10 (evaluate appropriate teaching method/approach for a given passage, 200 words)
	K6	10	1x10=10 (frame 2 tasks for each language skill- - LSRW Grammar/Vocabulary for a given passage)

Other Components:

Total Marks: 50

Lesson Plan 25

Micro teaching (teaching their own classmates 25

Cognitive Level	Marks
K1	2
K2	2
K3	4
K4	4
K5	5
K6	8

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5	20	1x20=20 (evaluate appropriate teaching method/approach for a given passage, 250 words)
	K6	20	1x20=20 (frame 4 tasks for each language skill- - LSRW Grammar/Vocabulary for a given passage)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/ME/LT45												
	Course Title: ENGLISH LANGUAGE TEACHING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	2	2	3	3	2	3	3	3	3	2	3
CO 4	3	3	2	3	3	3	2	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII - ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO CHILDREN'S LITERATURE

CODE:23EL/ME/CW45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To introduce students to theoretical concepts in the field of children's literature
- To help students appreciate the diversity of children's literature
- To introduce students to the features of some of the sub-genres of children's literature
- To enable students to deconstruct the use of word choice, dialogue, narration, story structure, and other elements of storytelling in contemporary children's books
- To train students to create stories for children in the prescribed sub-genres

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define children's literature and concepts related to childhood	K1
CO2	compare and contrast children's literature and literature for adults and understand the techniques and strategies used by writers and illustrators of children's books	K2
CO3	identify key features of the sub-genres of children's literature and organise texts into the respective categories	K3
CO4	analyse texts using critical vocabulary pertaining to various sub-genres such as the Picturebook, the Comic Book and the Journal	K 4
CO5	evaluate the role of the adult in the creation of books meant for children and the relevance of such books, and create stories for children based on the knowledge of the features of the prescribed sub-genres	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to Children's Fiction</u> 1.1 Defining Children's Literature – Paradoxes, The Implied Reader, Double Address 1.2 Childhood – A Personal and Social Construct	K1-K3 K1-K3	10	1-3
2	<u>The Picture Book</u> 2.1 Features of the Picturebook 2.1.1 Manjula Padmanabhan: <i>Where's that Cat?</i> 2.1.2 Maurice Sendak: <i>Where the Wild Things Are?</i> 2.1.3 Christina Baldacchino: <i>Morris Micklewhite and the Tangerine Dress</i> 2.1.4 Sandhya Rao: <i>My Friend, the Sea</i> 2.1.5 Sheila Dhir: <i>Why are You Afraid to Hold My Hand?</i>	K1-K3 K1-K6 K1-K6 K1-K6 K1-K6 K1-K6	15	1-3 1-5
3	<u>The Comic Book</u> 3.1 Features of the Comic Book 3.1.1 Hank Ketcham: Summertime Santa from <i>Dennis the Menace</i> 3.1.2 Rene Goscinny and Albert Uderzo: <i>Asterix, the Gaul</i> 3.1.3 Amar Chitra Katha - The Phases of the Moon from <i>The Inimitable Birbal</i>	K1-K3 K1-K6	15	1-3 1-5
4	<u>The Novel</u> 4.1 Features of the Journal 4.1.1 Jacqueline Wilson: <i>The Story of Tracy Beaker</i>	K1-K3 K1-K6	20	1-5
5	<u>Practical Application Tasks</u> Practical analysis of texts/passages applying concepts related to the sub-genres of children's literature	K5, K6	5	5

BOOKS FOR REFERENCE

Alston, Ann. *The Family in English Children's Literature*. Routledge, 2008.

Cullingford, Cedric. *Children's Literature and its Effects: The Formative Years*. Cassel, 1998.

Grenby, M. O., and Kimberley Reynolds. *Children's Literature Studies: A Research Handbook*. Palgrave, 2011.

Haviland, Virginia, editor. *Children and Literature: Views and Reviews*. Bodley Head, 1974.

Kakar, Sudhir. *The Inner World: A Psycho-Analytic Study of Childhood and Society in India*. 2nd ed., Oxford UP, 1981.

Peter, Hunt, editor. *Understanding Children's Literature: Key Essays from the International Companion Encyclopaedia of Children's Literature*. Taylor & Francis e-Library, 1999.

Reynolds, Kimberley. *Children's Literature in the 1890s and the 1990s*. Writers and Their Work Series, Northcote House in association with the British Council, 1994.

---. *Radical Children's Literature: Future Visions and Aesthetic Transformations in Juvenile Fiction*. Palgrave, 2007.

Sipe, Lawrence R., and Sylvia Pantaleo, editors. *Postmodern Picturebooks: Play, Parody, and Self-Referentiality*. Routledge, 2008.

Styles, Morag, and Eve Bearne, editors. *Art, Narrative and Childhood*. Trentham, 2003.

Superle, Michelle. *Contemporary English-Language Indian Children's Literature: Representations of Nation, Culture, and the New Indian Girl*. Routledge, 2011.

JOURNALS

Children's Literature Association Quarterly
Bookbird: A Journal of Children's Literature
Horn Book Magazine

WEB RESOURCES

Anstey, Michele. "'It's Not All Black and White': Postmodern Picturebooks and New Literacies." *Journal of Adolescent & Adult Literacy*, vol. 45, no. 6, 2002, pp. 444+.
Academic Search Elite. www.scribd.com/doc/91921813/Postmodern-Picture-Books.
Berry, Nita. "Social Change through Children's Books – An Indian Perspective." *Bookbird: A Journal of Children's Literature* Vol 54, no.1, 2016, pp 48-54.

ONLINE COURSES

Writing for Young Readers: Opening the Treasure Chest
<https://www.coursera.org/learn/writing-for-children>
Exploring Books for Children: Words and Pictures
<https://www.open.edu/openlearn/history-the-arts/exploring-books-children-words-and-pictures/content-section-0?active-tab=description-tab>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5	15	1x15=15 (Passage Analysis from prescribed texts, 250 words)

Other Components:

Total Marks: 50

One oral presentation (Critical Analysis) - 25 marks

One written assignment (Creative Writing) - 25 marks

Cognitive Level	Marks
K1	5
K2	5
K3	5
K4	5
K5	10
K6	20

End Semester Evaluation:**Total Marks: 100**

Term Paper of 2500 words (Critical Analysis / Creative)

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	Documentation/Reflection of the knowledge of concepts related to the child and childhood
K2	10	Formulating and explaining topic statement/Awareness of the features of the sub-genre of the creative work
K3	10	Explaining the conceptual framework/Application of the knowledge of strategies in writing narratives for children
K4	30	Textual analysis/Narrative content
K5	20	Research arguments, relevance, coherence, appropriate use of academic language/Coherence and creativity
K6	20	Stating the conclusions/Execution of the creative work

No End-Semester Examination.

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/ME/CW45												
	Course Title: INTRODUCTION TO CHILDREN'S LITERATURE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	1	3	3	3	3	3	3
CO 2	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	1	3	3	2	1	3	3	3	2	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII - ENGLISH

SYLLABUS

(Effective from the academic year 2023 – 2024)

JOURNALISTIC WRITING

CODE:23EL/ME/JW45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To introduce students to different kinds of writing for the print media
- To enable students to identify news and enhance their research skills for news writing
- To familiarise students with the conventions and nuances of news writing
- To train students to write different kinds of news reports and feature stories
- To facilitate students to review and edit newsletters

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define terms and concepts in journalism	K1
CO2	compare and contrast different kinds of journalistic writings	K2
CO3	identify newsworthy stories and credible information from varied sources	K3
CO4	analyse data gathered through research, field notes and interviews for journalistic writing	K4
CO5	review drafts and create a portfolio of well-organized news reports, features and other kinds of journalistic writing	K5 - K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction</u> 1.1 Identifying News 1.1.1 News Determinants 1.2 Kinds of News 1.2.1 Hard News 1.2.2 Soft News	K1, K2	5	1-2
2	<u>Basics of Writing</u> 2.1 Gathering information- Library Sources, Surveys, Interviews 2.2 Developing the Story 2.2.1 Writing Headlines 2.2.2 Writing Leads 2.2.3 Quotation and Attribution 2.2.4 Writing captions for pictures	K1-K6	20	1-5
3	<u>Writing News Reports</u> 3.1 The Inverted Pyramid Format 3.2 Writing the Lead 3.3 Developing the Story	K1-K6	10	1-5
4	<u>Writing Features</u> 4.1 The Hourglass format 4.2 Writing the Lead 4.3 Kinds of Features	K1-K6	10	1-5
5	<u>Other kinds of Journalistic Writing</u> 5.1 Personality Profile 5.2 Reviews- Movies, Books, Food, Travel 5.3 Interviews- Q & A	K1-K6	20	1-5

BOOKS FOR REFERENCE

Dominick, Joseph R. *The Dynamics of Mass Communication: Media in Transition*. McGraw-Hill, 2013.

Froke, Paula, et al. *The Associated Press Stylebook 2018 and Briefing on Media Law*. Basic Books, 2018.

Itule, Bruce D., and Douglas A. Anderson. *News Writing and Reporting for Today's Media*. McGraw Hill, 2008.

Kovach, Bill, and Tom Rosenstiel. *The Elements of Journalism*. Three Rivers Press, 2014.

WEB RESOURCES

oxfordre.com newsu.org

learno.net/courses/mapping-for-journalists

ONLINE COURSES

English for Journalism <https://www.coursera.org/learn/journalism>

Print and Broadcast Journalism https://onlinecourses.swayam2.ac.in/cec21_ge13/preview

PATTERN OF ASSESSMENT:

Continuous Assessment:

Total Marks: 50

One first-hand report and one feature on any topic of the student's choice

25 marks

Cognitive Level	Marks	Rubrics for Evaluation
K1	4	Gathering data and documentation
K2	4	Understanding of various formats of news writing
K3	4	Explaining the content using relevant quotations and attributions
K4	4	Analysis of the topic/ issue/ argument
K5	5	Evaluating and organising the data coherently
K6	4	Formulating the headline and writing the lead

Portfolio- Classwork done over the semester

25 marks

Cognitive Level	Marks	Rubrics for Evaluation
K1	4	Gathering data and documentation
K2	4	Understanding of various formats of news writing
K3	4	Explaining the content using relevant quotations and attributions
K4	4	Analysis of the topic/ issue/ argument
K5	5	Evaluating and organising the data coherently in the appropriate format
K6	4	Formulating the headline and writing the lead

End-Semester Evaluation:

Total Marks: 100

Two features of 1000-1500 words each on separate topics

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	Gathering data and documentation
K2	15	Understanding of various formats of feature writing
K3	15	Explaining the content using relevant quotations and attributions
K4	25	Analysis of the topic/ issue/ argument.
K5	25	Evaluating and organising the data coherently
K6	10	Formulating the headlines and writing the lead

No End-Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/ME/JW45												
	Course Title: JOURNALISTIC WRITING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	2	2	2	3	3	3	3
CO 2	3	3	2	3	3	2	2	2	2	3	3	3	3
CO 3	3	3	2	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	2	3	3	3	3	3	3	3	3	3	3
CO 5	2	3	2	3	3	3	3	3	3	3	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII - ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

TRAVEL WRITING

CODE:23EL/ME/TW45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To introduce students to travel writing, different types of travel literature
- To acquaint students with the prominent tropes of the genre
- To train them to analyse travel texts and issues from multiple perspectives, with special concern for how cultural assumptions inform literatures of travel
- To sensitise them to the issues that arise in different contexts
- To equip students to debate the nuances of ethical travel writing

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define the characteristics of different kinds of travel literature	K1
CO2	illustrate the cultural and socio-political aspects of travel literature	K2
CO3	identify the different strategies used by travel writers to deal with difference	K3
CO4	analyse travel writing texts from different perspectives	K4
CO5	evaluate travel narratives and develop strategies to respond empathetically to narratives that record difference and conflict	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to the Genre</u> 1.1 Carl Thompson: Defining the Genre (from <i>Travel Writing</i> , pp 9–33) 1.2 Pico Iyer: Why We Travel (from salon.com)	K1, K2	12	1, 2
2	<u>Travel and Anthropology</u> 2.1 Marco Polo: Of the Great Island of Madagascar (Chapter xxxvi) (from <i>Travels of Marco Polo the Venetian</i> , pp 302–04) 2.2 Zac O’Yeah: Gateway to the World in <i>The Hindu Magazine</i> dated March 2017 2.3 Vikram Seth: <i>From Heaven Lake: Travels through Sinkiang and Tibet</i> , Chapter 13	K1-K6	15	1-5
3	<u>Travel and Socio-political Issues</u> 3.1 William Dalrymple: The Daughters of Yellamma (from <i>Nine Lives</i>) 3.2 Joe Sacco: <i>Footnotes in Gaza</i>	K1-K6	15	1-5

UNIT	CONTENT	CL	Hrs	CO
4	<u>Travel and Humour</u> 4.1 Bill Bryson: <i>Neither Here nor There: Travels in Europe</i> (Chapter on Paris) 4.2 Dervla Murphy: <i>On a Shoestring to Coorg: A Travel Memoir of India</i> , Chapters 1, 2	K1-K6	12	1-5
5	<u>Travel and Food</u> 5.1 Anthony Bourdain: Tokyo Redux (from <i>A Cook's Tour</i>) 5.2 Samanth Subramanian: On Hunting Hilsa and Mastering its Bones (from <i>Following Fish</i>)	K1-K6	11	1-5

BOOKS FOR REFERENCE

Buford, Bill. *The Best American Travel Writing*. Houghton Mifflin Harcourt, 2010.
 Burton, Stacy. *Travel Narrative and the Ends of Modernity*. Cambridge UP, 2014.
 Clarke, Robert, editor. *The Cambridge Companion to Postcolonial Travel Writing*. Cambridge UP, 2018.
 Dalrymple, William. *In Xanadu: A Quest*. Penguin Books, 2004.
 ---. *Nine Lives: In Search of the Sacred in Modern India*. Bloomsbury, 2009.
 Eco, Umberto. *How to Travel with a Salmon and other Essays*. Houghton Mifflin, 1994.
 Edwards, Justin D. and Rune Graulund editors. *Postcolonial Travel Writing: Critical Explorations*. Palgrave Macmillan, 2011.
 Frank, Søren. *Migration and Literature*. Palgrave Macmillan, 2008.
 Ghosh, Amitav, *In an Antique Land*. Granta, 1994.
 Holland, Patrick, and Graham Huggan. *Tourists with Typewriters: Critical Reflections on Contemporary Travel Writing*. U of Michigan P, 1998.
 Hulme, Peter and Tim Youngs, editors. *The Cambridge Companion to Travel Writing*. Cambridge UP, 2002.
 Iyer, Pico. "Where is Home?" *TED Talks*. 17 Jul 2013, www.youtube.com/watch.
 Knowles, Sam. *Travel Writing and the Transnational Author*. Palgrave Macmillan, 2014.
 Kuehn, Julia and Paul Smethurst, editors. *Travel Writing, Form and Empire: The Poetics and Politics of Mobility*. Routledge, 2009.
 Lisle, Debbie. *The Global Politics of Contemporary Travel Writing*. Cambridge UP, 2006.
 Mehta, Suketu, *Maximum City: Bombay Lost and Found*. Penguin, 2004.
 Mohanty, Sachidananda, editor. *Travel Writing and the Empire*. Katha, 2003.
 Speake, Jennifer. *Literature of Travel and Explorations: An Encyclopedia*. Fitzroy Dearborn, 2003.
 Thompson, Carl. *Travel Writing*. Routledge, 2011.
 ---, editor. *The Routledge Companion to Travel Writing*. Routledge, 2016.
 Youngs, Tim, editor. *Travel Writing in the Nineteenth Century: Filling the Blank Spaces*. Anthem Press, 2006.

JOURNALS

Studies in Travel Writing
 Journeys

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: **Total Marks: 50** **Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	1x10=10 (1 out of 2 questions, 150 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components: **Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Evaluation

Total marks: 100

Term Paper (2500 words – open choice of text)

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	MLA Documentation
K2	15	Formulating and explaining research problem/question
K3	15	Explaining the conceptual framework
K4	25	Textual analysis and use of secondary sources
K5	25	Research arguments, relevance, coherence, appropriate use of academic language
K6	10	Research conclusions

No End-Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/ME/TW45												
	Course Title: TRAVEL WRITING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	2	3	3	2	3	3	3	3	2	3	3
CO 2	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.A. DEGREE BRANCH - XII: ENGLISH

SYLLABUS

(Effective from the academic year 2023-24)

LITERATURE AND FOOD

CODE: 23EL/ME/LF45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To examine the intrinsic connection between food and literature
- To outline terms and concepts related to food studies
- To assess the interdisciplinary nature of food studies in combination with the skills that can be enhanced with relation to food and writing
- To discover various modes of writing about food
- To evaluate and interpret texts based on their interaction with food

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the various theories, concepts, and ideas related to literature and food	K1
CO2	interpret and outline the socio-political, historical, and cultural contexts of food literatures	K2
CO3	identify interdisciplinary aspects of food literature	K3
CO4	analyse and examine the connections between food and literature and be able to put it to use	K4
CO5	appraise and evaluate food literatures using relevant frameworks	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to Literature and Food</u> 1.1 Roland Barthes: Toward a Psychosociology of Contemporary Food Consumption 1.2 Anita Mannur: Introduction: Food Matters (p. 10-19, from <i>Culinary Fictions: Food in South Asian Diasporic Culture</i>)	K1-K6	8	1-5
2	<u>Understanding Food Writing</u> 2.1 Defining Food Writing 2.2 Food Writing Formats - The Interview, Travel Story, Recipe with a Story, Review, Personal Essay, Blogs	K1-K6	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.2.1 Anthony Bourdain: A Cook's Tour (Season 1, Episode 3) 2.2.2 Maitreyi Sen Paul: Ilish Pulao is a Bengali Way of Life			
3	<u>Food and Identity</u> 3.1 Rege, et al : Extract from <i>Isn't this Plate Indian?</i> (p.61-68) 3.2. Neeraj Ghaywan: <i>Juice</i>	K1-K6	18	1-5
4	<u>Food, Diaspora and Ethnicity</u> 4.1 How the Chinese Diaspora Feeds Itself, in 100 Dazzling Illustrations 4.2. Jhumpa Lahiri: Mrs. Sen's from the <i>Interpreter of Maladies</i> 4.3 Shan Foods : Khaana With Parosi	K1-K6	15	1-5
5	<u>Food and Fantasy</u> 5.1 Laura Esquivel : <i>Like Water for Chocolate</i> 5.2. Maurice Sendak: <i>Chicken Soup with Rice</i>	K1-K6	12	1-5

BOOKS FOR REFERENCE

Ashley, Bob, et al. "Food and Cultural Studies." *Routledge eBooks*, 2004.

Bourdain, Anthony. *Kitchen Confidential: Adventures in the Culinary Underbelly*. Bloomsbury, 2000.

Gilbert, Sandra. *The Culinary Imagination: From Myth to Modernity*. WW Norton, 2014

Gilbert, Sandra. et.al. *Eating Words: The Norton Anthology of Food Writing*. New York. W.W. Norton & Company, 2015.

Jacob, Dianne. *Will Write for Food: The Complete Guide to Writing Cookbooks, Blogs, Memoir, Recipes, and More*. Da Capo Lifelong Books, 2015.

Klitzing, Anke. "My Palate Hung with Starlight: a Gastrocritical Reading of Seamus Heaney's Poetry". *East-West Cultural Passage*, 19 (2), pp. 14-39.

Shahani. G. Gitanjali. ed. *Cambridge Critical Concepts: Food and Literature*. Cambridge University Press, 2018

Venkatachalapathy, A R . *In Those Days There was no Coffee: Writings in Cultural History*. Yoda Press, 2006

Zinsser, W. *On Writing Well: The Classic Guide to Writing Nonfiction*. 25th-anniversary edition. New York: Harper Resource Quill, 2001.

WEB RESOURCES

Moody, Rick. "A Guide to Revision".2018 <https://spoonsandbooks.com/2018/09/15/how-to-edit-rick-moodys-guide-to-revision/>

ONLINE COURSES

Introduction to Food Writing: <https://wp.writingclasses.com/courses/food-writing/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	1x10=10 (1 out of 2 questions, 150 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Evaluation

Total marks: 100

Term Paper (2500 words – open choice of text)

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	MLA Documentation
K2	15	Formulating and explaining the research problem/question
K3	15	Explaining the conceptual framework
K4	25	Textual analysis and use of secondary sources
K5	25	Research arguments, relevance, coherence, appropriate use of academic language
K6	10	Research conclusions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/ME/LF45												
	Course Title: LITERATURE AND FOOD												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	3	2	3	3	3	3	3	3	3
CO 2	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 3	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	2	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	2	3	2	3	3	3	3	3	3	3
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023–2024)

PROJECT

CODE:23EL/ME/PR45

CREDITS:5

OBJECTIVES OF THE COURSE

- To provide students with the skills to undertake independent research on an area of their interest
- To enable students to identify a research gap
- To train students to formulate a clear research question
- To inculcate in students the skillset required to carry out structured, ethical research
- To train students in writing a well-organised and well-documented short research paper.

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to

COs	DESCRIPTION	CL
CO1	define a research area.	K1
CO2	identify the research gap in the area.	K2
CO3	construct a research framework, cogent arguments to fill in the research gap.	K3
CO4	examine and make ethical and optimal use of resources .	K4
CO5	interpret and evaluate the ideas, and develop an argument to compose a well-organised and well-documented research paper.	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Description: Analysis/argument in the form of an extended research paper on a topic or aspect of a topic following the MLA (Eighth Edition) documentation and citation style.

Length : Around 3000-4000 words/10-20 pages, organised in 2 to 3 chapters

Scope : Students could work on

- a) an author/authors
- b) a particular theme or issue in the context of a literary work
- c) use a given theoretical approach to a particular text/group of texts

The above entails extensive reading of primary and secondary texts.
(to be done in consultation with the supervisor)

- Requirement:** An abstract of 150-200 words
1. A clear thesis statement
 2. Works Cited
 3. Documentation and Bibliography using MLA (Eighth Edition) format
 4. Drafting and revising process to be followed – with a percentage of the marks to be allotted to drafts as given below

PATTERN OF ASSESSMENT:

Total marks: 100 marks

Continuous Assessment

Annotated Bibliography

Draft 1

Total Marks:50

20 marks

30 marks

Cognitive Level	Marks	Rubrics for Evaluation
K1	5+5	MLA format for citation of secondary source (annotated bibliography 5, draft 5)
K2	15	Explanation of the relevance of the secondary source (annotated bibliography)
K3	5	Explaining the conceptual framework (draft)
K4	10	Textual analysis and use of secondary sources (draft)
K5	5	Research arguments, relevance, coherence, appropriate use of academic language (draft)
K6	5	Research conclusions (draft)

End Semester Evaluation

(Final Dissertation)

Dissertation

Total Marks: 100

75 marks

Cognitive Level	Marks	Rubrics for Evaluation
K1	5	MLA Documentation
K2	5	Formulating and explaining research problem/question
K3	15	Explaining the conceptual framework
K4	25	Textual analysis and use of secondary sources
K5	15	Research arguments, relevance, coherence, appropriate use of academic language
K6	10	Research conclusions

Viva voce

25 marks

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/ME/PR45												
	Course Title: PROJECT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**General Elective Course Offered by the Department of English to
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SYLLABUS

(Effective from the academic year 2023-2024)

FICTION AND FILM

CODE:23EL/GE/FF22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To equip learners with the skills to appreciate narrative techniques in fiction and film
- To train students to examine technical aspects of film adaptation
- To introduce learners to the cultural aspects of film adaptation

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	relate the principles of adaptation to the specific films	K1
CO2	engage with the different cultural aspects of film adaptation	K2
CO3	identify techniques in fiction and film	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Narrative in Fiction and Film</u> 1.1 Point of view 1.2 Issues of cultural aspects of adaptation 1.3 Narrative techniques in Fiction and Films	K1-K3	8	1-3
2	<u>Novel</u> 2.1 Text: <i>Harry Potter and the Philosopher's Stone</i> 2.2 Film: <i>Harry Potter and the Philosopher's Stone</i> Directed by Chris Columbus	K1-K3	9	1-3
3	<u>One Text; Two Visions</u> 3.1 Film: <i>Sense and Sensibility</i> (Ang Lee) 3.2 <i>Kandukondain Kandukondain</i> (Rajiv Menon)	K1-K3	9	1-3

BOOKS FOR REFERENCE

Chatman, Seymour. *Story and Discourse: Narrative Structure in Fiction and Film*. Cornell University Press, 1978.

Corrigan, Timothy. *Film and Literature: An Introduction and Reader*. Pearson, 1998.

Giannetti, Louis. *Understanding Movies*. Pearson, 2008.

Lothe, Jakobs. *Narrative in Fiction and Film*. OUP, 2000.

Hutcheon, Linda. *A Theory of Adaptation*. Informa, 2006.

Leitch, Thomas. *Film Adaptation and Its Discontents: From Gone with the Wind to The Passion of the Christ*. The Johns Hopkins University Press, 2007.

—. *The Oxford Handbook of Adaptation Studies*. OUP, 2017.

Seger, Linda. *The Art of Adaptation: Turning Fact and Fiction into Film*. Holt Paperback, 1992.

Synder, Mary. *Analyzing Literature to Film Adaptations*. Continuum, 2011.

Verevis, Constantine. *Film Remakes*. Edinburgh University Press, 2006.

WEB RESOURCES

<https://academic.oup.com/book/36229/chapter-abstract/315861581?redirectedFrom=fulltext>

[https://d2buyft38glmwk.cloudfront.net/media/cms_page_media/11/FITC Adaptation 1.pdf](https://d2buyft38glmwk.cloudfront.net/media/cms_page_media/11/FITC_Adaptation_1.pdf)

[https://www.academia.edu/30568663/THEORIES OF ADAPTATION NOVEL TO FILM](https://www.academia.edu/30568663/THEORIES_OF_ADAPTATION_NOVEL_TO_FILM)

ONLINE COURSES

Fiction and Film <https://college.berklee.edu/courses/leng-319>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)

Other Components:

Total marks: 25

Quiz/ Presentations / Analysis of narrative techniques in a passage from fiction
or a clipping from a movie/ Analysis of cultural differences in film adaptations

25 marks

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End-Semester Examination

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SYLLABUS

(Effective from the academic year 2023-2024)

THE GRAPHIC NOVEL

CODE:23EL/GE/GN22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To encourage students to view graphic novels as a composite medium, like film, by examining both visual and textual elements
- To train students to appreciate the unique textures and 'language' of narration in graphic novels
- To introduce students to the complexities of storyboarding and sequential art

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define the characteristics and elements of graphic novels	K1
CO2	classify different genres and themes found in graphic novels and compare the narrative approaches and artistic styles in the novels prescribed	K2
CO3	apply literary and visual analysis skills to identify socio-cultural and political themes	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to Graphic Novels</u> 1.1 Interaction between textual and visual elements of graphic novels 1.2 Narrative: Storyboarding, Dialogue, Setting, Characterisation 1.3 Genres: Humour, Politics, Memoir, Manga 1.4 Representation: Gender, Race, Sexuality	K1-K3	6	1-3
2	<u>Fiction</u> 2.1 Frank Miller, John Romita Jr.: <i>Daredevil: The Man Without Fear</i>	K1-K3	10	1-3
3	<u>Non-Fiction</u> 3.1 Malik Sajad: <i>Munnu: A Boy from Kashmir</i>	K1-K3	10	1-3

BOOKS FOR REFERENCE

Adams, Jeff. *Documenting Graphic Novels and Social Realism*. Peter Lang Publishers, 2008.
McCloud, Scott. *Understanding Comics: The Invisible Art*. HarperCollins Publishers, 1993.
Tabachnik, Stephen E., editor. *The Cambridge Companion to the Graphic Novel*. Cambridge University Press, 2017.
Wolk, Douglas. *Reading Comics: How Graphic Novels Work and What They Mean*. Da Capo Press, 2007.

WEB RESOURCES

<http://graphicnovelresources.blogspot.com/>
<https://tinyurl.com/mrx6fxjw>

ONLINE COURSES

Graphic Novel Classes Online <https://www.skillshare.com/en/browse/graphic-novel-1>
Comic Book and Graphic Novel Scriptwriting
<https://www.udemy.com/course/writecomicslikeapro/>

PATTERN OF ASSESSMENT:

Continuous Assessment: Total Marks: 25 Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)

Other Components:

Total marks: 25

Quiz/Analysis of visual elements in excerpts from graphic novels/Analysis of socio-cultural and political themes in the texts

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**General Elective Course Offered by the Department of English to
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SYLLABUS

(Effective from the academic year 2023-2024)

BASIC THEATRE SKILLS

CODE: 23EL/GE/TS22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To familiarise students with methods of character development
- To interpret works of fiction or poetry through theatre
- To explore voice, action-reaction and emotion in character enactment

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	show the relationships amongst characters and between characters and spaces	K1
CO2	demonstrate an understanding of basic theatre skills	K2
CO3	develop characters according to given contexts	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Creating Text and Subtext</u> 1.1 Improvisations 1.2 Character development 1.3 Staging directions 1.4 Interpreting and enacting poems / excerpts from novels or short stories (Texts to be chosen by Course Teacher)	K1-K3	10	1-3
2	<u>Actor and Action</u> 2.1 Voice (Workshop) 2.2 Chorus 2.3 Action-Reaction 2.4 Emotions 2.5 Relationships	K1-K3	8	1-3
3	<u>Creating and Using Spaces</u> 3.1 Using Spaces 3.2 Creating Spaces: Word Scenery, Symbolic Spaces 3.3 Presentation of a rehearsed piece	K1-K3	8	1-3

BOOKS FOR REFERENCE

Aston, Elaine, and Geraldine Harris, editors. *Feminist Futures? Theatre, Performance, Theory*. Palgrave Macmillan, 2006.

Bleeker, Maaïke, Adrian Kear, Joe Kelleher, and Heike Roms, editors. *Thinking through Theatre and Performance*. Methuen, 2019.

Read, Alan. *Theatre and Everyday Life: An Ethics of Performance*. Routledge, 1993.

Styan, J. L. *Drama, Stage and Audience*. Cambridge University Press, 1975.

Woodson, Stephani Etheridge and Tamara Underiner, editors. *Theatre, Performance and Change*. Palgrave Macmillan, 2018

PATTERN OF EVALUATION

Continuous Assessment:

Total Marks: 25

Creation of a play-script OR Review of a performance

Section	Cognitive Level	Marks	Pattern
A	K1	5	Structure and organisation of the written piece
B	K2	10	Relating the script/review to similar pieces
C	K3	10	Applying aspects of theatre in their writing

Other Components:

Total Marks: 25

Final Presentation (Individual/ pair/ group)

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**General Elective Course Offered by the Department of English to
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SYLLABUS

(Effective from the academic year 2023-2024)

POPULAR CULTURE

CODE:23EL/GE/PC22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To enable students to arrive at a definition of what ‘popular culture’ means in the contemporary world
- To encourage students to think critically about popular culture
- To equip students to examine the contexts of most popular culture elements and the reasons behind their origin

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	define key terminology related to popular culture with a comprehensive understanding of its various aspects and influences	K1-K3
CO2	classify different forms of popular culture	K1-K3
CO3	apply their understanding of popular culture studies to analyze contemporary trends	K1-K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to Popular Culture</u> 1.1 Defining popular culture 1.2 ‘High’ and ‘Low’ Culture	K1-K3	6	1-3
2	<u>Popular Culture in India</u> 2.1 Songs: Arivu: Enjoy Enjaami or any other popular song 2.2 Advertisements: Generation of Care (Vicks) or any other popular ad 2.3 Hashtag Movements: #MeToo or any current social media movement 2.4 Street Art: GuessWho (from Kochi Muziris Biennale)	K1-K3	10	1-3
3	<u>Popular Culture in the Global Context</u> 3.1 Song: Childish Gambino: This is America or any other popular song 3.2 Advertisements: Bodyform’s Fear Going to School Less or any other popular ad 3.3 Stand-up: Hannah Gadsby: <i>Nannete</i> or any other popular stand-up act 3.4 Street Art: Shinya Nishikata: Tokyo 3.5 TV Show: Dan Goor, Michael Schur: Game Night (from <i>Brooklyn Nine-Nine</i>)	K1-K3	10	1-3

BOOKS FOR REFERENCE

Danesi, Marcel. *Popular Culture: Introductory Perspectives*. Fourth ed., Rowman & Littlefield, 2018.

Gokulsing, K. Moti, and Wimala Dissanayake, editors. *Popular Culture in a Globalised India*. Routledge, 2009.

Guins, Rainford, and Omayra Zaragoza Cruz, editors. *Popular Culture: A Reader*. Sage Publications, 2005.

Kasbekar, Asha. *Pop Culture India! Media, Arts, and Lifestyle*. ABC-CLIO Inc., 2006.

Miller, Toby. *The Routledge Companion To Global Popular Culture*. Routledge, 2017.

ONLINE COURSES

Fandom and Popular Culture in the Digital Age Specialization

<https://www.coursera.org/specializations/fandom-popular-culture-digital-age>

The Rise of the Superheroes and their Impact on Pop Culture

<https://www.edx.org/learn/humanities/the-smithsonian-institution-the-rise-of-superheroes-and-their-impact-on-pop-cu>

PATTERN OF ASSESSMENT:

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)

Other Components:

Total marks: 25

Quiz/Presentations/Analysis of any form from popular culture/Analysis of contemporary trends

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End-Semester Examination.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**General Elective Course Offered by the Department of English to
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SYLLABUS

(Effective from the academic year 2023-2024)

ENGLISH FOR ADVERTISING

CODE: 23EL/GE/EA22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To introduce students to the basic concepts in advertising
- To enable students to understand the relationships between market forces and advertising
- To train students to use language creatively and appropriately to create advertisements in the print and broadcast mediums

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COS	DESCRIPTION	CL
CO1	identify and recognise basic advertising concepts	K1
CO2	discuss the relationship between market forces and advertising	K2
CO3	apply concepts learnt innovatively to create advertisements	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction</u> 1.1 Classification of advertisements 1.2 Market segmentation 1.3 Product life-cycle and advertising	K1-K3	6	1-3
2	<u>Print Advertisements</u> 2.1 Parts of a print ad 2.1.1 Kinds of headlines 2.1.2 Kinds of body copy 2.2 Creating print ads	K1-K3	10	1-3
3	<u>Broadcast Advertisements</u> 3.1 Radio ads: Components of radio ads, Writing scripts for radio ads 3.2 Television ads: Components of TV ads, Creating storyboards for TV ads	K1-K3	10	1-3

BOOKS FOR REFERENCE

Brierley, Sean. *The Advertising Handbook*. Routledge, 1995.

Goddard, Angela. *The Language of Advertising*. Routledge, 1998. Ogilvy, David. *Ogilvy on Advertising*. Vintage, 1985.

Toth, Mike et al. *The Art of Advertising*. Aspatore Books, 2003.

Verlegh, Peter et al. Ed. *Advances in Advertising Research (Vol VI). The Digital, The Classic, The Subtle and the Alternative*. Gabler Verlag, 2016.

Warwitz, Claudius. *Location Based Advertising*. Gabler Verlag, 2016.

PATTERN OF ASSESSMENT:

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Rubrics for Evaluation
A	K1	5	Defining target group(s)
B	K2	5	Identifying appropriate language and medium to be used in the advertisement
C	K3	15	Applying appropriate principles of advertising strategies in the advertisement

Other Components:

Total Marks: 25

Portfolio Submission

Cognitive Level	Marks
K1	5
K2	5
K3	15

No End-Semester Examination.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**General Elective Course Offered by the Department of English to
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENGLISH FOR COMPETITIVE EXAMINATIONS

CODE: 23EL/GE/EE22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To train learners to identify errors in sentences and to rewrite them correctly
- To train learners in English language use
- To train learners in reading comprehension, and in writing skills

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	find errors in language samples and correct them.	K1
CO2	demonstrate advanced skills in language use.	K2
CO3	make use of tables, graphs and charts and interpret various kinds of texts, organise ideas, thoughts, opinions and information and construct paragraphs and essays	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Error Spotting and Correction</u> 1.1 Tenses 1.2 Subject-Verb Agreement 1.3 Articles, Prepositions and Conjunctions 1.4 Sentence Structure	K1	12	1
2	<u>Language Use</u> 2.1 Idioms and Phrases 2.2 Phrasal Verbs 2.3 Antonyms and Synonyms 2.4 Vocabulary	K2	6	2
3	<u>Reading and Writing Skills</u> 3.1 Reading Comprehension (Data Interpretation) 3.2 Essay Writing	K1-K3	8	1-3

BOOKS FOR REFERENCE

Aggarwal, R S and Vikas Aggarwal. *Objective General English*. S Chand Publishers, 2016.
Francoise, Grellet. *Developing Reading Skills*. Cambridge University Press, 2010.
Otto, Jespersen. *Essentials of English Grammar*. George Allen & Unwin, 2013.
Prasad, Hari. *Objective English for Competitive Exams*. Tata McGraw Hill, 2010.
Pye, Glennis. *Vocabulary in Practice*. Cambridge University Press, 2005.
Stephen, Mathew. *Guide to Synonyms and Antonyms*. Dominant, 2012.
---. *Everyday Errors in English*. Dominant, 2012.
Swan, Michael. *Practical English Usage*. 4th Edition Oxford University Press, 2017.
Ur, Penny. *Grammar Practice Activities*. Cambridge University Press, 2009.
Wiley. *English: Exam Goalpost for Banking Exams*. Wiley India Pvt Ltd, 2016.

WEB RESOURCES

www.theidioms.com

ONLINE COURSES

English Language for Competitive Examinations <https://nptel.ac.in/courses/109106116>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (from Unit 1)
B	K2	10	5x2=10 (from Unit 2)
C	K3	10	5x2=10 (Data Interpretation)

Other Components:

Grammar/Language/Writing tasks

25 marks

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End Semester Examination.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

NOVEL OF COURTSHIP AND MARRIAGE

CODE: 23EL/UI/CM23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To enable students to undertake independent learning and research
- To enable students to place the institutions of courtship and marriage within a social and historical context
- To equip students with skills, require to study the fictional representation of courtship and marriage

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- demonstrate an understanding of courtship and marriage as sociological and cultural phenomena
- study fictional representations of courtship and marriage by placing them within specific social and historical contexts

Text: Vikram Seth: *A Suitable Boy*

Unit 1

Background

- 1.1 European / Western Conventions of Courtship and Marriage – Its History and Contemporary Views on Them
- 1.2 Indian Conventions of Courtship and Marriage

Unit 2

Socio-Economic And Religious Perspectives

- 2.1 Role of Social Class in Marriages
- 2.2 Caste-Based and Religious Considerations
- 2.3 Arranged Marriages and Marriages by Personal Choice
- 2.4 Rebellion and Conformity

Unit 3

Gender Perspectives

- 3.1 Feminist Perspectives
- 3.2 Sexual / Gender Role

Unit 4

Techniques

- 4.1 Fictional Narrative Techniques

Unit 5

Practical Analysis Tasks

BOOKS FOR REFERENCE

Beauvoir, Simone de. *The Second Sex*. Vintage Books, 1949. Brownstein, Rachel, M. *Becoming a Heroine*. The Viking Press, 1982.

Halwani, Raja. *Philosophy of Love, Sex and Marriage: An Introduction*. Routledge, 2018.

Kakar, Sudhir and Katherina Kakar. *The Indians: Portrait of a People*. Penguin India, 2009.

Lewis, C. S. *The Allegory of Love*. OUP, 1958.

Millet, Kate. *Sexual Politics*. Doubleday, 1970.

Uberoi, Patricia. Ed. *Family, Kinship and Marriage in India*. OUP, 1994.

PATTERN OF ASSESSMENT:

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

4 out of 6 600-word essays

(4 x 25=100)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH XII – ENGLISH

SYLLABUS

(Effective from the academic year 2023-2024)

POETRY OF THE ROMANTIC AGE

CODE:23EL/UI/PR23

CREDITS:3

OBJECTIVES OF THE COURSE

- To enable students to undertake independent learning and research
- To introduce students to the English Romantic Movement and its literature

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- trace the evolution of thought from the Pre-Romantics to the Romantics
- understand the key aspects of the English Romantic Movement
- read, analyse and appreciate poetry written by various Romantic poets

Unit 1

1.1 Introduction to the Romantic Movement

Unit 2

2.1 The Pre-Romantics

Unit 3

3.1 William Wordsworth

Ode on Intimations of Immortality from Early
Recollections of Childhood

3.2 Samuel Taylor Coleridge

Dejection: An Ode

Unit 4

4.1 John Keats

Ode on a Grecian Urn

4.2 Percy Bysshe Shelly

To a Skylark

Unit 5

5.1 George Byron

Don Juan: Canto I (6-64)

BOOKS FOR REFERENCE

Black, Joseph et al. *The Broadview Anthology of Romantic Poetry*. Broadview Press, 2016.
Feldman, Paula. Ed. *British Women Poets of the Romantic Era: An Anthology*. John Hopkins Press, 1997.
Hough, Graham. *The Romantic Poets*. Routledge, 2016.
Simpson, David. *Irony and Authority in Romantic Poetry*. Macmillan Press, 1979.
Wordsworth, Jonathan and Jessica Wordsworth. Eds. *The Penguin Book of Romantic Poetry*. Penguin Books, 2003.

PATTERN OF ASSESSMENT:

End-Semester Examination:

Four out of six 600-word essays

Total Marks: 100

Duration: 3 hours

4 x 25 = 100 marks



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

**B.V.A. DEGREE
VISUAL ARTS
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF FINE ARTS

PROGRAMME DESCRIPTION

In keeping with the commitment of Stella Maris College towards nurturing academic excellence, the Department of Fine Arts offers a teaching-learning-evaluation system that assures optimal educational benefits. The four year B.V.A. programme employs multiple teaching-learning methodologies with specialisation streams in art or design. The first four semesters are devoted to foundation courses in both disciplines. Core courses on drawing have been increased to strengthen skills required in both art and design practice. Specialisation courses are offered from the fifth semester onwards, culminating in an art/design project that is displayed at an annual exhibition.

While studio-based practical courses on art and design nurture the creativity of students, the study of art history provides a strong theoretical framework for their artistic expression. Art history courses are offered in all four years to build a comprehensive knowledge of theory.

Additionally, an interdisciplinary course has been framed in collaboration with the Department of English. The combination of art theory and practice has remained unique to the curriculum and forms the strength of the department's pedagogy. Research is integral to the curriculum and several courses are dependent on critical enquiry.

The four years of study brings the B.V.A. Degree on par with similar programmes offered by other art institutions in India, thereby allowing students to pursue M.F.A. programmes. The fourth year of study in the B.V.A. programme also provides the extra credits required for admission into postgraduate programmes in several foreign universities.

Various curricular and co-curricular activities such as study tours, guest lectures, workshops, field visits, visits to galleries and museums, certificate courses, conferences, seminars, and collaborative projects with reputed institutions are organised or undertaken on a regular basis to enhance and complement the curriculum.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF FINE ARTS

VISION OF THE DEPARTMENT

To empower individuals through art education to be skilled, creative, ethical, and socially responsible.

MISSION OF THE DEPARTMENT

To provide individuals with relevant art education with emphasis on creativity, vocational training, social responsibility and ethical research.

PROGRAMME SPECIFIC OUTCOMES

On successful completion of the B.V.A. Programme, the students will be able to

PSO 1	demonstrate a comprehensive understanding of art history and competency in art/design practice
PSO 2	acquire career/entrepreneurial capacity in their chosen fields of art/design to become empowered individuals
PSO 3	be equipped to use their art/design knowledge and skills critically and creatively to respond to situations
PSO 4	be able to understand, respect and respond to diverse art and cultural practices
PSO 5	apply art/design learning to sensitively and ethically engage with environmental/ cultural/ socio-economic/ political concerns

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086																		
DISTRIBUTION OF CREDITS AND HOURS																		
Bachelor of Visual Arts 2023 - 2024																		
COURSES	I		II		III		IV		V		VI		VII		VIII		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I																		
Language	3	4	3	4	3	4											9	12
Part - II																		
English	3	4	3	4	3	4											9	12
											Total						18	24
Part - III																		
Major Core	4	5	3	4	3	4	3	4	4	5	5	5	5	5	5	5	32	37
			4	5	4	5	5	5	5	5	4	5			5	5	27	30
Major Core Practical	3	4					5	7	5	5			5	7			18	23
							5	7									5	7
Allied Core Practical	5	6	5	6	5	6	5	6									20	24
Major Elective Practical									5	7	5	7	5	7			15	21
											5	7	5	7	9	15	19	29
Int. Dis. Core									5	6							5	6
											Total						141	177
Part - IV																		
GE / Basic Tamil			2	2	2	2			2	2	2	2					8	8
Value Education	2	2			2	2											4	4
Soft Skills (dept.)	3	3			3	3											6	6
Soft Skills (EL)			3	3													3	3
Soft Skills (VE)											3	3					3	3
Environmental Studies	2	2															2	2
											Total						26	26
Part - V																		
STP	1		1														2	0
SAP / SL													2	2			2	2
Remedial / Library				1				1				1		2		4	0	9
Mentoring				1												1	0	2
											Total						4	13
Total	26	30	24	30	25	30	23	30	26	30	24	30	22	30	19	30	189	240

CHOICE BASED CREDIT SYSTEM

[illegible]

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.V.A. DEGREE : BRANCH X-VISUAL ARTS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23FA/ME/D365	Graphic Design I Practical	5	0	0	7	-	50	-	100
OR									
23FA/ME/A365	Painting II Practical								
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
SEMESTER-VII									
23FA/MC/MI75	Modern Art in India	5	5	0	0	3	50	50	100
23FA/MC/P575	Printmaking Practical	5	0	0	7	-	50	-	100
23FA/ME/D475	Textile Product Design Practical	5	0	0	7	-	50	-	100
OR									
23FA/ME/A475	Creative Expressions Practical								
23FA/ME/D575	Graphic Design II Practical	5	0	0	7	-	50	-	100
OR									
23FA/ME/A575	New Media Practical								
	SAP/SL								
SEMESTER-VIII									
23FA/MC/CF85	Indian Craft and Folk Art Traditions	5	5	0	0	3	50	50	100
23FA/MC/AH85	Art and its Histories	5	5	0	0	3	50	50	100
23FA/ME/D689	Project-Design	9	0	0	15	-	50	50	100
OR									
23FA/ME/A689	Project-Art								
General Electives									
23FA/GE/RA22	Recycled Art Practical	2	0	0	2	-	50	-	100
23FA/GE/CP22	Creative Printing Practical	2	0	0	2	-	50	-	100
23FA/GE/FA22	Fabric Art Practical	2	0	0	2	-	50	-	100
23FA/GE/CL22	Collage Practical	2	0	0	2	-	50	-	100
23FA/GE/JA22	Jewellery from Alternate Materials Practical	2	0	0	2	-	50	-	100
The Department will offer one Social Awareness / Service Learning Course									
Social Awareness Courses									
23FA/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23FA/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23FA/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23FA/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23FA/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23FA/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23FA/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23FA/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23FA/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Service Learning Course (specific to the Department)									
23FA/SL/AC52	Art for Children	2	2	0	0	-	50	-	100
Independent Electives									
23FA/UI/FC23	Fashion Concepts, Manufacture and Retail	3	0	0	0	3	-	100	100
23FA/UI/GD23	History of Graphic Design	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF ART HISTORY

CODE: 23FA/MC/FA14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an orientation to art history as an academic discipline
- To introduce the fundamental methods of art history
- To inculcate the use of appropriate vocabulary and critical tools in discussing and writing about works of art
- To introduce the study of art history through formal and contextual analyses

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define key terms used in art history and its methods	K1
CO2	explain the characteristics of media, elements and principles of art	K2
CO3	relate the use of elements and principles of art to select works from art history	K3
CO4	analyse works of art with reference to context, style and meaning	K4
CO5	critique and compare works of art using formal and contextual analyses	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Art History 1.1 Vocabulary of art history – art, artist, aesthetics, subject, form, content 1.2 Art history and related disciplines 1.3 Methods of art history – formal analysis and contextual analysis	K1 – K2	10	1 - 2
2	Formal Analysis - Elements and Principles of Art 2.1 Elements of art – form, line, shape, value, texture, colour, space 2.2 Principles of organisation – contrast, emphasis, balance, scale, variety, harmony, rhythm	K1 – K5	15	1 - 5

UNIT	CONTENT	CL	Hrs	CO
3	Mediums and Forms of Art		(15)	
	3.1 Two-dimensional art - painting, graphic arts, photography, digital art	K1 – K5	9	1 – 5
	3.2 Three-dimensional art - sculpture, assemblage, installation art			
	3.3 Architecture	K1 – K2	6	1 – 2
	3.4 New media-video and film, performance 3.5 Textiles and decorative film			
4	Contextual Analysis	K1 – K5	10	1 - 5
	4.1 Art in context – artist, patron, viewer			
	4.2 Style and meaning – period style, regional style, personal style			
5	Comparative writing		(15)	
	5.1 Organising a comparison – splitting, lumping	K1, K2	3	1 - 2
	5.2 Writing a comparison	K5	12	5

BOOKS FOR STUDY

Barnet, Sylvan. *A Short Guide to Writing About Art*. 9th ed. New Jersey: Prentice Hall, 2007.
 Ocvirk, Otto, G., et. al. *Art Fundamentals: Theory and Practice*, 8th ed. New York: McGraw Hill, 1998.

Kleiner, Fred S., and Christin J. Mamiya. *Gardners' Art through the Ages*. 13th ed. (Introduction only), Belmont: Wadsworth Publishing, 2009.

BOOKS FOR REFERENCE

Berger, John. *Ways of Seeing*. London: Penguin, 1972.

D'Alleva, Anne. *Look! The Fundamentals of Art History*. 3rd ed. New Jersey: Pearson Education, 2004.

Fichner-Rathus, Lois. *Understanding Art*, 6th ed. London: Thomson Wadsworth, 2001.

Gombrich, E H. *The Story of Art*. London: Phaidon, 2010.

Hudson, Suzanne, and Nancy Noonan-Morrissey, *The Art of Writing about Art*. Belmont: Thomson Wadsworth, 2002.

Janson, H.W., and Anthony F. Janson. *History of Art*. 5th ed. New York: Harry N. Abrams. 1997.

Pointon, Marcia. *History of Art: A Students' Handbook*, 4th ed. London: Routledge, 1997.

Pooke, Grant, and Diana Newall. *Art History: The Basics*, Oxon: Routledge, 2008.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 question	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 question	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 question	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 question	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

Mapping of Course Outcomes (Cos) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/MC/FA14												
I	Course Title: FUNDAMENTALS OF ART HISTORY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	1	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	1	-	-	3	3	3	3	1
CO 3	3	3	3	3	3	1	2	1	3	3	3	3	3
CO 4	3	3	3	3	3	1	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	1	1	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

DRAWING I PRACTICAL

CODE: 23FA/MC/P113

CREDITS: 3

L T P: 0 0 4

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable an understanding of freehand drawing through observation
- To enable an understanding of line and contour
- To enable comprehension of form and space
- To impart skills in using drawing media to render tone, texture, and surfaces

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	draw contours and forms using expressive, modeling, and calligraphic lines	K1
CO2	demonstrate skills in using drawing media and gesture drawing	K2
CO3	draw and render simple still-life compositions and out-door studies	K3
CO4	depict two-dimensional and three-dimensional forms with light and shade	K4
CO5	render still-life compositions using a suitable drawing media to capture different textures	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	The Drawing Process	K1	3	1
	1.1 Seeing, visualizing, expressing			
	1.2 Drawing media	K1-K2	7	1 - 2
	1.3 Qualities of line: expressive lines, modeling lines, calligraphic lines			

UNIT	CONTENT	CL	Hrs	CO
2	Contour Drawing 2.1 Gesture drawing 2.2 Imitational drawing 2.3 Cross-contour drawing	K3 – K6	10	3 - 5
3	Form and Space 3.1 Form 3.2 Positive and negative space 3.3 Thumbnails, grids, and composition	K3 – K6	10	3 - 5
4	Tone and Value 4.1 Basics of Light and Shadow 4.2 Rendering Techniques-shading, hatching, squiggles, stippling 4.3 Tonal value scale 4.4 High key, medium key, low key	K3 – K6	12	3 - 5
5	Texture and Surface 5.1 Visual texture 5.2 Transparent, translucent, reflective surfaces	K3 – K6	10	3 - 5

BOOKS FOR REFERENCE

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Curnow, Vera. *The Best of Coloured Pencil - Vol 5*. Massachusetts: Quarry – Rockport, 1999.

Douet, Valerie C., ed. *Drawing for Pleasure*. Kent: Search, 2001.

Gail, Angela. *Drawing: A Step-by-Step Guide to Drawing Techniques*. Twickenham: Tiger Books International, 1997.

Guptill, Arthur. *Freehand Drawing Self-Taught*. New York: Watson Guptill, 1984.

Henn, John. *Introduction to Painting and Drawing*. Hertfordshire: Eagle Editions Ltd., 2002.

Huntly, Moira. *The Artist's Drawing Book*. Devon: David and Charles, 1994.

Mulick, Milind, *Sketckbook*. Pune: Jyotsna Prakshan, 2007.

Sidaway, Ian, and Sarah Hoggett. *The Practical Encyclopedia of Drawing*. Leicestershire: Anne's Publishing, 2012.

Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

Willsher, Aimee. *How to Draw Pets: A Step-by-Step Guide*. London: Arcturus Publishing, 2017.

Woods, Michael. *Pencil Drawing*. New York: Dover, 1987.

PATTERN OF ASSESSMENT

Continuous Assessment: 50 marks

Classwork 40 marks
Assignments 10 marks

Cognitive Level	Marks	Rubrics for evaluation of classwork and assignments
K1 - K4	25	Use of techniques
K5, K6	25	Drawing skills

End Semester Examination Total Marks: 100 Duration: 3 Hours

Question Paper Pattern

Rubrics for evaluation				
Section	Cognitive Level	Marks	Hours	Pattern
A	K1 - K4	25	1	Exercise based on observation and rendering
B	K5, K6	75	2	Still life composition

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/MC/P113												
I	Course Title: Drawing I Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 2	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 3	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 4	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 5	3	3	3	1	3	2	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

PERSPECTIVE DRAWING PRACTICAL

CODE: 23FA/AC/P115

CREDITS: 5

LTP: 0 0 6

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide an understanding of the visual elements of form
- To enable awareness of pictorial drawing
- To provide an in-depth knowledge of projections and linear perspective
- To enable the drawing of compositions with spatial relationships

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	sketch forms using visual elements	K1
CO2	draw using linear perspective	K2
CO3	draw orthographic and isometric projections of simple objects	K3
CO4	demonstrate skills in drawing rectilinear and curvilinear forms from any viewpoint	K4
CO5	establish depth and relationships in drawn forms	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Visual Elements of Form 1.1 Point, line, plane, shape	K1	2	1
	1.2 Volume: space, depth, distance	K1, K2	3	1
2	Linear Perspective – Rectilinear & Curvilinear forms 2.1 Vanishing points, Horizons 2.2 One-point perspective 2.3 Two-point perspective 2.4 Three-point perspective	K1 – K5	20	1 - 5
3	Approaches to Pictorial Drawing 3.1 Projections: perpendicular, parallel, orthographic, isometric	K1 – K6	18	1 - 5
	3.2 True sizes and shapes	K2 – K6	5	

UNIT	CONTENT	CL	Hrs	CO
4	Drawing View Points 4.1 Plan, elevation and section views 4.2 Dimensional views using crating	K1 – K6	15	2 - 5
5	Visual Depth Cues 5.1 Proportions and scale 5.2 Overlapping 5.3 Aerial perspective 5.4 Fore-shortening	K2 – K6	15	2- 5

BOOKS FOR REFERENCE

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Cole, Rex Vicat. *Perspective for Artists*. New York. Dover Publications. 1976

Coulin, Claudius. *Step-by-Step Perspective Drawing for Architects, Drafters and Designers*. New York: Van Nostrand Reinhold Company Inc. 1983.

Gail, Angela. *Drawing: A Step-by-Step Guide to Drawing Techniques*. Twickenham: Tiger Books International, 1997.

Sidaway, Ian and Hoggett, Sarah. *The practical Encyclopedia of Drawing*. London: Hermes House, 2012.

Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

Wallschlaegar, Charles and Busic-Snyder, Cynthia. *Basic Visual Concepts and Principles*. United States of America. Wm. C. Brown Publishers. 1992.

PATTERN OF ASSESSMENT

Continuous Assessment:	50 marks
Classwork	40 marks
Assignments	10 marks

Cognitive Level	Marks	Rubrics for evaluation of classwork and assignments
K1 - K4	25	Use of techniques
K5, K6	25	Drawing skills

End Semester Examination

Total Marks: 100

Duration: 3 Hours

Question Paper Pattern

Rubrics for evaluation				
Section	Cognitive Level	Marks	Hours	Pattern
A	K1 - K4	25	1	Exercise based on observation and rendering
B	K5, K6	75	2	Still life composition

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/AC/P115												
I	Course Title: Perspective Drawing Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	1	2	1	1	1	3	3	3	2	1
CO 2	3	3	1	1	1	2	1	1	3	3	3	2	2
CO 3	2	3	3	1	3	1	1	1	3	3	3	1	1
CO 4	3	3	2	1	3	2	1	1	3	3	3	2	1
CO 5	3	3	1	1	3	2	1	1	3	3	3	1	1
High Correlation: 3				Moderate Correlation: 2					Low Correlation: 1				

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23FA/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23FA/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

ART OF INDIGENOUS CULTURES

CODE: 23FA/MC/IC23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide an awareness of prehistoric art and architecture
- To provide an awareness of the visual arts and artefacts of the indigenous arts of the Americas, Africa and Oceania
- To provide an insight into indigenous art expressions outside Asia
- To build an understanding of how indigenous artistic expressions inspired modern art movements

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the art of indigenous cultures of the Americas, Africa and Oceania	K1
CO2	explain the formal qualities and style in the art of indigenous cultures	K2
CO3	apply contextual analysis to understand the creation of prehistoric art and architecture	K3
CO4	critically analyse the visual language of indigenous art as a means of representation and expression	K4
CO5	evaluate works of art by applying comparative modes	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Prehistoric Art 1.1 Sculpture: Human with Feline Head; Nude Woman of Willendorf; Woman Holding a Bison Horn; Two Bison, cave at Le Tuc d'Audoubert; Bison with Turned Head, La Madeleine 1.2 Painting: Bison, Altamira; Spotted Horses, Pech-Merle; Hall of the Bulls, Lascaux; Aurochs, Horses and Rhinoceroses, Chauvet cave 1.3 Architecture: site of Jericho; Çatal Höyük; Stonehenge	K1 - K5	6	1-5
2	Meso- and South American cultures 2.1 Meso America before 1300 2.1.1 Olmec – Colossal head, Ceremonial axe, Drinker from Colima 2.1.2 Teotihuacan – temple-pyramid-plaza layout; goddess mural from Tetitla complex 2.1.3 Maya – Ball court and Stele D at Copan, Temple of the Giant Jaguar, Tikal; Ball player from Jaina Island, Bonampak murals, Castillo, Caracol and Chac-mool at Chichen Itza 2.1.4 Toltec – Colossal atlantids, Tula 2.2 Meso America after 1300 2.2.1 Mixteca-Puebla – Borgia codex 2.2.2 Aztec – Great Temple and city plan, Tenochtitlan, Coyolxauhqui, Coatlicue 2.3 South America before 1300 2.3.1 Chavin – Raimondi stele 2.3.2 Paracas – Funerary mantle 2.3.3 Nasca – Bridge spouted vessel, Nasca Lines 2.3.4 Moche – Stirrup-spout vessel, ear ornament from Sipan 2.3.5 Tiwanaku – Gateway of the Sun 2.3.6 Wari – Lima tapestry 2.4 South America after 1300 2.4.1 Inka – Machu Picchu; Temple of the Sun, Cuzco	K1 - K5	20	1-5

UNIT	CONTENT	CL	Hrs	CO
3	North American cultures 3.1 Before 1300 3.1.1 Eskimo – Ipiutak burial mask 3.1.2 Woodlands – Adena pipe, Mississippian Serpent Mound, incised gorget with running warrior 3.1.3 Southwest – Mimbres black and white bowl, Ancestral Puebloan Cliff Palace 3.2 After 1300 3.2.1 Southwest – Navajo sand painting, Navajo weaving, Hopi katsina, Pueblo blackware pottery 3.2.2 Northwest – Kwakiutl mask, Tlingit mask, Haida totem poles, Chilkat blanket	K1 - K5	10	1-5
4	Africa 4.1 Before 1800 4.1.1 Terracotta – Nok head, Lydenburg head, Jenne figures 4.1.2 Metal – Equestrian figure, Igbo-Ukwu; King, Ile-Ife; Ikegobo, Benin 4.2 After 1800 4.2.1 Wood and other materials – Reliquary guardian figures from Fang and Kota; Power images from Kongo; Seated couple, Dogon; Bush spirits, Baule; Benin altar; Akua’ba, Asante; Akure veranda post, Yoruba 4.2.2 Masks and masquerades – Senufo, Mende, Dogon, Kuba	K1 - K5	10	1-5
5	Oceania 5.1 Melanesia – Yam masks, Abelam; Bisj poles, Asmat; Hevehe masks, Elema 5.2 Micronesia and Polynesia – Men’s ceremonial house and Dilukai, Belau; Barkcloth, Head of a staff god, Feather cloak from Hawaii, Kuka’ilimoku, Moai figures, Easter Island 5.3 New Zealand and Australia – Maori meetinghouse, Aboriginal Dreaming bark paintings	K1 - K5	6	1-5

BOOK FOR STUDY

Kleiner, Fred S. *Gardners’ Art through the Ages*. 13th ed., Belmont: Wadsworth Publishing, 2009.

BOOKS FOR REFERENCE

Adam, Leonhard. *Primitive Art*. London: Cassell, 1963.

Burland, Cottie. *North American Indian Mythology*. Middlesex: Hamlyn, 1965.

Denis, Valentin, and T. E. de Vries. *The World's Art: Renaissance to Modern Art, Oriental and Primitive Art*. Vol. 2. London: Collins, 1962.

Huyghe, Rene, ed. *Larousse Encyclopaedia of Prehistoric and Ancient Art*. Art and Mankind series. London: Hamlyn, 1970.

Janson, H. W., and Anthony F. Janson. *History of Art*. 5th ed. New York: Harry N. Abrams. 1997.

Lommel, Andreas. *Prehistoric and Primitive Man*. Landmarks of the World's Art series. London: Paul Hamlyn, 1966.

Morphy, Howard, and Morgan Perkins, eds. *The Anthropology of Art: A Reader*. Oxford: Blackwell, 2006.

Nicholson, Krene. *Mexican and Central American Mythology*. London: Paul Hamlyn, 1967.

Osborne, Harold. *South American Mythology*. London: Paul Hamlyn, 1968.

Parrinder, Geoffrey. *African Mythology*. London: Paul Hamlyn, 1967.

Poignant, Roslyn. *Oceanic Mythology*. London: Paul Hamlyn, 1967.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
Total		100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/IC23												
II	Course Title: Art of Indigenous Cultures												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	1	3	3	3	3	3	3	1
CO 2	3	3	3	3	3	1	3	3	3	3	3	3	2
CO 3	3	3	3	3	3	1	3	3	3	3	3	3	1
CO 4	3	3	3	3	3	1	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	1	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

ANCIENT TO MEDIEVAL ART IN THE WEST

CODE: 23FA/MC/AM24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable a critical appreciation of art and architecture from the Ancient world and the Classical and Medieval periods of the west
- To provide a historical survey of Western art from the Ancient, Classical and Medieval periods with regard to artistic styles, structures and time periods
- To provide a general overview of the history and development of western visual art from the ancient through to the medieval period, and its historical, social, cultural, religious, and political contexts
- To inculcate an understanding and appreciation of the art forms, iconography, styles, and techniques of western visual art as expressed in painting, sculpture, and architecture

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define terms / list artworks and styles of the Ancient, Classical and Medieval periods in Europe	K1
CO2	explain the styles of artworks	K2
CO3	apply formal analysis to artworks	K3
CO4	analyse artworks from ideology and social contexts	K4
CO5	critique and compare artworks	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Mesopotamian Art and Egyptian Art 1.1 Mesopotamian Art 1.1.1 Sumerian – Warka Vase, Uruk; Standard of Ur; Ziggurat at Ur; Seated Gudea, Babylonian – Stele of Hammurabi, Ishtar Gate, Babylon 1.1.2 Assyrian – Lamassu, Ashurbanipal Hunting Lions 1.2 Egyptian art 1.2.1 Architecture: mastaba; Stepped Pyramid of Djoser, Saqqara; Great Pyramids, Gizeh; Pylon Temple of Amen-Re, Karnak 1.2.2 Sculpture: Palette of King Narmer, Hierakonpolis; Khafre Enthroned, Gizeh; Seated Scribe, Saqqara; Akhenaton, Karnak; Nefertiti, Amarna 1.2.3 Painting: Tomb of Nebamun – Fowling Scene, Musicians and Dancers	K1- K5	12	1-5
2	Aegean and Greek Art 2.1 Aegean art 2.1.1 Cycladic – Woman from Syros, Lyre Player from Keros 2.1.2 Minoan – Palace at Knossos, Bull Leaping fresco, Harvester's vase 2.1.3 Mycenaean – Corbelled gallery, Tiryns; Lion Gate, Mycenae; Treasury of Atreus 2.2 Greek art 2.2.1 Vase painting: Geometric Krater, Dipylon Cemetery, Athens; Exekias – Achilles and Ajax Playing a Dice Game; Euphronios – Herakles wrestling Antaios 2.2.2 Sculpture: Mantiklos Apollo, Thebes; Kouros, Metropolitan Museum; Kroisos, Anavysos; Peplos Kore; Kritios Boy; Charioteer, Sanctuary of Apollo, Delphi; Myron – Diskobolos; Polykleitos – Doryphoros; Parthenon sculptures; Praxiteles – Hermes and the Infant Dionysos, Aphrodite of Knidos; Lysippos – Apoxyomenos, Weary Herakles; Nike of Samothrace; Laocoön and his Sons 2.2.3 Architecture: Doric, Ionic and Corinthian orders; temple plans; Parthenon	K1- K5	20	1-5

UNIT	CONTENT	CL	Hrs	CO
3	Etruscan and Roman Art 3.1 Etruscan art: Cerveteri sarcophagus, Tomb of the Leopards, Capitoline wolf, Chimera of Arezzo, Aule Metele 3.2 Roman art 3.2.1 Architecture: concrete construction and arch system, Colosseum; Pantheon; Baths of Caracalla; Arch of Titus; Forum of Trajan 3.2.2 Sculpture: Procession of the Imperial Family, Ara Pacis Augustae; Head of a Roman Patrician, Otricoli; Portrait of Augustus as General, Prima Porta; portrait of Caracalla; Equestrian Statue of Marcus Aurelius; Portraits of the Four Tetrarchs; Portrait of Constantine	K1- K5	15	1-5
4	Early Christian and Byzantine Art 4.1 Early Christian art 4.1.1 Architecture: catacombs; rectilinear and central church plans; Old St. Peter's Basilica, Rome; Santa Costanza, Rome 4.1.2 Mosaic: technique; The Parting of Abraham and Lot, Santa Maria Maggiore, Rome; Christ as the Good Shepherd, Mausoleum of Galla Placidia, Ravenna; Miracle of the Loaves and Fishes, Sant' Apollinare Nuovo, Ravenna 4.2 Byzantine art 4.2.1 Architecture: Hagia Sophia, Istanbul; San Vitale, Ravenna 4.2.2 Mosaics: apse mosaics from San Vitale, Ravenna; Crucifixion, Church of the Dormition, Daphne 4.2.3 Painting: Vladimir Virgin, Tretyakov Gallery	K1- K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Romanesque and Gothic Art 5.1 Romanesque art 5.1.1 Architecture: structural innovations in church architecture; Saint-Sernin, Toulouse 5.1.2 Portal sculpture: Gislebertus – Last Judgement, west tympanum of St. Lazare, Autun 5.2 Gothic art 5.2.1 Architecture: structural innovations in church architecture; Chartres Cathedral, Salisbury Cathedral 5.2.2 Sculpture: Royal Portal and Porch of Confessors, Chartres Cathedral 5.2.3 Stained glass: technique; Notre Dame de la Belle Verrière, Chartres Cathedral	K1- K5	08	1-5

BOOK FOR STUDY

Kleiner, Fred S. *Gardners' Art through the Ages*. 13th ed., Belmont: Wadsworth Publishing, 2009.

BOOKS FOR REFERENCE

Cason, Lionel. *Ancient Egypt*. Great Ages of Man: A History of the World's Cultures. Amsterdam: Time-Life Books, 1982.

Elsner, Jaś. *Imperial Rome and Christian Triumph*. Oxford: Oxford University Press, 1988.

Janson, H.W., and Anthony F. Jansen. *History of Art*. New York: Harry N. Abrams, Inc, 1997.

Kramer, Samuel Noah. *Cradle of Civilisation*. Great Ages of Man: A History of the World's Cultures. Amsterdam: Time-Life Books, 1983.

Palmer, J. C. *Sir Banister Fletcher's A History of Architecture*. London: Athlone Press, 1975.

Tömöry, Edith. *A History of Fine Arts in India and the West*. Chennai: Orient Blackswan, 2009.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
Total		100	9	14

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/AM24												
II	Course Title: Ancient to Medieval Art in the West												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	2	1	1	2	1	3	1	2	3	1
CO 2	3	3	2	3	2	1	2	3	2	2	2	3	2
CO 3	3	3	2	3	3	1	2	3	3	2	3	3	2
CO 4	3	3	3	3	3	2	2	3	3	2	3	3	3
CO 5	3	3	3	3	3	2	2	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

DRAWING II PRACTICAL

CODE: 23FA/AC/P225

CREDITS: 5

L T P: 0 0 6

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enhance drawing skills
- To strengthen rendering skills in various media using various techniques
- To enable an in-depth understanding of light and colour
- To enable the drawing of complex compositions

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall concepts in academic drawing and rendering	K1
CO2	demonstrate an understanding of forms in colour and light; render forms in colour and light	K2
CO3	develop competency in the use of drawing media and techniques	K3
CO4	demonstrate skills in drawing rectilinear and curvilinear forms from any viewpoint	K4
CO5	create compositions of static forms and forms in motion	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Colour Studies and Light 1.1 Direction 1.2 Intensity 1.3 Distribution 1.4 Radiance 1.5 Reflection 1.6 Cast Shadows	K1 - K4	15	1-4
2	Media Exploration and Rendering Techniques	K1 - K6	5	1-5
3	Principles of Composition 3.1 Balance 3.2 Emphasis 3.3 Movement	K1 - K4	13	1-4

UNIT	CONTENT	CL	Hrs	CO
4	Group Compositions 4.1 Overlapping 4.2 Scaling 4.3 Grouping	K1 - K4	20	1-4
5	Complex Forms and Drawing in Motion 5.1 Continuous movement 5.2 Repetitive movement	K1 - K6	25	1-5

GUIDELINES

- The prescribed media are graphite, charcoal, colour pencil, oil pastel, dry pastel, pen and marker pen

BOOKS FOR REFERENCE

Carrier, Francisco Ascensio. *Pastels for Beginners*. Cologne: Konemann, 1999.

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Curnow, Vera. *The Best of Coloured Pencil - Vol 5*. Massachusetts: Quarry – Rockport, 1999.

Douet, Valerie C., ed. *Drawing for Pleasure*. Kent: Search, 2001.

Gail, Angela. *Drawing: A Step-by-Step Guide to Drawing Techniques*. Twickenham: Tiger Books International, 1997.

Guptill, Arthur. *Freehand Drawing Self Taught*. New York: Watson Guptill, 1984.

Mulick, Milind, *Sketchbook*. Pune: Jyotsna Prakshan, 2007.

Rodwell, Jenny. *Drawing*. Middlesex: Hamlyn Publishing, 1988.

Sidaway, Ian and Hoggett, Sarah. *The Practical Encyclopedia of Drawing*. London: Hermes House, 2012.

Tupe, Shivaji. *Sketchbook*. Pune: Jyotsna Prakashan, 2007.

Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

Woods, Michael. *Pencil Drawing*. New York: Dover, 1987.

Yot, Richard. *Light for Visual Artists*. London: Laurence King Publishing Ltd. 2013

PATTERN OF ASSESSMENT

Continuous Assessment:	50 marks
Classwork	40 marks
Assignments	10 marks

Rubrics for evaluation of classworks and assignments	Marks	Cognitive Level
Use of media and techniques	25	K1 - K4
Drawing skills	25	K5, K6

End Semester Examination **Total Marks: 100** **Duration: 3 Hours**
Question Paper Pattern

Rubrics for evaluation				
Section	Cognitive Level	Marks	Hours	Pattern
A	K1 - K4	25	1	Exercise based on observation and rendering
B	K5, K6	75	2	Still life composition

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/AC/P225												
II	Course Title: Drawing II Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 2	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 3	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 4	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 5	3	3	3	1	3	2	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.V.A. / B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.V.A. DEGREE: BRANCH X VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023–2024)

BUDDHIST ARCHITECTURE AND SCULPTURE IN INDIA

CODE: 23FA/MC/BA33

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce the beginnings of Indian art and Vedic philosophy
- To enable an understanding of Buddhist philosophy and its impact on artistic expression
- To provide an understanding of the Indian origins of Buddhist art
- To study the stylistic variations in Hinayana and Mahayana Buddhist architecture and sculpture

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define key terms used in Indus Valley and Buddhist art	K1
CO2	demonstrate an understanding of Buddhist philosophy and its impact on artistic expression	K2
CO3	identify the development of Indus Valley and Buddhist architecture and sculpture	K3
CO4	analyse the characteristics of Buddhist art and classify the stylistic differences between the Hinayana and Mahayana phases	K4
CO5	critically evaluate pre-historic, Indus, Buddhist architecture and sculpture using contextual and comparative modes	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	Beginnings of Indian Art 1.1 Prehistoric cave paintings of Bhimbetka 1.2 Art of the Indus Valley 1.2.1 Architecture: Great Bath, Granary, Mohenjodaro; Lothal Dock Layout 1.2.2 Sculpture: Seals, Dancing Girl, Bearded Man	K1 - K5	7	1-5
2	Introduction to Buddhism 2.1 Vedic period and its philosophy Buddhist philosophy and symbolism	K1 - K5	3	1-5
3	Architecture: Hinayana Phase 3.1 Stupa: Stupa No.1, Sanchi, Amaravathi 3.2 Chaitya: Lomas Rishi, Bhaja, Nasik, Ajanta Caves 9 and 10 3.3 Vihara: Ajanta Caves 8, 12 & 13	K1 - K5	12	1-5
4	Architecture: Mahayana Phase 4.1 Chaitya: Ajanta Caves 19 & 26; Karle 4.2 Vihara: Ajanta Caves 1, 16, 17, 21; Cave No. 12, (Tin Thal), Ellora	K1 - K5	10	1-5
5	Sculpture 5.1 Stambha: Ashoka Pillar, Bull capital, Rampurva; Lion capital, Lauriya Nandangarh; Lion capital, Sarnath 5.2 Yaksha, Parkham; Yakshi (Chulakoka Devata), Yaksha (Kubera), Bharhut; Yakshi, Didarganj 5.3 Vedika: Ruru jataka, Mahakapi jataka, Dream of Queen Maya, Purchase of Jetavanarama Monastery, Bharhut; Subduing of the Mad Elephant Nalagiri, Mandhata jataka, Veneration of the Begging Bowl, Amaravathi 5.4 Torana: Evolution of capitals, Sanchi Stupa No.1; The Enlightenment, Western gateway; The Great Departure, Conversion of Kashyap Brothers, Salabhanjika/Yakshi, Eastern gateway 5.5 Standing Buddha, Hoti Mardan, Standing Buddha, Sarnath, Seated Buddha, Katra, Seated Buddha, Sarnath	K1 - K5	20	1-5

BOOKS FOR STUDY

Brown, Percy. *Indian Architecture Vol. I: Buddhist and Hindu*. Bombay: D.B. Taraporevala Sons, 1971.

Harle, J.C. *The Art and Architecture of the Indian Subcontinent*. Middlesex: The Pelican History of Art Series, Penguin, 1986.
Tömöry, Edith. *A History of Fine Arts in India and the West*. Chennai: Orient Blackswan, 2009.

BOOKS FOR REFERENCE

Cunningham, A. *The Stupa at Bharhut*. Varanasi: Indological Book House, 1962.
Dehejia, Vidya. *Early Buddhist Rock Temples*. London: Thames and Hudson, 1972.
Dehejia, Vidya. *Indian Art*. London: Phaidon, 1997.
Fisher, Robert E. *Buddhist Art and Architecture*. London: Thames & Hudson, 2006.
Harle, J.C. *Gupta Sculpture*. Oxford: Clarendon, 1974.
Pant, Pushesh. *Ajanta and Ellora Cave Temples of Ancient India*. Holland: Roli, 2007.
Rao, S.R. *Lothal and the Indus Civilisation*. London: Asia Publishing House, 1973.
Talim, Meena. *Buddhist Art*. 2 Vols. Delhi: Buddhist World Press, 2014.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (10)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/BA33												
III	Course Title: BUDDHIST ARCHITECTURE AND SCULPTURE IN INDIA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	1	1	1	1	3	2	2	3	3
CO 2	3	3	3	2	1	1	1	2	3	3	3	3	3
CO 3	3	3	3	2	1	1	1	2	3	3	3	3	3
CO 4	3	3	3	2	1	1	1	1	3	3	3	3	3
CO 5	3	3	3	2	1	1	1	2	3	3	3	3	3

High Correlation: 3**Moderate Correlation: 2****Low Correlation: 1**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023–2024)

ART IN EUROPE (1280-1790)

CODE: 23FA/MC/AE34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an understanding of the concepts and characteristics of painting and sculpture of the Renaissance, Mannerist, Baroque and Rococo periods
- To provide awareness of the major stylistic developments in European art between the late thirteenth and eighteenth centuries and how they reflect trends and concerns in the societies in which they were made
- To create an awareness of the presence of successful women artists in a male-dominated era

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall/ list/ define, artists, styles, terms and characteristics in European art	K1
CO2	explain characteristics of artworks, styles, and techniques	K2
CO3	illustrate the contribution of major artists and sculptors	K3
CO4	critically appraise works of art	K4
CO5	analyse / compare/ contrast artworks	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Movement away from Medievalism in Art 1.1 Cimabue, Giotto de Bondone, Duccio di Buoninsegna	K1 - K5	5	1-2
2	Early Renaissance 2.1 Italian Renaissance: Lorenzo Ghiberti, Donatello, Masaccio, Sandro Botticelli, Piero della Francesca 2.2 Northern Renaissance: Jan van Eyck, Hieronymus Bosch	K1 - K5	10	1-5
3	High Renaissance and Mannerism 3.1 High Renaissance: Italy: Leonardo da Vinci, Michelangelo, Raphael, Titian, Albrecht Dürer, Sofonisba Anguissola 3.2 Mannerism: Bronzino, El Greco	K1 - K5	25	1-5

UNIT	CONTENT	CL	Hrs	CO
4	Baroque 4.1 Italy: Gianlorenzo Bernini, Caravaggio, Artemisia Gentileschi 4.2 Spain: Diego Velasquez 4.3 Flanders: Peter Paul Rubens 4.4 Holland: Rembrandt van Rijn, Jan Vermeer 4.5 France: Nicolas Poussin, Claude Lorrain	K1 - K5	20	1-5
5	Rococo and Taste for the 'Natural' 5.1 Rococo: Antoine Watteau 5.2 Taste for the 'Natural': Jean-Baptiste Simeon Chardin, William Hogarth, Elisabeth Louise Vigee-Lebrun, Thomas Gainsborough	K1 - K5	5	1-5

BOOKS FOR STUDY

Kleiner, Fred S. *Gardners' Art Through the Ages*. 13th ed. Belmont: Wadsworth Publishing, 2009.

BOOKS FOR REFERENCE

Copplestone, Trewin. *Michelangelo*. Kent: Grange Books. 2002.

Chadwick, Whitney. *Women, Art and Society*, 5th ed. World of Art series. London: Thames and Hudson, 2012.

Craske, Matthew. *Art in Europe 1700-1830*. New York: Oxford University Press. 1997.

Dewald, Ernest T. *Italian Painting 1200-1600*. New York: Holt, Rinehart and Winston, 1961.

Field, D. M. *Leonardo Da Vinci*. United Kingdom: Grange Books. 2002.

Gregory, Clive, and Sue Lyon, ed. *The High Renaissance*. Great Artists of the Western World series, New York: Marshall Cavendish, 1987.

Gregory, Clive, and Sue Lyon, ed. *The Early Renaissance*. Great Artists of the Western World series. New York: Marshall Cavendish, 1988.

Kitson, Michael. *The Age of Baroque*. Landmarks of the World's Art series. London: Paul Hamlyn, 1967.

Muntz, Eugene. *Leonardo Da Vinci: Artist, Thinker and Man of Science*. vol. 1. Kent: Grange Books. 2006.

Shearman, John. *Mannerism*. Harmondsworth: Penguin, 1967.

Tömöry, Edith. *A History of Fine Arts in India and the West*. Chennai: Orient Blackswan, 2009.

Welch, Evelyn. *Art and Society in Italy 1350-1500*. New York: Oxford University Press. 1997.

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 1½ Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/AE34												
III	Course Title: ART IN EUROPE (1280-1790)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	1	1	1	1	3	2	2	3	3
CO 2	3	3	3	2	1	1	1	2	3	3	3	3	3
CO 3	3	3	3	2	1	1	1	2	3	3	3	3	3
CO 4	3	3	3	2	1	1	1	1	3	3	3	3	3
CO 5	3	3	3	2	1	1	1	2	3	3	3	3	3

High Correlation: 3**Moderate Correlation: 2****Low Correlation: 1**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

BASIC PAINTING PRACTICAL

CODE: 23FA/AC/P335

CREDITS: 5

L T P : 0 0 6

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide an exposure to basic painting procedures and techniques using watercolours, inks, oils, acrylics and mixed media
- To enable an awareness of colour theory and colour mixing
- To inculcate an understanding of painting light, shadow and reflections

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explore the use of painting media in a range of techniques	K1
CO2	understand colour theory and colour mixing in painting	K2
CO3	render light, shadow, texture and reflections using painting media	K3
CO4	develop compositions using painting media	K4
CO5	paint still-life and outdoor compositions using various media and techniques	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Colour Theory and Relationships	K1 - K4	10	1-4
2	Watercolour & Inks Wash, wet-on-dry, wet-on-wet, brush painting, masking techniques	K1 - K6	20	1-5

UNIT	CONTENT	CL	Hrs	CO
3	Oils Glazing, alla prima, impasto, knife painting	K1 - K6	15	1-5
4	Acrylics Glazing, alla prima, impasto, knife painting, opaque wash	K1 - K6	20	1-5
5	Mixed Media	K3 - K6	13	3-5

GUIDELINES

- Demonstration of techniques that have not been prescribed in the syllabus may be conducted
- Peer review is to be conducted periodically

BOOKS FOR REFERENCE

Felder, Eugene. *Still Life Fundamentals*. London: Kandour, 1956.
Fig, Joe. *Inside the Painter's Studio*. New York: Princeton Architectural Press, 2009.
Harrison, Hazel. *Art School, How to Paint and Draw*. London: Hermes House, 2009.
Herniman, Barry. *Painting Mood and Atmosphere*. Kent: Search Press, 2004.
King, Jennifer, ed. *Work Small, Learn Big! Sketching with Pen & Watercolor*. Nevada: International Artist Publishing, 2003.
Mulick, Milind. *Watercolour*. Pune: Jyotsna Prakashan, 2000.
Parramon, Jose M. *Basic Techniques and Exercises: Painting Landscape and Still Lifes in Watercolour*. New York: Watson - Guptill Publications, 1998.
Sidaway, Ian. *Mastering the Art of Oils, Acrylics and Gouache*. London: Hermes House, 2014.
Simpson, Ian, ed. *Complete Painting Course*, London: HarperCollins Publishers, 1993.
Tappenden, Curtis, et al. *Complete Art Foundation Course*. London: Octopus Publishing, 2006.
Webb, David. *Still Life in Watercolour*, Kent: Search Press, 2005.

PATTERN OF ASSESSMENT

Continuous Assessment:	50 marks
Classwork	40 marks
Assignments	10 marks

Rubrics for evaluation of classworks and assignments	Marks	Cognitive Level
Use of media and techniques	25	K1 - K4
Painting skills	25	K5, K6

End Semester Examination

Total Marks: 100

Duration: 3 Hours

Question Paper Pattern

Rubrics for evaluation of classworks and assignments				
Section	Cognitive Level	Marks	Hours	Pattern
A	K1 - K4	25	1	Exercise based on observation & Painting
B	K5, K6	75	2	Still life composition

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/AC/P335												
III	Course Title: BASIC PAINTING PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	2	3	3	3	3	2
CO 2	3	3	3	2	3	2	2	2	3	3	3	3	2
CO 3	3	3	3	2	3	2	2	2	3	3	3	3	2
CO 4	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23FA/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group discussions
Group presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

ART IN EUROPE (1780-1910)

CODE: 23FA/MC/AE43

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce key developments in the late eighteenth and nineteenth-centuries, and their impact on European art
- To introduce the beginnings of modernism in European art
- To identify key works and significant artists of nineteenth century European art
- To understand the basic concepts, characteristics and styles of nineteenth century European art
- To highlight the role of women artists of the period

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list/define/state the development of eighteenth and nineteenth century art in Europe	K1
CO2	explain the characteristics and movements in late eighteenth and nineteenth-century Western art	K2
CO3	place major artworks and artists in their cultural, social and historical context	K3
CO4	analyse the styles of influential artists and movements through critiques of artworks	K4
CO5	evaluate (compare and contrast) art works and styles in eighteenth and nineteenth-century art	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Age of Enlightenment 1.1 Empiricism and progress 1.2 Science and technology: Industrial Revolution	K1, K2	2	1 - 2

UNIT	CONTENT	CL	Hrs	CO
2	Neo-Classicism and Romanticism 2.1 Revival of interest in Classicism: Angelica Kauffman 2.2 Neo-Classicism: Jacques Louis David, Antonio Canova, Jean-Auguste-Dominique Ingres 2.3 Romanticism: William Blake, Francisco Goya, Theodore Gericault, Eugene Delacroix, John Constable, Joseph Turner	K1 - K5	12	1 - 5
3	The Rise of Modernism 3.1 Realism: Gustave Courbet, Jean Francois Millet, Honore Daumier, Edouard Manet, Jean-Baptiste Carpeaux, Auguste Rodin 3.2 Pre-Raphaelite Brotherhood: John Everett Millais, Dante Gabriel Rossetti	K1 - K5	10	1 - 5
4	Impressionism Claude Monet, Pierre-Auguste Renoir, Edouard Manet, Edgar Degas, Henri de Toulouse Lautrec, Mary Cassatt	K1 - K5	14	1 - 5
5	The Later 19th Century 5.1 Post Impressionism: Vincent van Gogh, Paul Gauguin, Georges Seurat, Paul Cezanne 5.2 Symbolism: Henri Rousseau, Edvard Munch 5.3 Arts and Crafts Movement: William Morris, Charles Rennie Mackintosh 5.4 Art Nouveau: Victor Horta, Aubrey Beardsley, Gustav Klimt	K1 - K5	14	1 - 5

BOOK FOR STUDY

Kleiner, Fred S. Gardners' *Art through the Ages*. 13th edition. Belmont: Wadsworth Publishing, 2009.

BOOKS FOR REFERENCE

Benjamin, Roger, ed. *Orientalism: Delacroix to Klee*. Auckland: The Art Gallery of New South Wales, 1997.

Bowness, Alan. *Modern European Art*. World of Art series. London: Thames and Hudson, 1985.

Craske, Matthew. *Art in Europe 1700-1830*. New York: Oxford University Press, 1997.

Denis, Rafael Cardoso, and Colin Trodd. *Art and the Academy in the Nineteenth Century*. Manchester: Manchester University Press, 2000.

Facos, Michelle. *An Introduction to Nineteenth Century Art*. New York: Routledge, 2011.

Honour, Hugh. *Romanticism*. London: Allen Lane and Penguin, 1979.

Huyghe, Rene, ed. *Larousse Encyclopedia of Modern Art*. New York: Hamlyn, 1974.

Kapos, Martha, ed. *The Impressionists and Their Legacy*. New York: Barnes and Noble, 1995.

Meechaam, Pam, and Julie Sheldon. *Modern Art: A Critical Introduction*. London: Routledge, 2000.

Shone, Richard. *The Post-Impressionists*. Leicester: Galley, 1979.

Stangos, Nikos, ed. *Concepts of Modern Art. World of Art series*. London: Thames and Hudson, 1994.

The 19th Century: Romanticism and Impressionism. The Great Artists: Their Lives, Works and Inspiration series, vol. I. London: Marshall Cavendish, 1985.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/AE43												
IV	Course Title: Art in Europe (1780-1910)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	2	1	1	2	1	3	1	2	3	1
CO 2	3	3	2	3	2	1	2	3	2	2	2	3	2
CO 3	3	3	2	3	3	1	2	3	3	2	3	3	2
CO 4	3	3	3	3	3	2	2	3	3	2	3	3	3
CO 5	3	3	3	3	3	2	2	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

HINDU ARCHITECTURE AND SCULPTURE

CODE: 23FA/MC/HA45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To trace the evolution of Hindu architecture and sculpture in India
- To situate the Hindu temple in its socio-cultural context
- To critically analyse Hindu sacred architecture and sculpture from India using appropriate vocabulary
- To provide an understanding of key themes and iconography in the study of Hindu sculpture

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define terms and identify characteristic features of Hindu temple	K1
CO2	explain the form and function of Temple architecture and styles of sculpture	K2
CO3	discuss chronological and stylistic developments in Hindu architecture and sculpture	K3
CO4	analyse Hindu temple architecture and sculpture	K4
CO5	critically evaluate, compare and contrast examples of Hindu architecture and sculpture	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	The Hindu Temple Introduction: Hindu temple: concept, plan, elevation, socio-cultural functions Modes of Hindu temples: rock cut and structural Styles of Hindu temples: Nagara, Vesara, Dravida	K1 - K2	5	1

UNIT	CONTENT	CL	Hrs	CO
2	North Indian Rockcut: Siva temple, Mahesamurti, Elephanta Cave 1; Kailasanatha temple, Ravana shaking Mount Kailasa, Ellora	K1 - K5	5	1-5
3	North Indian Structural: Dasavatar temple, Deogarh; Lingaraja temple, Bhuvaneswar; Sun temple, Wheel, Surya, Karatalas Player, Konarak; Kandariya Mahadeva temple, sculpture, Khajuraho	K1- K5	20	1-5
4	Central Indian Chenna Kesava temple, Belur; Hoysalesvara temple, plinth reliefs, Halebid; Kesava temple, relief sculptures, Somnathpur	K1- K5	10	1-5
5	South Indian 5.1 Rock cut: Mamallapuram - Varaha Mandapa, Bhu Varaha, Gajalakshmi Panel, Four armed Durga, Vishnu as Tiruvikrama; Mahishasura Mandapa, Somaskanda panel, Mahishasuramardini panel; Five Rathas, Arjuna's Penance 5.2 Structural: Shore temple, Mamallapuram; Kailasanatha temple, Kanchipuram; Brihadeswara temple, Thanjavur; Brihadeswara temple, Gangaikondacholapuram; Airavateswara, Darasuram: Meenakshi Amman Temple, Madurai 5.3 Bronzes: Ardhanareswara, Kalyanasundara Marriage of Siva and Parvati, Siva Nataraja	K1- K5	25	1-5

BOOKS FOR STUDY

Brown, Percy. *Indian Architecture Vol. I: Buddhist and Hindu*. Bombay: D.B. Taraporevala, 1971.

Tömöry, Edith. *A History of Fine Arts in India and the West*. Chennai: Orient Blackswan, 2009.

BOOKS FOR REFERENCE

Anantharaman, Ambujam. *Temples of South India*. Chennai: East West, 2009.

Champakalakshmi, R. *The Hindu Temple*. New Delhi: Roli and Janssen B. V., 2001.

Champakalakshmi R. *Religion, Tradition and Ideology: Pre-colonial South India*. New Delhi: Oxford University Press, 2011.

Dehejia, Vidya. *Indian Art*. London: Phaidon, 1997.

Deva, Krishna. *Temples of North India*. New Delhi: National Book Trust, 1985.

Guy, John. *Indian Temple Sculpture*. Chennai: Westland Books, 2011.

Krishnan, Gauri Parimoo. *The Power of the Female: Devangana Sculptures on Indian Temple Architecture*. New Delhi: D.K. Printworld (P) Ltd., 2014.

Michell, George. *Hindu Art and Architecture*. London: Thames and Hudson, 2000.

Michell, George and Peterson, Indira Viswanathan. *The Great Temple of Thanjavur: One Thousand Years, 1010 – 2010*. Mumbai: Marg Foundation, 2010.

Morley, Grace. *Indian Sculpture*. New Delhi: Roli Books, 2005.

Nagaswamy, R. *Brhadisvara Temple: Form and Meaning*. New Delhi: Indira Gandhi National Centre for the Arts and Aryan Books International, 2011.

Nagaswamy R. *Visnu Temples of Kancipuram*. New Delhi: D.K. Printworld (P) Ltd., 2011.

Pande, Dr. Alka. *Masterpieces of Indian Art*. New Delhi: Roli Books, 2007.

Sengupta, Arputha Rani. *Kailasanatha Temple – The Realm of Immortals*. Delhi: Agam Kala Prakashan, 2009.

Sivaram, Rama S. *Early Chola Art: Origin & Emergence of Style*. New Delhi: Navrang, 1994.

Swaminathan, S. *Mahabalipuram: Unfinished Poetry in Stone*. Chennai: Arkey Graphics, 2011.

Vasudevan, Geeta. *The Royal Temple of Rajaraja: An Instrument of Imperial Cola Power*. New Delhi: Abhinav Publications, 2003.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/HA45												
IV	Course Title: Hindu Architecture and Sculpture												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	1	3	3	3	3	3	3	1
CO 2	3	3	3	3	3	1	3	3	3	3	3	3	2
CO 3	3	3	3	3	3	1	3	3	3	3	3	3	1
CO 4	3	3	3	3	3	1	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	1	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

FIGURE DRAWING PRACTICAL

CODE: 23FA/MC/P245

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To introduce figure drawing through the study of human structure and form
- To enable an understanding of the figure through simplification into three dimensional forms and gesture studies
- To provide an understanding of the structure of the head and facial expression
- To enable the drawing of human figures in proportion and different posture

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	demonstrate an understanding of building the human figure using mannequinisation	K1
CO2	understand human anatomy and draw human figures in proportion	K2
CO3	draw portraits from different angles	K3
CO4	draw full figures in different poses and angles and in motion	K4, K5
CO5	create figure compositions	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Structure and Form 1.1 Bones, muscles	K1 – K4	2	1-4
2	Mannequinisation 2.1 Landmarks, gesture and bean drawings	K1 – K6	19	1-5
3	Principles of Drawing the Head 3.1 Proportions 3.2 Planes of the head 3.3 Facial features 3.4 Extreme angles of the head 3.5 Facial expressions	K1 - K6	20	1-5

UNIT	CONTENT	CL	Hrs	CO
4	Principles of Drawing the Full Figure 4.1 Proportions 4.2 Postures 4.3 Perspective of figure	K1 - K6	25	1-5
5	Figuration and tone 5.1 Mass drawing	K1 - K6	25	1-5

GUIDELINES

- The prescribed media are graphite, charcoal, colour pencil, oil pastel, dry pastel, pen and marker pen

BOOKS FOR REFERENCE

Cerrier, Francisco Ascensio. *Pastels for Beginners*. Cologne: Konemann, 1999.

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Curnow, Vera. *The Best of Coloured Pencil - Vol 5*. Massachusetts: Quarry – Rockport, 1999.

Douet, Valerie C., ed. *Drawing for Pleasure*. Kent: Search, 2001.

Gail, Angela. *Drawing: A Step-by-Step Guide to Drawing Techniques*. Twickenham: Tiger Books International, 1997.

Guptill, Arthur. *Freehand Drawing Self Taught*. New York: Watson Guptill, 1984.

Mulick, Milind, *Sketchbook*. Pune: Jyotsna Prakshan, 2007.

Rodwell, Jenny. *Drawing*. Middlesex: Hamlyn Publishing, 1988.

Sidaway, Ian and Hoggett, Sarah. *The Practical Encyclopedia of Drawing*. London: Hermes House, 2012.

Tupe, Shivaji. *Sketchbook*. Pune: Jyotsna Prakashan, 2007.

Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

Woods, Michael. *Pencil Drawing*. New York: Dover, 1987.

Yot, Richard. *Light for Visual Artists*. London: Laurence King Publishing Ltd. 2013

PATTERN OF ASSESSMENT

Continuous Assessment:	50 marks
Classwork	40 marks
Assignments	10 marks

Rubrics for evaluation of classworks and assignments	Marks	Cognitive Level
Use of media and techniques	25	K1 - K4
Drawing skills	25	K5, K6

End Semester Examination

Total Marks: 100

Duration: 3 Hours

Question Paper Pattern

Rubrics for evaluation of classworks and assignments				
Section	Cognitive Level	Marks	Hours	Pattern
A	K1 - K4	25	1	Exercise based on observation
B	K5, K6	75	2	Figure composition

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/P245												
IV	Course Title: FIGURE DRAWING PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	1	1	3	3	3	3	3	3
CO 2	3	3	3	1	3	1	1	3	3	3	3	3	3
CO 3	3	3	3	1	3	1	1	3	3	3	3	3	3
CO 4	3	3	3	1	3	1	1	3	3	3	3	3	3
CO 5	3	3	3	1	3	1	1	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

DESIGN FUNDAMENTALS PRACTICAL

CODE: 23FA/MC/P345

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To understand the principles and elements of two-dimensional design
- To introduce the application of two-dimensional design
- To reinforce understanding of the principles and elements of design using skill-building exercises

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the elements and principles of design	K1
CO2	understand colour interactions and symbolisms	K2
CO3	use appropriate media and techniques for design rendering	K3
CO4	apply the elements of design, colour and principles of design in two-dimensional design	K4
CO5	create effective designs using the principles of design	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Point and Line 1.1 Marks: dots 1.2 Lines: vertical, horizontal, and diagonal lines 1.3 Line and Space: positive and negative space	K1- K4	16	1-4
2	Forms and Shapes 2.1 Forms: organic and inorganic 2.2 Shapes: figure-ground studies	K1 - K4	16	1-4
3	Texture 3.1 Actual, implied, invented, and abstract textures	K1 - K4	16	1-4

UNIT	CONTENT	CL	Hrs	CO
4	Colour 4.1 Colour terminology 4.2 Colour harmony 4.3 Colour inventories	K1 - K6	18	1-5
5	Principles of Design 5.1 Balance, emphasis and rhythm 5.2 Unity and variety 5.3 Proportion and scale	K1 - K6	25	1-5

BOOKS FOR REFERENCE

Ames, Lee J. *The Dot, Line and Shape Connection*. New York: Doubleday, 1982.
 Aspelund, Karl. *The Design Process*. 2nd edition New York: Fairchild, 2010.
 Cole, Alison. *Colour*. London: Dorling Kindersley, 1993.
 Hampshire, Mark, and Keith Stephenson. *Communicating with Pattern: Stripes*. New Delhi: RotoVision, 2004.
 Hampshire, Mark, and Keith Stephenson. *Communicating with Pattern: Circles and Dots*. New Delhi: RotoVision, 2006.
 Morioka, Adams, and Terry Stone. *Colour Design Workbook: A Real World Guide for Using Colour in Graphic Design*. Massachusetts: Rockport, 2006.
 Philips, Peter, and Gillian Bunce. *Repeat Patterns: A Manual for Designers, Artists and Architects*. London: Thames and Hudson, 1993.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork : 40 marks

Assignment : 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Referencing and thumbnails	10	K1 - K2
Design Development	30	K3 - K6
Execution and presentation	10	K3 - K6

End Semester Examination**Total Marks: 100****Duration: 3 Hours**

Question Paper Pattern

Rubrics for evaluation of classworks and assignments				
Section	Cognitive Level	Marks	Hours	Pattern
A	K1 - K4	25	1	Thumbnail designs and colour swatches
B	K5, K6	75	2	Develop any one thumbnail into a completed work

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/P345												
IV	Course Title: DESIGN FUNDAMENTALS PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	-	-	3	3	3	3	3
CO 2	3	3	3	2	2	1	-	-	3	3	3	3	3
CO 3	3	3	3	2	3	1	-	-	3	3	3	3	3
CO 4	3	3	3	2	3	1	-	-	3	3	3	3	3
CO 5	3	3	3	2	3	1	-	-	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

DIGITAL PHOTOGRAPHY PRACTICAL

CODE: 23FA/AC/P445

CREDITS: 5

L T P: 0 0 6

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide training in the technical and aesthetic aspects of photography
- To enable the exploration of various genres of photography
- To provide an understanding of ambient and artificial lighting and shooting in outdoor and indoor settings
- To provide an awareness of image processing on Photoshop for select applications in art and design

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the science behind a DSLR camera and grasp the history of photography and its genres	K1
CO2	understand and apply the elements of digital photography	K2
CO3	use photography skills to analyse and frame subjects	K3
CO4	develop narrative frames with natural and artificial light	K4
CO5	creatively explore the scope and medium of photography in art and design	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Photography 1.1 History of photography: an overview 1.2 Genres of photography 1.3 Understanding the equipment: Cameras and Lenses	K1	8	1

UNIT	CONTENT	CL	Hrs	CO
2	Elements of Digital Photography 2.1 Exposure, Aperture, Shutter speed, ISO 2.2 Principles of mise-en-scène: golden ratio, rule of thirds, perspective, view-point, emphasis 2.3 Study of natural light and its qualities 2.4 Colour theory: hue, value, saturation, temperature, interactions 2.5 Appreciation of artificial lights	K1 - K3	25	1-3
3	Narrative Photography 3.1 Documentary 3.2 Photojournalism	K1 - K6	15	1-5
4	Appreciation of Commercial Photography 4.1 Product 4.2 Food 4.3 Architecture	K1 - K6	20	1-5
5	Application of Photography 5.1 Art: constructed images, montage, photographic installation 5.2 Design: posters, book wrappers, packaging	K1 - K6	10	1-5

BOOKS FOR REFERENCE

Ang, Tom. *Digital Photographer's Handbook: 5th Edition*. London: Dorling Kindersley, 2012.

Busch, David D. *Mastering Digital SLR Photography: The Serious Photographer's Guide to High-Quality Digital SLR Photography*. Boston: Thomson Course Technology, 2005.

Hicks, Roger and Frances Schultz. *Product Shots*. Switzerland: Roto Vision SA, 1994.

Hicks, Roger and Frances Schultz. *Still Life*. Switzerland: Roto Vision SA, 1996.

Hilton, Jonathan. *Close-up Photography*. Switzerland: Roto Vision SA. 1998.

London, Barbara and Jim Stone. *A Short Course in Digital Photography*. New Jersey: Pearson Education, 2010.

Yot, Richard. *Light for Visual Artists*. London: Laurence King Publishing Ltd. 2013.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork: 25 marks
Portfolio: 25 marks

Rubrics for evaluation of classworks and Portfolio	Marks	Cognitive Level
Referencing	10	K1 - K2
Technical and aesthetic aspects	30	K3 - K6
Execution and presentation	10	K3 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed from Unit 3 and 5 for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Referencing	10	K1 - K2
Technical and aesthetic aspects	30	K3 - K6
Execution and presentation	10	K3 - K6

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/AC/P445													
IV	Course Title: Digital Photography Practical													
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)					
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	
CO 1	3	3	3	1	2	3	2	1	3	3	3	3	1	
CO 2	3	3	3	1	3	3	2	2	3	3	3	3	2	
CO 3	3	3	3	1	3	3	3	3	3	3	3	3	3	
CO 4	3	3	3	1	3	3	3	3	3	3	3	3	3	
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3	

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

INDO-ISLAMIC ARCHITECTURE

CODE: 23FA/MC/IA54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable an awareness of the evolution of Islamic architecture in India
- To provide an understanding of the main characteristics of Islamic architecture and its dynastic and regional diversity
- To highlight the significance of patronage for the development of Islamic religious and secular architecture
- To understand the types and styles of Indo-Islamic architecture within the socio-cultural context

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify characteristic features of Indo-Islamic architecture	K1
CO2	understand the significance of religious and secular Indo-Islamic architecture	K2
CO3	demonstrate an understanding of form and ornamentation in Indo-Islamic architecture	K3
CO4	compare, contrast the different styles in Indo-Islamic architecture	K4
CO5	evaluate the development of Indo-Islamic architecture	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Islamic Art Religious concepts 2.1 Types of architecture: religious and secular 2.2 Styles of architecture: Imperial, Provincial, Mughal	K1 - K2	2	1

UNIT	CONTENT	CL	Hrs	CO
2	Imperial style 3.1 Slave Dynasty: Qutb Complex – Quwat-ul-islam Mosque, Qutb Minar, Delhi; Arhai-din-ka Jhompra, Ajmer; Tomb of Iltutmish, Delhi 3.2 Khalji and Tughlaq: Alai Darwaza, Jamat Khana Masjid, Delhi; Tomb of Ghias-ud-din Tughlaq, Tughlaqabad 3.3 Sayyid and Lodi: Square tombs and octagonal tombs of Mubarak Shah Sayyid, Mohammed Shah Sayyid and Sikander Lodi, Delhi; Jamala Masjid, Qila Kuhna Masjid, Delhi; Tomb of Sher Shah Sur, Sasaram	K1 - K5	8	1-5
3	Provincial style 4.1 Bengal: Chota Sona Masjid, Gaur 4.2 Jaunpur: Atala Masjid, Jami Masjid 4.3 Ahmedabad: Tin Darwaza 4.4 Gujarat: Mausoleum of Sayyid Usman, Usmanpur 4.5 Hyderabad: Golconda Fort, Charminar 4.6 Bijapur: Gol Gumbaz (Tomb of Muhammad Adil Shah)	K1 - K5	20	1-5
4	Mughal Style 5.1 Early Mughal period: Delhi; Humayun's tomb, Delhi 5.2 Akbar: Jahangiri Mahal, Red Fort, Agra; Fatehpur Sikri Agra - Jama Masjid, Buland Darwaza, Tomb of Salim Chishti, Diwan-i-Am, Diwani-i-Khas, Jodha Bai's Palace, Birbal's House, Mariam's House, Panch Mahal 5.3 Jahangir: Akbar's tomb, Sikandra; Itmad-ud-Daulah's tomb, Agra 5.4 Shahjahan: Khas Mahal Agra Fort; Diwan-i-Am, Red Fort, Delhi; Taj Mahal, Agra	K1 - K5	23	1-5
5	Later Mughal Architecture 5.1 Aurangzeb: Moti Masjid, Red Fort, Delhi 5.2 Bibi ka Maqbara, Maharashtra	K1 - K5	12	1-5

BOOK FOR STUDY

Brown, Percy. *Indian Architecture Vol. II: Islamic Architecture*. Bombay: D.B. Taraporevala, 1971.

Tömöry, Edith. *A History of Fine Arts in India and the West*. Madras: Orient Longman, 1982.

BOOKS FOR REFERENCE

- Bhalla, A.S. *Royal Tombs of India: 13th to 18th Century*. Ahmedabad: Mapin Publishing, 2009.
- Bunce, W. Frederik. *Islamic Tombs in India: The Iconography and the Genesis of their Design*. New Delhi: D.K. Printworld, 2004.
- Goel, Vikram Chandra. *Fatehpur Sikri: The City of Victory and Harmony*. New Delhi: Kitab Mahal, 2000.
- Hillenbrand, Robert. *Islamic Art and Architecture*. London: Thames & Hudson Ltd., 1999.
- Koch, Ebba. *Mughal Architecture*. New Delhi: Oxford University Press, 2002.
- Lall, John, and D.N. Dube. *Taj Mahal and the Glory of Mughal Agra*. New Delhi: Lustre, 1985.
- Mehta, Rustam J. *Masterpieces of Indo-Islamic Architecture*. Bombay: D.B. Taraporevala, 1976.
- Michell, George and Zebrowski, Mark. *The New Cambridge History of India: Architecture and Art of the Deccan Sultanates*. Cambridge: Cambridge University Press, 1999.
- Sen Gupta, Subhadra. *Fatehpur Sikri*. New Delhi: Niyogi Books, 2013.
- Singh, Sumit. *Islamic Architecture: A Critical Study*. New Delhi: Cyber Tech Publications, 2014.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/IA54												
V	Course Title: Indo-Islamic Architecture												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	1	3	3	3	3	3	3	1
CO 2	3	3	3	3	3	1	3	3	3	3	3	3	2
CO 3	3	3	3	3	3	1	3	3	3	3	3	3	1
CO 4	3	3	3	3	3	1	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	1	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023–2024)

INDIAN PAINTING

CODE: 23FA/MC/IP55

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an overview of traditional painting in India from prehistory to the nineteenth century
- To provide an understanding of the materials and techniques in painting murals and miniatures
- To trace the stylistic development and variances in painting as related to historical, religious, political and social contexts
- To develop visual analysis skills that will help in identifying key paintings from various regions and time periods

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list/spell out the materials and techniques used in mural and miniature painting	K1
CO2	understand the contexts of creation of Indian murals and miniatures	K2
CO3	identify the styles of traditional painting with reference to representation and expression	K3
CO4	analyse regional and period styles with reference to historical, religious, political and social contexts	K4
CO5	evaluate traditional Indian painting using contextual and comparative modes	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Chitrasutras 1.2 Methods and materials	K1 - K3	3	1-2

UNIT	CONTENT	CL	Hrs	CO
2	Murals: Deccan and South India 2.1 Ajanta 2.1.1 Early phase: Cave 10 – Chaddanta jataka, 2.1.2 Middle phase: Cave 17 – Vessantara jataka, Mother and Child before Buddha 2.1.3 Late phase: Cave 1– Bodhisattva Padmapani 2.2 South Indian Painting 2.2.1 Pallava: Parvati, Talagiriswara temple, Panamalai 2.2.2 Pandya: Lotus Pool, Jain cave temple, Sittananavasal 2.2.3 Chola: Rajaraja I and his Guru, Shiva Tripurantaka, Brihadiswara temple, Thanjavur 2.2.4 Vijayanagara: Shiva Tripurantaka, Marriage of Shiva and Parvati, Virupaksha temple, Hampi; Viranna and Virupanna with Retinue, Girija Kalyanam, Virabhadra temple, Lepakshi 2.2.5 Nayaka: Samavasarana, Jain temple, Tiruparutikunram; Marriage of Shiva and Parvati, Meenakshi temple, Madurai; Bhikshatana–Mohini Panels, Nataraja temple, Chidambaram, Life of Parshvanath Thirthankara, Shravana Belagola Jain Matha, Mysore 2.3 Kerala 2.3.1 Shiva Nataraja, Mahadeva temple, Ettumanur 2.3.2 Vishnu Seshasayi, Krishna and Gopis, Shiva in Linga Form, Padmanabhapuram palace temple, Padmanabhapuram 2.3.3 Queens of Dasaratha Giving Birth, Battle between Rama and Ravanna, Mattancheri palace, Kochi	K1 - K5	20	1-5
3	Murals: North and East India 3.1 Ladakh 3.1.1 Goddess Tara, Queen with a Prince and a Lama, Sumstek, Alchi 3.1.2 Ekadashmukha Avalokitesvara, Saspol caves 3.1.3 Wheel of Life, Hemis monastery 3.2 Himachal Pradesh 3.2.1 Story of Sudhana, Tabo monastery, Spiti 3.3 Rajasthan 3.3.1 Rasa Leela, Badal mahal, Bundi fort 3.3.2 Maharao on a Bird Shoot, Bada mahal, Kotah fort 3.3.3 Royal Durbar, Juna mahal, Dungarpur fort	K1 - K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
4	Mughal and Deccani Miniatures 4.1 Akbar 4.1.1 Hamza Nama: Mihrdukht Shoots her Bow at the Ring, The Unfaithful Wife 4.1.2 Akbar Nama: Akbar Restraining Hawai, Akbar Receiving the News of Salim's Birth 4.2 Jahangir: Deposition from the Cross, Squirrels in a Chennar Tree, Jahangir Prefers a Sufi to Kings, Jehangir's Dream, The Dying Inayat Khan 4.3 Deccani Miniatures 4.3.1 Ahmednagar: Tarif-i-Hussain Shai King Sitting on the Throne, Hindola Raga (Ragamala Series) 4.3.2 Bijapur: Portrait of Ibrahim Adil Shah II 4.3.3 Golconda: Poet in a Garden	K1 - K5	20	1-5
5	Rajput Miniatures 5.1 Bhakti movement 5.2 Rajasthani Schools 5.2.1 Mewar: Lalita Ragini, Ramayana Manuscripts, Ayodhyakandha 5.2.2 Bundi: Krishna Subduing the Snake Kaliya, Bhairava Ragini, Vasanta Ragini (Ragamala series), Baramasa Paintings 5.2.3 Kishangarh: Krishna and Radha in a Pavilion, Portrait of Bani Thani as Radha 5.3 Pahari Schools 5.3.1 Basholi: Virahanivedana: A Lovesick Heroine (Rasamanjari), Krishna Stealing Milk 5.3.2 Kangra: Rama and Sita in the Forest, Krishna and Radha in an Amorous Pose, Worship of Mount Govardhan, Vasanta Raga	K1 - K5	10	1-5

BOOKS FOR STUDY

Anand, Mulk Raj. *Album of Indian Painting*. New Delhi: National Book Trust, 1973.
 Brijbhushan, Jamila. *The World of Indian Miniatures*. Tokyo: Kodansha International, 1979.
 Seth, Mira. *Indian Painting: The Great Mural Tradition*. Ahmedabad: Mapin Publishers, 2006.

BOOKS FOR REFERENCE

Ahluwalia, Roda. *Rajput Painting: Romantic, Divine and Courtly Art from India*. Ahmedabad: Mapin Publishing, 2008.
 Almohammadi, Abdul Nasir and Rajaram Panda. *Our Colourful World in Ajanta and Ellora*. New Delhi: Mittal Publications, 2011.
 Barret, Douglas, and Basil Gray. *Indian Painting*. London: Skira, Macmillan, 1978.

Beach, Milo Cleveland. *The New Cambridge History of India: Mughal and Rajput Painting*. Cambridge: Cambridge University Press, 2000.

Chakraverty, Anjan. *Sacred Buddhist Painting*. New Delhi: Roli and Janssen, 2006.

Daljeet. *Ragachitra: Deccani Ragamala Paintings*. New Delhi: Niyogi Books, 2014.

Dallapiccola, Anna. L. and Brigitte Khan Majlis and George Michell with John M. Fritz. *Lepakshi: Architecture, Sculpture and Painting*. New Delhi: Niyogi Books, 2019.

Ghosh, D.P. *Indian Painting: Eastern School*. New Delhi: Sundeep Prakashan, 1982.

Goswamy, B.N. and Usha Bhatia eds., *Indian Painting*. New Delhi: Lalit Kala Akademi, 1995.

Goswamy, B.N. and Fischer, Eberhard. *Pahari Masters: Court Painters of Northern India*. New Delhi: Niyogi Books, 2009.

Goswamy, B.N. *Nala and Damayanti: A Great Series of Paintings of an Old Indian Romance*. New Delhi: Niyogi Books, 2015.

Kossak, Steven. *Indian Court Painting: 16th – 19th Century*. London: Thames and Hudson, 1997.

Losty, J. P. *Court and Courtship: Indian Miniatures in the TAPI Collection*. New Delhi Niyogi Books, 2020.

Michell, George and Mark Zebrowski. *The New Cambridge History of India: Architecture and Arts of the Deccan Sultanates*. Cambridge: Cambridge University Press, 1999.

Pande, Alka. *Shringara: The Many Faces of Indian Beauty*. New Delhi: Rupa Publications, 2011.

Seth, Mira. *Wall Paintings of the Western Himalayas*. New Delhi: Ministry of Information and Broadcasting, 1976.

Schmitz, Barbara. *After the Great Mughals: Painting in Delhi and the Regional Courts in the 18th and 19th Centuries*. Mumbai: Marg Publications, 2002.

Sharma, Vijay. *Painting in the Kangra Valley*. New Delhi: Niyogi Books, 2020.

Welch, Stuart Cary. *Imperial Mughal Painting*. New York: George Braziller, 1978

JOURNALS

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Bautze K., Joachim. "Early Painting at Bundi." *Marg*, Vol.51, No.3, Mar. 2000, pp.12-23.

Dalrymple, William. "Fragile Legacy: The Paintings of Ajanta Caves 9 and 10." *Marg*, Vol.66, No.3, March 2015, pp.13-21.

Doshi, Saryu. "The Tradition of Manuscript illustration." *Marg*, Vol.38, No.3, pp.53-82.

Jones, Dalu. "Patronage under the Medici and the Mughals: Cultural Parallels and Artistic Exchanges." *Marg*, Vol.39, No.1, June 1998, pp.09-28.

Kumar Das, Asok. *Marg*, Vol.49, No.4, June 1998. pp. 8-107.

Mate, M.S. "Miniature Painting." *Marg*, pp.65-71.

Pal, Pratapaditya, "New Studies in Mughal Painting: Introductions." *Marg*, Vol.42, No.4, June 1998, pp.08-19.

Poddar, Neeraja. "Jagat Singh's Ramayana." *Marg*, Vol.60, No.2, Dec. 2008, pp.69-72.

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Saryu, Doshi. "The Art Treasures of Shravana Belgola." *Marg*: In Praise of Gommateshvara, Shravana Belgola, pp.49-88.

Topsfield, Andrew. "The Saving Power of Soron: Sahibdin of Udaipur and the Sukarakshetra Mahatmya." *Marg*, Vol.51, No.3, Mar. 2000, pp.26-40.

WEB SOURCES

<https://www.khanacademy.org>

<https://smarthistory.org>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/IP55													
V	Course Title: Indian Painting													
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)					
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	
CO 1	3	3	3	3	2	2	2	2	3	3	3	3	3	
CO 2	3	3	3	3	2	2	2	2	3	3	3	3	3	
CO 3	3	3	3	3	2	2	2	3	3	3	3	3	3	
CO 4	3	3	3	3	2	2	3	3	3	3	3	3	3	
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3	

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

DRAWING III PRACTICAL

CODE: 23FA/MC/P455

CREDITS: 5

L T P: 0 0 5

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To initiate the development of exploratory and creative drawings
- To develop ideation, research and concept-based approaches in artistic expression
- To enable a shift from academic realism towards simplification and abstraction
- To enable the visualising and execution of drawings on three-dimensional forms

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	visualise and draw from experiences and observations	K1
CO2	explore drawing as a process leading to simplification and abstraction	K2
CO3	derive ideas and express concepts through creative compositions	K3
CO4	develop drawn forms from varied inspirations into designs and icons	K4
CO5	explore drawing as a means of artistic expression on surfaces of three-dimensional forms	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Expressive Drawing	K1 - K6	10	1-5
2	Abstraction	K1 - K6	15	1-5
3	Conceptual drawing	K1 - K6	20	1-5
4	Drawing for Design	K1 - K6	10	1-5
5	Drawings on three-dimensional surfaces	K1 - K6	10	1-5

BOOKS FOR REFERENCE

Ching, Francis D. K. *Drawing: A Creative Process*. New York: Van Nostrand Reinhold, 1990.

Mittler, Gene A. and Howze, James. *Creating and Understanding Drawings*. USA: Glencoe Publishing, 1989.

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Rawson, Philip. *The Art of Drawing*. London: John Calmann & Cooper Ltd. 1983.

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Sausmarez, Maurice de. *Basic Design: The Dynamics of Visual Form*. London: A & C Black (Publishers) Ltd. 2002.

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Vebell, Victoria. *Exploring the Basics of Drawing*. New York: Thomson Delmar Learning, 2005.

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Woods, Michael. *Pencil Drawing*. New York: Dover, 1987

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork 40 marks

Assignment 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Process and ideation	10	K1 - K2
Execution – use of media, techniques	25	K3 - K4
Personal style and originality	15	K5 - K6

End Semester Examination:**Total Marks: 50****Duration:3hours**

Rubrics for evaluation				
Section	Cognitive Level	Marks	Hours	Pattern
A	K1-K4	25	1	Exercise can be based on observation and rendering
B	K5, K6	75	2	Composition

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/P455												
V	Course Title: Drawing III Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	2	2	3	3	3	3	3
CO 2	3	3	3	3	3	2	2	2	3	3	3	3	3
CO 3	3	3	3	3	3	2	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	2	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	2	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.V.A. DEGREE: BRANCH X –VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023–2024)

ILLUSTRATION PRACTICAL

CODE: 23FA/ME/D155

CREDITS: 5

L T P: 7 0 0

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To facilitate the developing of hand rendered illustration skills
- To enable students to explore styles, techniques and media
- To enable students to develop a personal style of expression
- To foster creativity in developing illustrations for diverse applications

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand and apply the process of developing illustrations from ideation to final artwork	K1, K2
CO2	use media and techniques	K3
CO3	demonstrate hand rendered and digital illustration skills for diverse applications	K4
CO4	develop a personal style	K5
CO5	create original illustrations	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 The illustration process 1.2 Illustration styles 1.3 Character building	K1- K4	11	1-2
2	Textbook Illustration 2.1 Illustrating for different texts 2.2 Artwork development	K1- K6	15	1-5
3	Editorial Illustration 3.1 Types of editorials 3.2 Artwork development	K1 - K6	15	1-5

UNIT	CONTENT	CL	Hrs	CO
4	Digital Illustration 4.1 Digital tools 4.2 Artwork development	K1 - K6	30	1-5
5	Picture Book Illustration 5.1 Types of picture books 5.2 Spreads, pagination 5.3 Character and environment 5.4 Storyboards, mockups and colour palette 5.5 Artwork development	K1 - K6	20	1-5

BOOKS FOR REFERENCE

Bettley, James. *The Art of the Book: From Medieval Manuscript to Graphic Novel*. London: V&A Publications, 2001.

Bossert, Jill. *Children's Book Illustration*. Sussex: Rotovision, 1995.

Eyre, Doug. *Drawing Caricatures*. Wiltshire: The Crowood Press, 2007.

Goldberg, Eric. *Character Animation Crash Course*. Los Angeles: Silman-James Press, 2008.

Haller, Susan. *Stock Workbook Illustration 2*. Scott & Daughters Publishing, Inc., 2000.

Lewis, Brian. *An Introduction to Illustration*. London: Grange Books, 1995.

Stanchfield, Walt. *Drawn to Life: 20 Years of Disney Master Classes*. Boca Raton: CRC Press, 2023.

Varughese, E. Dawson. *Visuality and Identity in Post-millennial Indian Graphic Narratives*. London: Palgrave Macmillan, 2018.

Williams, Richard. *The Animator's Survival Kit*. London: Faber & Faber Ltd., 2009.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork	40 marks
Assignment	10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Process	10	K1 - K2
Execution – use of media, techniques	25	K3 - K4
Personal style and originality	15	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Process	10	K1 - K2
Execution – use of media, techniques	25	K3 - K4
Personal style and originality	15	K5 - K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/ME/D155												
V	Course Title: ILLUSTRATION PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	-	3	3	2	2	3	3	3	3	3
CO 3	3	3	3	-	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	-	3	3	2	3	3	3	3	3	3
CO 5	3	3	3	1	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

PAINTING I PRACTICAL

CODE: 23FA/ME/A155

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To enhance skills in academic painting of still life, landscape, figures and portraits
- To enable the rendering of realistic colour, light and texture in observed forms
- To strengthen skills in creating compositions

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify painting media and techniques in rendering forms	K1
CO2	discuss the dynamics between colour and light by observing and painting forms	K2
CO3	render forms to create an understanding of realistic surface qualities	K3
CO4	analyse and execute compositions in western academic and traditional Indian style	K4
CO5	create and organise original compositions based on varied themes	K5, K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	Exploring Colour, Light, Textures	K1 - K2	11	1-2
2	Indian Traditional Painting	K1 - K3	10	1-3
3	Academic Realism - Still Life	K1 - K6	25	1-5
4	Academic Realism - Landscape	K1 - K6	20	1-5
5	Academic Realism - Portraits and Figures	K1 - K6	25	1-5

GUIDELINES

- Students are required to work in the academic style. For Units 2, 3, 4 and 5, students will paint two works, one being a copy of a masterwork and the other, an original composition.
- Peer review is to be conducted periodically.

BOOKS FOR REFERENCE

- Buchan, Jack, and Baker Jonathan. *Step by Step Art School Portraits*. London: Hamlyn – Reed Consumer Books, 1995.
- Daniels, Alfred. *An Introduction to Painting with Acrylics*. London: Apple Press, 1988.
- Felder, Eugene. *Still Life Fundamentals*. London: Kandour, n.d.
- Great Artists of the Western World: English Portraiture and Landscape*. London: Marshall Cavendish, 1987.
- Great Artists of the Western World: The French Rococo*. London: Marshall Cavendish, 1987.
- Harrison, Hazel. *Art School, How to Paint and Draw*. London: Hermes House, 2009.
- Herniman, Barry. *Painting Mood and Atmosphere*. Kent: Search, 2004.
- Ian, Harper. *Complete Painting Course*. London: Collins, 1993.
- King, Jennifer, ed. *Work Small, Learn Big! Sketching with Pen & Watercolor*. Nevada: International Artist, 2003.
- Kitson, Michael and Wedgwood Alexandra. *Art of the Western World: English Painting*. London: Paul Hamlyn, 1965.
- Knapp, Stephen. *Portrait Inspirations: Collection of Drawing and Painting Ideas for Artists*. Massachusetts: Rockport Publishers, 1997.
- Mulick, Milind. *Methods and Techniques Opaque Colour*. Pune: Jyotsna Prakashan, 2008.
- Mulick, Milind. *Watercolour*. Pune: Jyotsna Prakashan, 2000.
- Pant, Pushpesh. *Ajanta and Ellora: Cave Temples of Ancient India*. Holland: Lustre Press, 2007.
- Parramon, Jose M. *Basic Techniques and Exercises: Painting Landscape and Still Lifes in Watercolour*. New York: Watson-Guption, 1998.
- Pearsall, Ronald. *Introduction to Watercolour, Gouache and Tempera*. London: Grange Books, 1993.
- Pearsall, Ronald. *Practical Painting*. Belgium: Connoisseur, 1983.
- Seth, Mira. *Indian Painting: The Great Mural Tradition*. Ahmedabad: Mapin Publishing, 2006.
- Shelar, Sanjay. *Still Life*. Mumbai: Jyotsna Prakashan, 2008.
- Sidaway, Ian. *Mastering the Art of Oils, Acrylics and Gouache*. London: Hermes House, 2014.
- Simpson, Ian, ed. *Complete Painting Course*. London: Harper Collins, 1993.
- Techniques of the Great Masters of Art*. London: Park Lane, 1993.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork : 40 marks

Assignment : 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/ME/A155												
V	Course Title: PAINTING I Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 2	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 3	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 4	3	3	3	2	3	3	2	3	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by the Departments of English and Fine Arts
to the students of Bachelor of Visual Arts Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

COLONIAL ART AND LITERATURE

CODE: 23ID/IC/CA55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce students to painting and architecture of colonial India
- To familiarize them with writing from and about colonial India
- To train them to critically analyse colonial literature using the framework of postcolonialism
- To highlight the significance of change in artistic styles effected by patronage in the colonial context
- To train them to examine literary and artistic productions of the colonial ethos

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define concepts related to colonialism and postcolonialism with reference to literary studies and art.	K1
CO2	highlight how British colonialism impacted painting, architecture and literature from India and demonstrate how Indian artists and writers engaged with issues thrown up by British colonialism.	K2
CO3	demonstrate an understanding of the colonial context in the production of art and apply concepts related to colonialism and postcolonialism in reading texts written by the British on India .	K3
CO4	analyse art of the colonial period and texts written by the British on India.	K4
CO5	justify the changes in artistic style through critiquing the colonial context; and explain the engagement between colonial/postcolonial ideology and literary texts.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction</u> 1.1 Introduction to Colonial Art and Architecture 1.1.1 East India Company 1.1.2 European Academic Naturalism 1.2 Introduction to Colonial Literature 1.2.1 Occident-Orient 1.2.2 Mimicry, Ambivalence 1.2.3 Diaspora, Identity, Belonging 1.2.4 Historiography – traditional, postmodern	K1-K4	13	1-3
2	<u>Painting the Raj</u> 2.1 Company painting 2.2 British Artists in India 2.2.1 Amateur artists: Sir Charles D'Oyly, Colin MacKenzie 2.2.2 Official and Professional artists: William Hodges, Thomas and William Daniell, Tilly Kettle, Johan Zoffany, George Chinnery 2.3 Establishment of Art Schools and Societies 2.4 Raja Ravi Varma 2.5 Bazaar art 2.5.1 Kalighat painting 2.5.2 Popular prints	K1-K5	15	1-5
3	<u>Building the Raj</u> 3.1 Colonial beginnings: Fort St George and St Mary's Church, Chennai 3.2 Indo-Saracenic Style: Victoria Terminus (Chhatrapati Shivaji Terminus) Mumbai; University Senate House, Chennai; Madras High Court, Chennai 3.3 Neo-Classical Style: Viceroy's House (Raj Bhavan), Kolkata; Victoria Memorial Hall, Kolkata; Viceroy's Palace (Rashtrapati Bhavan), New Delhi	K1-K5	20	1-5
4	<u>Writing the Raj</u> 4.1 Anna Maria: Adieu to India 4.2 Emily Eden: Up the Country (Chapter III) 4.3 George Orwell: Shooting an Elephant 4.4 Rudyard Kipling: The Ballad of the East and West	K1-K5	20	1-5
5	<u>Rewriting the Raj</u> 5.1 William Dalrymple: <i>White Mughals</i> , Chapters 1 and 2 and the photographs 5.2 Fanny Parks: <i>Begums, Thugs and White Mughals</i> , Chapter XXX ("Taj Mahal") and XXXII ("Revelations of Life in the Zenana")	K1-K5	10	1-5

BOOKS FOR REFERENCE

- Archer, Mildred. *British Drawings in the India Office Library*, 2 volumes. HMSO, 1969.
- Archer, Mildred. *Natural History Drawings in the India Office Library*, 2 volumes. HMSO, 1962.
- Ashcroft, Bill et al. *Key Concepts in Post-Colonial Studies*. Routledge, 1998.
- Chawla, Rupika. *Raja Ravi Varma: Painter of Colonial India*. Mapin, 2010.
- Clarke, Robert, editor. *The Cambridge Companion to Postcolonial Travel Writing*. Cambridge UP, 2018.
- Edwards, Justin D., and Rune Graulund, editors. *Postcolonial Travel Writing: Critical Explorations*. Palgrave Macmillan, 2011.
- Irving, Robert Grant. *Indian Summer: Lutyens, Baker and Imperial Delhi*. Yale University, 1981.
- Jain, Jyotindra. *Indian Popular Culture: The Conquest of the World as Picture*, 2nd edition, Apeejay Press, 2011.
- Kalpana, K. and Frank Schiffer. *Madras: The Architectural Heritage* (INTACH Guide). EastWest Books, 2003.
- Loomba, Ania. *Colonialism/Postcolonialism*. Routledge, 1998.
- Mehrotra, Arvind Krishna. *A History of Indian Literature in English*. Hurst & Co., 2003.
- Metcalf, Thomas, R. *An Imperial Vision: Indian Architecture and Britain's Raj*. Faber and Faber, 1989.
- Mitter, Partha. *Art and Nationalism in Colonial India, 1850-1922*. Cambridge University Press, 1994.
- Mohanty, Sachidananda, ed. *Travel Writing and the Empire*. Katha, 2003.
- Moore-Gilbert, Bart J., ed. *Writing India, 1757-1990: The Literature of British India*. Manchester U P, 1986.
- Morris, Jan, Simon Winchester. *Stones of Empire: The Buildings of the Raj*. Oxford University Press, 2005.
- Muthiah, S. *Madras Rediscovered*, 6th edition, Westland, 2008.
- Neumayer, Erwin, and Christine Schelberger. *Popular Indian Art: Raja Ravi Varma and the Printed Gods of India*. Oxford University Press, 2003.
- Neumayer, Erwin, Christine Schelberger, editors. *Raja Ravi Varma: Portrait of an Artist, The Diary of C Raja Raja Varma*. Oxford University Press, 2005.
- Said, Edward. *Orientalism*. Pantheon, 1978. Thomson, Carl. *Travel Writing*. Routledge, 2011.

ONLINE RESOURCES

<http://www.victorianweb.org>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Rubrics for Evaluation
A	K1	10	2x5 (two out of four questions, with internal choice, to answer one question each from Colonial Art and Colonial Literature,)
B	K2	10	1x10 (one out of two from Units 1.2, 4 and 5)
C	K3	10	1x10 (one out of two from Units 1.1, 2 and 3)
D	K4	10	1x10 (one out of two from Units 1.2, 4 and 5)
E	K5	10	1x10 one out of two from Units 1.1, 2 and 3)

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
 Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	15
K5	15

No End Semester Examination

A case study/ term paper on a topic combining colonial art and literature; maximum of 2000 to 2500 words (introduction to conclusion, excluding images) **100 marks**

Marks	Cognitive Level	Rubrics for Evaluation
20	K1 – K2	Introduction, methodology and presentation
40	K3 – K4	Documentation - text and images
40	K5	Research findings and analysis

**Mapping of Course Outcomes (COs)
 to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/CA55												
V	Course Title: COLONIAL ART AND LITERATURE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	-	-	3	3	3	2	3	3
CO 2	3	3	3	3	3	-	-	3	3	3	2	3	3
CO 3	3	3	3	3	3	-	-	3	3	3	2	3	3
CO 4	3	3	3	3	3	-	-	3	3	3	2	3	3
CO 5	3	3	3	3	3	-	-	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
Interdisciplinary Core Course Offered by the Departments of English and Fine Arts to
the students of B.A. English Degree Programme

SYLLABUS
(Effective from the academic year 2023-2024)

WRITING AND ART FOR PICTURE BOOKS

CODE: 23ID/IC/WA55

CREDITS: 5

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce the students to theoretical concepts in the production of Picturebooks
- To help students appreciate the diversity of themes and presentation in Picturebooks
- To visualise and develop illustrations for Picturebooks
- To develop illustration skills using varied media
- To train them to produce a picture book using appropriate word choice, dialogue, narration, story structure, layout, images and colours

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define and list the various kinds of Picture Books and recall the history of Picture Book illustration.	K1
CO2	classify the kinds of Picturebooks and styles of illustration using varied media and understand the dynamics of Picturebook building.	K2
CO3	identify the narrative strategies and illustration techniques involved in Picturebooks and make use of them in the ideation of a Picturebook.	K3
CO4	examine the impact of various writing and art techniques in select Picturebooks such as Wordless Picturebooks, Picturebooks for the differently abled and Postmodern Picturebooks.	K 4
CO5	appraise and critique Picturebooks; choose and develop a strategy using effective language and art for a Picturebook; and build a Picturebook integrating illustrations and text.	K5, K6
CL – Cognitive Level K1–Remember K2– Understand K3– Apply K4 –Analyse K5– Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Introduction to Picture Books</u> 1.1 Kinds of Picture Books : board books, concept books, novelty books, Picturebooks 1.2 History of Picture Book Illustration—an overview 1.3 Picturebooks – definition, features 1.4 Kinds of Picturebooks : Wordless Picturebooks, Picturebooks for the differently abled, Postmodern Picturebooks	K1-K3 K1-K3 K1-K3 K1-K3	12	1-3

UNIT	CONTENT	CL	Hrs	CO
2	<u>Picturebook Building</u> 2.1 Interplay of Text, Design and Illustration 2.2 Picture-Text Dynamics 2.3 Kinds of relationship between pictures and written text	K1-K6 K1-K6 K1-K6	15	1-5
	2.4 Types of writing for Picturebooks : Prose and Verse, Cumulative Tales, Nonsense Verse, Metafiction	K1-K6		
3	<u>Media Exploration and Technique</u> 3.1 Drawing Media 3.2 Painting Media 3.3 Mixed Media	K1-K3 K1-K3 K1-K3	15	1-3
4	<u>Narrative Strategies</u> 4.1 Narrative Perspectives- Verbal and Visual 4.2 Intertextuality- Verbal and Visual 4.3 Intraiconic Texts 4.4 Sylleptic Texts/ Running Stories	K1-K6 K1-K6 K1-K6 K1-K6	18	1-5
5	<u>Illustrating a Picturebook</u> 5.1 Character Development 5.2 Thumbnails and Concept Sketches 5.3 Composition and Layout	K1-K6 K1-K6 K1-K6	18	1-5

BOOKS FOR REFERENCE

Bossert, Jill. *Children's Book Illustration: Step by Step Techniques*. RotoVision, 1998.
 Butler, Catherine, and Kimberley Reynolds, eds. *Modern Children's Literature: An Introduction*. Palgrave, 2005.
 Cullingford, Cedric. *Children's literature and its Effects: The Formative Years*. Cassel, 1998.
 Fliesman, Michael. *Exploring Illustration*. Thomson Delmar Learning, 2004.
 Harrison, Hazel. *The Encyclopedia of Drawing Techniques*. Search, 2004.
 Haviland, Virginia, ed. *Children and Literature: Views and Reviews*. Bodley Head, 1973. Kakar, Sudhir. *Indian Childhood: Cultural Ideals and Social Reality*. OUP, 1979.
 Lewis, David. *Reading Contemporary Picturebooks: Picturing Text*. Routledge, 2001. Nikolajeva, Maria, and Carole Scott. *How Picturebooks Work*. Routledge, 2001.
 Slade, Catharine. *The Encyclopedia of Illustration Techniques*. Quarto, 1997.

JOURNALS

Bookbird: A Journal of Children's Literature
Children's Literature Association Quarterly
Horn Book Magazine

ONLINE RESOURCES

Writing for Young Readers: Opening the Treasure Chest
<https://www.coursera.org/learn/writing-for-children>
 Exploring Books for Children: Words and Pictures
<https://www.open.edu/openlearn/history-the-arts/exploring-books-children-words-and-pictures/content-section-0?active-tab=description-tab>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	5	1x5=5 (1 out of 2 questions, 100 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5	10	1x10=10 (Evaluation of a picturebook, 200 words)
	K6	10	1x10=10 (Ideation of a picturebook, 200 words)

Continuous Assessment:

Total Marks: 50

Ideation and Development of Narrative (Department of English)

25 marks

Ideation and Development of Illustration (Department of Fine Arts)

25 marks

Cognitive Level	Marks
K1	5
K2	5
K3	5
K4	5
K5	10
K6	20

No End Semester Examination

End Semester Evaluation by both Course teachers:

Total Marks: 100

Creation of a Picturebook

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	Knowledge of concepts and theories related to picturebooks
K2	10	Enumerating the features of the chosen sub-genre of picturebook
K3	20	Application of techniques and strategies in art, writing and design for picturebooks
K4	20	Ideation and content of the picturebook
K5	20	Coherence and creativity
K6	20	Execution of the picturebook

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/WA55												
	Course Title: WRITING AND ART FOR PICTURE BOOKS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

MODERN AND POSTMODERN ART IN THE WEST

CODE: 23FA/MC/MP65

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable a critical appreciation of art and architecture from the Ancient world and the Classical and Medieval periods of the West
- To provide a historical survey of Western art from the Ancient, Classical and Medieval periods with regard to artistic styles, structures and time periods
- To provide a general overview of the history and development of western visual art from the ancient through to the medieval period, and its historical, social, cultural, religious, and political contexts
- To develop an understanding and appreciation of the art forms, iconography, styles, and techniques of western visual art as expressed in painting, sculpture, and architecture

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall/list key artworks, artists; define art movements of the twentieth-century	K1
CO2	explain key terms and concepts from art history of the modern and postmodern periods	K2
CO3	identify modern art movements in relation to the social, economic, scientific and political contexts	K3
CO4	examine the shift from Modernism to Postmodernism and beyond	K4
CO5	evaluate the visual qualities of modern and postmodern artworks and contextualise artistic practice	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Evolution of Modernism and the Avant-Garde 1.1 Scientific development 1.2 Political upheaval: the World Wars	K1 - K2	2	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Art in Europe and USA – till the 1940s 2.1 Fauvism: Henri Matisse 2.2 Expressionism: Ernst Ludwig Kirchner, Emil Nolde, Vassily Kandinsky, Franz Marc, Kathe Kollwitz 2.3 Cubism: Analytical and Synthetic – Pablo Picasso, Georges Braque, Aleksandr Archipenko 2.4 Futurism: Giacomo Balla, Umberto Boccioni, Marcel Duchamp 2.5 During the war (1920s-30s): Pablo Picasso, Max Beckmann, Ernst Barlach	K1- K5	18	1-5
3	Art in Europe and USA – 1940s - 1960s 3.1 Dada and Surrealism: Marcel Duchamp, Giorgio de Chirico, Salvador Dali, Frida Kahlo, Joan Miro, Paul Klee 3.2 Abstraction: Piet Mondrian, Vassily Kandinsky, Constantin Brancusi, Henry Moore, Alexander Calder 3.3 Existentialism: Alberto Giacometti 3.4 Abstract Expressionism: Jackson Pollock, Willem de Kooning, Mark Rothko 3.5 Pop Art: Roy Lichtenstein, Andy Warhol, Jasper Johns, Robert Rauschenburg	K1- K5	25	1-5
4	From the Modern to the Postmodern 4.1 Super-realism: Chuck Close, Duane Hanson 4.2 Feminist art: Judy Chicago, Cindy Sherman, Barbara Kruger, Ana Mendieta, Guerrilla Girls, Kiki Smith 4.3 Social and Political Art: Lorna Simpson, Chris Offili, Magdalena Abakanowicz, Jeff Koons, Mark Tansey	K1- K5	10	1-5
5	Postmodernism and Beyond 5.1 Environmental and Site-specific art: Robert Smithson, Christo and Jeanne- Claude 5.2 Performance art: John Cage, Fluxus, Joseph Beuys, Carolee Schneemann 5.3 Conceptual art: Joseph Kosuth, Bruce Nauman 5.4 New Media: Nam June Paik, Bill Viola, Tony Oursler	K1- K5	10	1-5

BOOK FOR STUDY

Kleiner, Fred S. *Gardners' Art through the Ages*. 13th ed., Belmont: Wadsworth Publishing, 2009.

BOOKS FOR REFERENCE

- Acton, Mary. *Learning to Look at Modern Art*. London: Routledge, 2004.
- Alcantara, Isabel, and Sandra Egnolff. *Frida Kahlo and Diego Rivera*. New York: Prestel, 2001.
- Arnason, H.H. *A History of Modern Art*. 3rd ed. London: Thames and Hudson, 1986.
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- Robertson, Jean, and Craig McDaniel. *Themes of Contemporary Art: Visual Art after 1980*. New York: Oxford University Press, 2005.
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- Stangos, Nikos, ed. *Concepts of Modern Art*. 2nd ed. World of Art Series. London: Thames and Hudson, 1994.
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- Wood, Paul, ed. *The Challenge of Avant-Garde*. Art and its Histories Series. London: Yale University Press, 1999.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 word	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/MC/MP65												
VI	Course Title: MODERN AND POSTMODERN ART IN THE WEST												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BVA DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023–2024)

ART OF ASIA

CODE: 23FA/MC/AA64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the arts of China, Korea, Japan, Sri Lanka, Nepal, Tibet, Thailand, Myanmar, Indonesia and Cambodia
- To trace the major developments in Asian art and relate subjects and styles to their historical, religious, political, and social contexts
- To develop visual and contextual analysis skills that will help in identifying key works from the Asian region
- To understand the international flavour of classic Buddhist art in its many related forms across Asian countries

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall/list periods/artists/dynasties/styles in the art of Asia	K1
CO2	understand the development and style of Asian art in the context of Buddhist faith	K2
CO3	identify how painting, sculpture and architecture represent diverse Asian societies	K3
CO4	analyse the relevance of artworks in different cultures	K4
CO5	evaluate artworks and their contexts of creation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	China 1.1 Shang Dynasty Bronzes: Owl, Guang 1.2 Qin Dynasty; Terracotta Army, Lintong 1.3 Tang Dynasty 1.3.1 Sculpture: Longmen Caves 1.3.2 Painting: Wall painting, Tomb of Princess Yougtai 1.4 Song Dynasty	K1- K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	1.4.1 Painting: Monumental Style: Fan Kuan – Travellers among Mountains and Streams 1.4.2 Ma Yuan – On a Mountain Path in Spring, 1.4.3 Liang Kai – Sixth Chan Patriarch Chopping Bamboo 1.4.4 Mu Chi – Six Persimmons 1.5 Yuan Dynasty 1.5.1 Painting: Wu Zhen – Stalks of Bamboo by a Rock, 1.5.2 Huang Gongwang – Dwelling in Fuchun Mountains 1.6 Ming Dynasty 1.6.1 Architecture & Landscape: Forbidden City, Beijing; Suzhou Gardens 1.6.2 Painting: Shen Zhou – Poet on a Mountain 1.6.3 Dong Qichang – Dwelling in the Qingbian Mountains 1.7 Qing Dynasty 1.7.1 Painting: Wang Chien – White Clouds over Hsiao and Hsiang 1.7.2 Wang Hui – Ten Thousand Miles of the Yangtze			
2	Korea 2.1 Silla Kingdom: Cave temple, Sokkuram 2.2 Koryo Dynasty: Celadon ware- Maebyong vase 2.3 Chosen Dynasty: Architecture: Namdaemun, Seoul 2.4 Painting: Chong Son, Kumgang Mountains	K1 - K3	5	1-5
3	Japan 3.1 Asuka and Nara Period 3.1.1 Architecture: Horyu-ji, Kondo; Daibutsuden, Todaiji 3.1.2 Sculpture: Tori Busshi – Shaka Triad, Yakushi Triad 3.2 Heian Period 3.2.1 Mandara: Taizokai 3.2.2 Hand scrolls: Tale of Genji (Genji Visits Murasaki), The Flying Storehouse, Legends of Mount Shigi 3.3 Kamakura Period 3.3.1 Sculpture: Priest Shunjobo Chogen 3.3.2 Painting: Night Attack on Sanjo Palace 3.4 Muromachi Period (Ashikaga) 3.4.1 Painting: Sesshu Toyo – Flowers and Cranes (six-fold screens), Haboku Landscape 3.4.2 Kano Motonobu – Zen Patriarch Xiangyen Zhixian Sweeping with a Broom 3.5 Momoyama Period 3.5.1 Painting: Kano Eitoku – Chinese Lions, Cypress Tree 3.5.2 Hasegawa Tohaku – Pine Forest, Flowers and Maple Leaves 3.6 Edo Period 3.6.1 Architecture: Katsura Imperial Villa 3.6.2 Painting: Ogata Korin – Red and White Plum Blossoms	K1 - K5	20	1-5

UNIT	CONTENT	CL	Hrs	CO
	3.6.3 Ukiyo-e: Suzuki Harunobu – Evening Bell at the Clock; Katsushika Hokusai – The Great Wave off Kanagawa			
4	South Asia (Sri Lanka, Nepal, Tibet) 4.1 Sri Lanka 4.1.1 Architecture: Stupa, Anuradhapura 4.1.2 Sculpture: Gal Vihara (Pariniwana), Seated Buddha, Polannaruwa 4.1.3 Mural Painting: Early period: Apsara figures; Sigiriya, Late period: Vihara 2 & 3, Dambulla Rajamahavihara 4.2 Nepal 4.2.1 Architecture: Swayambanath Stupa, Kathmandu 4.2.2 Sculpture: Vasundhara 4.3 Tibet 4.3.1 Architecture: The Potala Palace, Lhasa, Chorten 4.3.2 Sculpture: Sino-Tibetan Boddhisatva 4.3.3 Painting: Thankas, Mandalas	K1 - K5	10	1-5
5	South East Asia (Thailand, Myanmar, Indonesia, Cambodia) 5.1 Thailand 5.1.1 Architecture: Si Satchanalai 5.1.2 Sculpture: Walking Buddha, 5.2 Myanmar 5.2.1 Architecture: Schwedagon Pagoda, Rangoon, 5.2.2 Sculpture: Stele with screens from the Life of Buddha 5.3 Indonesia (Java) 5.3.1 Architecture and Sculpture: Borobodur 5.4 Cambodia 5.4.1 Architecture: The Bayon Temple, Angkor Thom; Angkor Wat, Angkor 5.4.2 Sculpture: Harihara, King Suryavarman II holding court (relief sculpture), Angkor Wat	K1 - K5	15	1-5

BOOKS FOR STUDY

Kleiner, Fred S. *Gardners' Art Through the Ages*. 13th ed. Belmont: Wadsworth Publishing, 2009.

BOOKS FOR REFERENCE

Bandaranayake, Senake. *The Rock and Wall Paintings of Sri Lanka*. Colombo: Lake House Bookshop, 1986.

Brown, Rebecca M. and Deborah S. Hutton, *Asian Art*. London: Blackwell Publishing, 2006.

Lee, Sherman E. *A History of Far Eastern Art*. London: Thames and Hudson, 1975.

Myers, Bernard. and Trewin Copplestone eds. *Asian Art: An Illustrated History of Sculpture, Painting and Architecture*. London: Hamlyn, 1987.

Swann, Peter. *Art of China, Korea and Japan*. London: Thames and Hudson, 1963.

Sickman, Laurence and Alexander Soper. *The Art and Architecture of China*. London: Penguin Books, 1968.

Rawson, Philip. *The Art of Southeast Asia*. London: Thames and Hudson, 1967.

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Chembukar, Swati. "Art of Cambodia: Interactions with India." *Marg*, Vol.67, No.2, Dec. 2015-Mar. 2016, pp.10-19.

Cunin, Oliver. "The Bayon: Interpretations Continue." *Marg*, Vol.67, No.2, Dec. 2015-Mar. 2016, pp.74-85.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Continuous Assessment: Total Marks: 50 Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/ME/AA64												
VI	Course Title: Art of Asia												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	2	1	2	2	2	2	3	3	3	1
CO 2	2	2	2	2	1	2	2	2	3	3	3	3	1
CO 3	2	2	2	2	1	2	2	2	3	3	3	3	1
CO 4	2	2	2	2	1	2	2	2	3	3	3	3	1
CO 5	2	2	2	2	1	2	2	2	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

DESIGN FOR TEXTILES PRACTICAL

CODE: 23FA/ME/D265

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To enable an understanding of the synergy between ideation, research and design development
- To introduce the process of design development for textile printing
- To provide an awareness of textile dyeing
- To develop skills in pattern derivation and repeat construction
- To enable the creation of original design solutions for block, screen and digitally printed textiles

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand and apply design development methodology for textile print design	K1, K2
CO2	develop patterns from observed and inspired sources	K3
CO3	construct repeats for print design	K4
CO4	develop designs in different layouts	K5
CO5	create designs suitable for varied textile applications	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Design ideation 1.1 Problem analysis, research and consumer profiling 1.2 Design approaches: historical, conceptual, trend-based, market and client oriented 1.3 Mood board, colour story, Pantone fashion and home palette	K1 - K3	4	1-2
2	Design derivation and rendering 2.1 Motifs and patterns 2.2 Design rendering in different media	K1 - K6	22	1-5

UNIT	CONTENT	CL	Hrs	CO
3	Layout and repeat construction 3.1 Layouts – allover, border and engineered 3.2 Tailored repeat structures and seamless repeats	K1- K6	20	1-5
4	Textile dyeing and printing 4.1 Dyeing at yarn and fabric stages - resist and piece dyeing techniques 4.2 Printing styles - direct, mordant, resist and discharge 4.3 Stencil printed product 4.4 Designs for wood block and hand screen printing	K1 - K6	25	1-5
5	Digital printing and product development	K1 - K6	20	1-5

BOOKS FOR REFERENCE

Diane, Tracy, and Tom Cassidy. *Colour Forecasting*. United Kingdom: Blackwell, 2005.

Drudi, Elisabetta Kuky. *Fashion Prints: How to Design and Draw*. Amsterdam: Pepin, 2008.

Hornung, David. *Colour: A Workshop for Artists and Designers*. London: Laurence King, 2005.

Phillips, Peter, and Gillian Bunce. *Repeat Patterns: A Manual for Designers, Artists and Architects*. London: Thames and Hudson, 1993.

San Martin, Macarena. *Patterns in Fashion*. Koln: Evergreen, 2009.

Storey, Joyce. *The Thames and Hudson Manual of Textile Printing*. London: Thames and Hudson, 1992.

Vatsyayan, Kapila (ed.). *Culture of Indigo in Asia: Plant, Product, Power*. New Delhi: Niyogi Books, 2014.

Wilson, Althea. *The Ultimate Stencil Book*. London: Conran Octopus, 1995.

Yates, Marypaul. *Textiles: A Handbook for Designers*. New York: W.W. Norton and Company, 1995.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork	40 marks
Assignment	10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Research and process	10	K1 K2
Design development	30	K3 - K4
Originality	10	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment.

These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Research and process	10	K1 - K2
Design and product development	30	K3 - K4
Originality	10	K5 - K6

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/ME/D265												
VI	Course Title: DESIGN FOR TEXTILES PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	1	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

FIGURE ILLUSTRATION PRACTICAL

CODE: 23FA/ME/A265

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To develop observation and drawing skills for illustration of human figures
- To enable the developing of figure illustration for diverse applications
- To enable the use of different media and techniques

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify different inspirations and influences to develop ideas	K1
CO2	render different styles of figure illustrations using various media	K2
CO3	apply illustration techniques to draw and render figures	K3
CO4	develop compositions based on specific themes	K4
CO5	create original artwork in a personal style	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Figure Illustration	K1	5	1
2	Fashion Illustration	K1 - K6	25	1-5
3	Caricature	K1 - K6	16	1-5
4	Cartooning	K1 - K6	15	1-5
5	Thematic Figure Illustrations	K1 - K6	30	1-5

BOOKS FOR REFERENCE

Armstrong, Jemi, and Wynn Armstrong. *Fashion Design Drawing Course – Principles, Practices and Techniques: The Ultimate Handbook for Aspiring Fashion Designers*. London: Thames and Hudson, 2012.

Art Directors' Index to Illustration, Graphics & Design. Geneva: Rotovision, 1983.

Bettley, James. *The Art of the Book: From Medieval Manuscript to Graphic Novel*. London: V&A Publications, 2001.

Bossert, Jill. *Children's Book Illustration*. Sussex: Rotovision, 1995.

Caplin, Steve, and Adam Banks. *The Complete Guide to Digital Illustration*. New York: Watson–Guptill, 2003.

da Cunha, Gerard, ed. *Goa*. Goa: Architecture Autonomous, 2010.

Fleishman, Michael. *Exploring Illustration*. Australia: Thomas Delmar Learning, 2003.

Seaman, Julian. *Fashion Illustration: Basic Techniques*. Hong Kong: B T Batsford Ltd, 1996.

Harper's Fashion Illustration: 1930 to 1970. London: Batsford, 2010.

Computer Graphics. United States of America: Rockport and Allworth, 1992.

Foster, Walter. *Comic Characters*. California: Walter Foster, 1989.

Furniss, Maureen. *The Animation Bible*. New York: Harry N Abrams, 2008.

Haller, Susan. *Stock Workbook Illustration*. Sussex: Scott Daughters, 2000.

Harper's, *Fashion Illustration 1930 to 1970*. London: Batsford, 2010.

Illustration 1997. New York: The Black Book, 1997.

Ireland, Patrick John. *Encyclopaedia of Fashion Details*. London: BT Batsford, 1996.

Lewis, Brian. *An Introduction to Illustration*. London: Grange Books, 1995.

Slade, Catherine. *The Encyclopaedia of Illustration Techniques*. London: Quarto Publishing, 1997.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork : 40 marks

Assignment : 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

Mapping of Course Outcomes (Cos) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/ME/A265												
	Course Title: FIGURE ILLUSTRATION PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 2	3	3	3	2	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

GRAPHIC DESIGN I PRACTICAL

CODE: 23FA/ME/D365

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To provide an overview of design development
- To create an awareness of typography
- To introduce the concept of idea and image
- To reinforce the use of type and image in select applications through skill-building exercises

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the elements and principles of design; define type anatomy and list type families	K1
CO2	exhibit design-research skills and design ideation	K2
CO3	develop representational and symbolic graphic forms for various applications	K3
CO4	combine idea, type and image into effective communication design	K4
CO5	create design solutions for varied applications	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Design Development 1.1 Defining, referencing, ideating/ conceptualizing, synthesizing, realizing	K1	3	1
2	Basics of Typography 2.1 Type anatomy 2.2 Type styles and families 2.3 Type usage	K1 - K6	23	1-5

3	Idea and Image 3.1 Pictorial symbols and meaning 3.2 Symbols and icons	K2 - K6	20	2-5
4	Grid Application 3.1 Modular design and grid systems 3.2 Page layout 3.3 Book wrapper design 3.4 Invitation and poster design	K1 - K6	20	1-5
5	Identity 5.1 Logotypes and logomarks 5.2 Stationery 5.3 Ephemera	K2 - K6	25	2-5

BOOKS FOR REFERENCE

Carter, Rob, Ben Day, and Philip Meggs. *Typographic Design: Form and Communication*. 4th ed. New Jersey: John Wiley, 2007.

Cossu, Matteo. *1000 Ideas by 100 Graphic Designers*. Massachusetts: Rockport, 2009.

Cullen, Cheryl Dangel. *The Best of Business Card Design*. Massachusetts: Rockport, 2002.
Foster, John. *Masters Poster Design: Poster Design for the Next Century*. Massachusetts: Rockport, 2006.

Gordon, Bob and Maggie Gordon, eds. *A Complete Guide to Graphic Design*. London: Thames and Hudson, 2005.

Healey, Matthew. *Deconstructing Logo Design*. Switzerland: RotoVision, 2010.

Jute, Andre. *Grids: The Structure of Graphic Design*. Switzerland: RotoVision, 1996.

Krause, Jim. *Idea Index*. Ohio: How Design Books, 2000.

Livingston, Alan and Isabella Livingston. *Dictionary of Graphic Design and Designers*. 3rd edition, London: Thames and Hudson, 2012.

Pao, Imin, and Joshua Berger. *30 Essential Typefaces for a Lifetime*. Massachusetts: Rockport, 2006.

Rabinowitz, Tova. *Typography: In-Depth Guide to the Art and Techniques of Designing with Type*. New York: Thomson Delmar, 2006.

Rivers, Charlotte. *Logo-Art: Innovation in Logo Design*. Switzerland: RotoVision, 2009.

Sibley/Peteet Design, Austin. *The Best of Business Card Design 8*. Massachusetts: Rockport, 2008.

Sinha, Anil. *Ideating Identity*. Ahmedabad: Maitreya, National Institute of Design, 2010.

Walton, Roger, ed. *Page Layout: Inspiration Innovation Information*. New York: HBI, 2000.

Wheeler, Alina. *Designing Brand Identity: A Complete Guide to Creating Building and Maintaining Strong Brands*. New Jersey: John Wiley, 2003.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork : 40 marks

Assignment : 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Referencing and thumbnails	10	K1 - K2
Design Development	30	K3 - K6
Execution and presentation	10	K3 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Referencing and thumbnails	10	K1 - K2
Design Development	30	K3 - K6
Execution and presentation	10	K3 - K6

Mapping of Course Outcomes (Cos) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/ME/D365												
VI	Course Title: GRAPHIC DESIGN I PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

PAINTING II PRACTICAL

CODE: 23FA/ME/A365

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To enable proficiency in advanced painting practice
- To enable the development of concepts through exposure to modern and postmodern art
- To stimulate critical thinking by drawing inspiration from masterworks and non-art disciplines as sources for personal interpretation
- To facilitate self-expression through the development of a personal style
- To enable understanding and appreciation of the crucial connection between composition and concept

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explore painting media and techniques	K1, K2
CO2	derive inspiration from different art movements and artists in India and the West	K3
CO3	develop concept-based compositions	K4
CO4	explore a personal vocabulary in painting	K5
CO5	create an original painting series	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Paintings inspired by contemporary art	K1 - K6	20	1-5
2	Paintings inspired by science	K1 - K6	15	1-5
3	Paintings inspired by literature	K1 - K6	15	1-5
4	Paintings inspired by social and current issues	K1 - K6	18	1-5
5	Conceptualise and execute a painting series	K1 - K6	23	1-5

BOOKS FOR REFERENCE

Meyer, E. Susan ed. *20 Oil Painters and How They Work*. New York: Watson–Guptill, 1978.

Guhin, Paula and Geri Greenman. *The Complete Photo Guide to Creative Painting*. Minnesota: Creative Publishing International, 2010.

Fletcher, Alan. *Picturing and Poeting*. New York: Phaidon Press Inc., 2010.

Stahl, Johannes. *Street Art*. h.f. ullmann, 2009.

Dawley, Joseph. *The Second Painters' Problem*. London: Pitman, 1978.

Douet, Valerie C. *Drawing for Pleasure*. Kent: Search Press, 2000.

Fernandes, John. *John Fernandes and his Art*. Mumbai: Navneet, 2000.

Fernandes, John. *The Gallery*. Mumbai: Grace Prakashan, 2006.

Fig, Joe. *Inside the Painter's Studio*. New York: Princeton Architectural Press, 2009.

Hogarth, Paul. *The Artists' Manual*. London: QED Publishing, 1980.

Harrison, Hazel. *Art School, How to Paint and Draw*. London: Hermes House, 2009.

Kulkarni, K.B. *K.B. Kulkarni and his Art*. Mumbai: Navneet, 2001.

Patkar, Rameshchandra. *Madhav Satwalekar*. Pune: Jyotsna Prakashan, 2003.

Sachs, Paul J. *The Pocket Book of Great Drawings*. New York: Pocket Books, 1951.

Tupe, Shivaji. *Sketchbook*. Pune: Jyotsna Prakashan, 2007.

Zaidenberg, Arthur. *Drawing Self-Taught*. New York: Cornerstone Library, 1968.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork : 40 marks

Assignment : 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/ME/A365												
VI	Course Title: PAINTING II Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	1	3	3	3	3	3
CO 2	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 3	3	3	3	2	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	2	3	3	2	3	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi- Cantic of creatures Seeking the Divine through meditation, prayer and worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and Democratic

- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion’s vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one’s past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X –VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023 -2024)

MODERN ART IN INDIA

CODE: 23FA/MC/MI75

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an overview of modern art in India through a critical appraisal of the works of select artists
- To provide an understanding of the political context within which art was created in pre-independence India
- To enable an understanding of the trajectory of modernism in India as a series of reactions to political and social contexts
- To present the evolution of modernism in Indian art as predominantly regional and urban
- To provide an awareness of international influences on artistic practice and the move towards postmodernism

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and list artists and artworks	K1
CO2	explain the impact of influential artists and their works	K2
CO3	describe artworks in terms of materials, styles, subject matter, and concepts	K3
CO4	analyse the contribution of pioneering artists and artist collectives	K4
CO5	critique /compare and contrast works of art; examine art in its social, political, and regional contexts	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Rise of Nationalism	K1, K2	3	1-2
2	Painting and Sculpture – 1900 to 1940s 2.1 The Bengal School: Abanindranath Tagore, Nandalal Bose 2.2 Painting: Rabindranath Tagore, Jamini Roy, Benode Bihari Mukherjee, Amrita Shergil 2.3 Sculpture: Ram Kinker Baij, D. P. Roy Choudhary	K1 – K5	12	1-5
3	Artist Collectives – 1940s to 60s 3.1 The Calcutta Group 3.2 Delhi Silpi Chakra: Satish Gujral 3.3 Progressive Artists Group, Bombay: F.N. Souza, S.H. Raza, M.F. Husain 3.4 The Madras Art Movement and Cholamandal Artists Village: K. C. S. Paniker, S. Dhanapal, P. V. Janaki Ram	K1 - K5	15	1-5
4	Art in Urban Centres – 1970s 4.1 Bombay: Akbar Padamsee, V.S. Gaitonde, Sudhir Patwardhan 4.2 Baroda: K.G. Subramanyan, Gulam Mohommed Sheikh, Bhupen Khakkar 4.3 Delhi: J. Swaminathan, Manjit Bawa, A. Ramachandran, Anjolie Ela Menon 4.4 Calcutta: Jogen Chowdhary, Bikash Bhattacharjee 4.5 Chennai: M. Redappa Naidu, K. M. Adimoolam, R. B. Bhaskaran, S. G. Vasudev, K. Muralidharan, S. Nandagopal, Rm. Palaniappan, K.V. Haridasan 4.6 Hyderabad: Laxma Goud	K1 - K5	20	1-5
5	Art from the 1980s to 2010 Arpita Singh, Mrinalini Mukherjee, Rumana Hussain, Vivan Sundaram, Neelima Sheikh, Nalini Malani, Navjot Altaf, Baiju Parthan, N. Pushpamala, Surendran Nair, Ravinder Reddy, Sheela Gowda, Anita Dube, Rekha Rodwittiya, Atul Dodiya, Sudarshan Shetty, Subodh Gupta, Bharti Kher, Mithu Sen, Jitish Kallat, Benita Perciyal	K1 - K5	15	1-5

BOOKS FOR STUDY

- Sinha, Gayatri, ed. *Indian Art: An Overview*. New Delhi: Rupa, 2004.
- Sinha, Gayatri, ed. *Art and Visual Culture in India: 1857-2007*. New Delhi: Marg, 2009.
- Jhaveri, Amrita. *101: A Guide to 101 Modern and Contemporary Indian Artists*. New Delhi: India Book House, 2006

BOOKS FOR REFERENCE

- Achar, Deeptha, Parul Dave Mukherjee, and Shivaji K. Panikkar, eds. *Towards a New Art History: Studies in Indian Art*. New Delhi: D.K. Printworld, 2003.
- Appasamy, Jaya. *Abanindranath Tagore and the Art of his Times*. New Delhi: Lalit Kala Akademi, 1968.
- Appasamy, Jaya. *An Introduction to Modern Indian Sculpture*. New Delhi: Indian Council for Cultural Relations, 1970.
- Appasamy, Jaya, et. al. *Nandalal Bose Centenary Exhibition*. New Delhi: National Gallery of Modern Art, 1983.
- Bartholomew, R.L., ed. *Nandalal Bose: A Collection of Essays. Centenary Volume*. New Delhi: Lalit Kala Akademi, 1983.
- Bhagat, Ashrafi. *Framing the Regional Modern: K.C.S. Paniker and the Madras Art Movement*. Thrissur: Kerala Lalithakala Akademi, 2011.
- Bickelmann, Ursula, and Nissim Ezekiel, eds. *Artists Today: East-West Visual Arts Encounter*. Bombay: Marg, 1987.
- Chawla, Rupika. *Surface and Depth: Indian Artists at Work*. New Delhi: Viking Penguin, 1995.
- Chawla, Rupika. *Raja Ravi Varma: Painter of Colonial India*. Ahmedabad: Mapin, 2010.
- Continuum: *Progressive Artists' Group*. New Delhi: Delhi Art Gallery, 2011.
- Dalmia, Yashodhara, et. al. *Indian Contemporary Art: Post Independence*. New Delhi: Vadhera Art Gallery, 1997.
- Dalmia, Yashodhara. *The Making of Modern Indian Art: The Progressives*. New Delhi: Oxford University Press, 2001.
- Dalmia, Yashodhara, ed. *Contemporary Indian Art: Other Realities*. Mumbai: Marg, 2002.
- Guha-Thakurta, Tapti. *The Making of a New Indian Art: Artists, Aesthetics and Nationalism in Bengal c.1850- 1920*. New York: Cambridge University Press, 2008.
- Gujral, Satish. *The World of Satish Gujral in his Own Words*. New Delhi: UBS, 1993.
- Hyman, Timothy. *Bhupen Khakhar*. Ahmedabad: Mapin, 1998.
- Imbert, Michel. *Raza: An Introduction to his Painting*. Noida: Rainbow, 2003.
- James, Josef, ed. *Cholamandal: An Artists' Village*. New Delhi: Oxford University Press, 2004.
- Jhaveri, Amrita. *A Guide to 101 Modern and Contemporary Indian Artists*. Mumbai: India Book House, 2005.
- Khanna, Balraj, and Aziz Kurtha. *Art of Modern India*. London: Thames and Hudson, 1998.
- Kapur, Geeta. *When Was Modernism: Essays on Contemporary Cultural Practice in India*. New Delhi: Tulika, 2001.
- Kumar, Yvette, ed. *Celebration of the Human Image: The Human Figure in Indian Contemporary Painting*. New Delhi: Thinking Eye, 2000.
- Major Trends in Indian Art. New Delhi: Lalit Kala Akademi, 1997.
- Mitter, Partha. *Art and Nationalism in Colonial India 1850-1922: Occidental Orientations*. New York: Cambridge University Press, 1994.
- Mitter, Partha. *The Triumph of Modernism: India's Artists and the Avant-Garde 1922-1947*. New Delhi: Oxford University Press, 2007.
- Murti, Isana. *Anjolie Ela Menon: Paintings in Private Collections*. New Delhi: Ram Dayal, 1995.

Panikkar, Shivaji, ed. *Twentieth Century Indian Sculpture: The Last Two Decades*. Mumbai: Marg, 2000.

Ramaswamy, Sumathi. ed. *Barefoot Across the Nation: Maqbool Fida Husai and the Idea of India*. New Delhi: Yoda Press, 2011.

Sen, Geeti. *Bindu: Space and Time in Raza's Vision*. New Delhi: Media Transasia India Ltd, 1997.

Sen, Geeti. *Image and Imagination: Fine Contemporary Artists in India*. Ahmedabad: Mapin, 1996.

Sheikh, Gulammohammed, ed. *Contemporary Art in Baroda*. New Delhi: Tulika, 1997.

Sinha, Gayatri, ed. *Voices of Change: 20 Indian Artists*. Mumbai: Marg, 2010.

Subramanyan, K. G. *Moving Focus*. New Delhi: Lalit Kala Akademi, 2006.

Sundaram, Vivan. *Amrita Sher-Gil: A Self-Portrait in Letters and Writings*. 2 vols. New Delhi: Tulika, 2010.

The Art of Bengal. New Delhi: Delhi Art Gallery, 2012.

Tuli, Neville. *The Flamed Mosaic: Indian Contemporary Painting*. Ahmedabad: Mapin, 1997.

JOURNALS

Art India: The Art News Magazine of India. Mumbai: Art India Publishing

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/MI75												
VII	Course Title: Modern Art in India												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	1	3	1	1	1	1	3	3	2	2	2
CO 2	3	3	3	3	3	1	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

PRINTMAKING - PRACTICAL

CODE: 23FA/MC/P575

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To provide fundamentals of printmaking
- To create an awareness of the varied printmaking medium and techniques
- To explore varied application of print-making

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	learn the basic process and understand the usage of printmaking materials and tools	K1
CO2	apply printmaking principles and experiment with mediums	K2
CO3	explore techniques of printmaking	K3
CO4	develop prints for various themes	K4
CO5	create original compositions for varied applications	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Creative Printmaking 1.1 Collography 1.2 Cyanotype	K1 - K6	25	1-5
2	Gel	K1 - K6	15	1-5
3	Drypoint	K1 - K6	15	1-5
4	Linoleum	K1 - K6	21	1-5
5	Woodcut	K1 - K6	15	1-5

BOOKS FOR REFERENCE

Andrews, Michael F. *Creative Printmaking: For School and Camp Programs*. New Jersey: Prentice-Hall Inc., 1964.

Curwen, Harold. *Printing*. London: Curwen Press. 1948.

Grishin, Sasha. *Australian Printmaking in the 1990s: Artist Printmakers, 1990-1995*. Sydney: Craftsman House (AU), 1997.

Kent, Cyril, and Mary Cooper. *Simple Printmaking: Linocut, Collage and Screen Prints*. New York: Watson-Guptill Publications, 1966.

Martin, Judy. *Encyclopedia of Printmaking Techniques*. London: Headline, 1993.

Peterdi, Gabor. *Printmaking: Methods Old and New*. New York: MacMillan Publishing Company, 1966.

Ryder, John. *Printing for Pleasure*. London: The Bodley Head, 1976.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork : 40 marks

Assignment : 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Process	10	K1 - K2
Execution – use of media and techniques	30	K3 - K4
Creativity and originality	10	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Process	10	K1 - K2
Execution – use of media and techniques	30	K3 - K4
Creativity and originality	10	K5 - K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/P575												
VII	Course Title: PRINTMAKING - PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	2	3	3	3	3	2
CO 2	3	3	3	2	3	2	3	2	3	3	3	3	2
CO 3	3	3	3	2	3	2	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

TEXTILE PRODUCT DESIGN PRACTICAL

CODE: 23FA/ME/D475

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To provide an awareness of textile constructions and applications
- To enable an understanding of textile product development
- To develop skills in designing for stitched embellishments
- To facilitate developing of textile products
- To enable creative design solutions for varied textile applications

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand textiles and their use in fashion and home	K1, K2
CO2	assimilate the process of textile product development	K3
CO3	develop designs for stitched embellishment	K4
CO4	develop designs for different textile products	K5
CO5	conceptualise and create textile products	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Textiles and product development 1.1 Fibres, yarns and fabrics 1.2 Textile construction techniques 1.3 Basic weaves and the weaving process 1.4 Textiles in home and fashion 1.5 Product development – research, ideation, design, selection of materials, specifications, sampling, costing and pricing	K1 - K3	10	1-4
2	Stitched embellishments 2.1 Freestyle embroidery 2.2 Appliqué	K1 - K3	15	1-4
3	Design for home textiles Design and product development	K1 - K6	22	1-5
4	Design for accessories Design and product development	K1 - K6	22	1-5
5	Surface patterning for garment Designing stitched embellishment or print pattern for a garment	K1 - K6	22	1-5

BOOKS FOR REFERENCE

Baugh, Gail. *The Fashion Designer's Textile Directory: The Creative Use of Fabrics in Design*. London: Thames and Hudson, 2011.

Bawden, Juliet. *The Art and Craft of Applique*. Great Britain: Mitchell Beazley, 1991.

Collier, Billie J. and Phyllis G. Tortora. *Understanding Textiles*. 6th ed. New Jersey: Prentice Hall, 2001.

Diamond, Jay and Ellen Diamond. *Fashion Apparel, Accessories and Home Furnishings*. New Delhi: Dorling Kindersley, 2008.

Fogg, Marnie. *The Fashion Design Directory*. London: Thames and Hudson, 2011.

Gardiner, Wendy. *The Encyclopedia of Sewing Techniques*. Kent: Search, 2004.

Grosicki, Z. *Watson's Textile Design and Colour: Elementary Weaves and Figured Fabrics*. 7th ed. London: Butterworth, 1975.

Hemingway, Karen. *The Encyclopedia of Stitches*. London: New Holland, 2004.

Parchure, J.W. *Fundamentals of Designing for Textiles and Other End Uses*. India: Woodhead Publishing India, 2009.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork	40 marks
Assignment	10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Research and process	10	K1 K2
Design and product development	30	K3 - K4
Originality	10	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment.

These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Research and process	10	K1 - K2
Design and product development	30	K3 - K4
Originality	10	K5 - K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/ME/D475												
VII	Course Title: TEXTILE PRODUCT DESIGN PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	1	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

CREATIVE EXPRESSIONS PRACTICAL

CODE: 23FA/ME/A475

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To provide the necessary skills required to create three-dimensional art
- To explore the possibilities of working with different materials to create three-dimensional art
- To enable working with two-dimensional media on three-dimensional materials
- To creatively integrate two-dimensional and three-dimensional media
- To enable the development of a concept-based three-dimensional artwork

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explore the use of different materials in art-making	K1, K2
CO2	creatively integrate two-dimensional and three-dimensional media	K3
CO3	develop art installation	K4
CO4	conceptualise and execute three-dimensional artwork using suitable media, methods, and techniques	K5
CO5	effectively express a personal and creative approach to art	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to 3D Art 1.1 Materials and techniques 1.2 Exploring paper, clay, PoP, wire, cloth, metal sheets, found objects	K1 - K3	12	1-2
2	Integrating 2D and 3D Art – painting on 3D	K1 - K6	20	1-5
3	Art on 3D Forms – relief work on 3D	K1 - K6	17	1-5
4	Art Installation – recycled art, environmental art	K1 - K6	20	1-5
5	Personal expression	K5 - K6	22	4-5

BOOKS FOR REFERENCE

Allan, Lois. *Contemporary Art in the Northwest*. Roseville: Craftsman House, 1995.

Caplin, Steve, and Adam Banks. *The Complete Guide to Digital Illustration*. New York: Watson – Guptill, 2003.

Drury, Neville. *New Sculpture: Profiles in Contemporary Australian Sculpture*. East Roseville: G + B Arts International, 1993.

Fleishman, Michael. *Exploring Illustration*. Roseville: Thomas Delmar Learning, 2003.

Goud, Laxma. *Sculpture, Bronze and Terracotta*. Mumbai: The Guild Art Gallery, 2006.

Hedger, Michael. *Public Sculpture in Australia*. Roseville: Craftsman House, 1995.

Jackson, Paul. *Paper Pop-Ups*. Massachusetts: Rockport, 1997.

Johnson, Patricia Covo. *Contemporary Art in Texas*. Roseville: Craftsman House, 1995.

Maflin, Andrea, and Simon Laity. *Decorative Paper*. London: Conran Octopus, 1995.

Waal, Edmund De, and Claudia Clare, eds. *The Pot Book*. London: Phaidon, 2011.

Robinson, Lynne, and Richard Lowther. *Stencilling*. London: Conran Octopus, 1995.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork : 40 marks

Assignment : 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/ME/A475												
VII	Course Title: CREATIVE EXPRESSIONS Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 2	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 3	3	3	3	1	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	2	3	2	2	3	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

GRAPHIC DESIGN II PRACTICAL

CODE: 23FA/ME/D575

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To provide fundamentals of packaging design
- To create an awareness of the varied mediums of advertising
- To explore application of design and layout for web page and mobile applications through skill-building exercises

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the elements and principles of graphic design	K1
CO2	apply design principles in contextual thinking and problem solving	K2
CO3	research and ideate creative and effective designs for various applications	K3
CO4	create functional and socially responsible designs	K4
CO5	develop user-friendly interactive designs and prototypes	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Packaging Design 1.1 Materials and design considerations 1.2 Packaging templates, finishes and effects 1.3 Packaging applications	K1 - K6	20	1-5
2	Advertising 2.1 Print communication/advertising 2.2 Social media	K1 - K6	20	1-5
3	2D and Experimental Animation 3.1 Basics of animation 3.2 Motion graphics	K1 - K6	20	1-5

UNIT	CONTENT	CL	Hrs	CO
4	Web Page Planning 4.1 Composition & layout 4.3 Web page prototype	K1 - K6	15	1-5
5	Mobile Applications 5.1 User-journey, wireframes 5.2 Screen layouts 5.3 Prototype	K1 - K6	16	1-5

BOOKS FOR REFERENCE

Beaird, Jason. *The Principles of Beautiful Web Design*. 2nd edition, Sitepoint, 2010.

Cossu, Matteo. *1000 Ideas by 100 Graphic Designers*. Massachusetts: Rockport, 2009.

Goldberg, Eric. *Character Animation Crash Course!* Los Angeles: Silan-James Press, 2008.

Grant Design Collaborative. *1000 More Graphic Elements*. Massachusetts: Rockport, 2009.

Groth, Chuck. *Exploring Packaging Design*. New York: Thomson, 2006.

Jones, John Philip, ed. *The Advertising Business: Operations, Creativity, Media Planning, Integrated Communications*. California: Sage, 1999.

Livingston, Alan and Isabella Livingston. *Dictionary of Graphic Design and Designers: Third Edition*. London: Thames and Hudson World of Art, 2012.

Point-Of-Purchase Design Annual 51: The 39th Merchandising Awards. New York: Retail Reporting, 1997.

Rodgers, Paul and Alex Milton. *Product Design*. London: Laurence King, 2011.

Roman, Kenneth and Jane Maas. *How to Advertise: What Works, What Doesn't, and Why*, 3rd edition, London: Kogan Page, 2003.

Shaqqiang, Wang. *Wrap It Up: Creative Structural Packaging Design*. China: Hoaki Books, 2021

Whitaker, Harold, and John Halas. *Timing for Animation, 40th Anniversary Edition*. Boca Raton: CRC Press, 2021.

Williams, Richard. *The Animator's Survival Kit: A Manual of Methods, Principles and Formulas for Classical, Computer, Games, Stop Motion and Internet Animators*. London: Faber & Faber, 2009.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork : 40 marks

Assignment : 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Referencing and thumbnails	10	K1 - K2
Design Development	30	K3 - K6
Execution and presentation	10	K3 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Referencing and thumbnails	10	K1 - K2
Design Development	30	K3 - K6
Execution and presentation	10	K3 - K6

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/ME/D575												
VII	Course Title: GRAPHIC DESIGN II PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

NEW MEDIA PRACTICAL

CODE: 23FA/ME/A575

CREDITS: 5

L T P: 0 0 7

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To provide an exposure to new media /digital media, thereby widening the scope for personal expression
- To enable an exploration of the dynamics between art, science and technology
- To stimulate an exploration of video art
- To enable an understanding of kinetic and interactive art
- To encourage students to experience and present art as performance

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the potential and scope of non-traditional art	K1, K2
CO2	engage with art through performance	K3
CO3	investigate and incorporate digital media and technology in art	K4
CO4	conceptualise and create non-traditional art	K5
CO5	develop a personal style that foregrounds contemporary media and technology	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Digital Art	K1 – K6	12	1-5
2	Exploring Sound and Light	K1 - K6	20	1-5
3	Video Art	K1 - K6	17	1-5
4	Kinetic and Interactive Art	K1 - K6	20	1-5
5	Performance Art	K1 - K6	22	1-5

BOOKS FOR REFERENCE

Allan, Lois. *Contemporary Art in the Northwest*. Roseville: Craftsman House, 1995.
Martin, Sylvia. *Video Art*. Germany: Taschen GmbH, 2006.
Caplin, Steve, and Adam Banks. *The Complete Guide to Digital Illustration*. New York: Watson – Guptill, 2003.
Rush, Michael. *New Media in Art*. London: Thames & Hudson, 2005.
Stockman, Steve. *How to Shoot Video That Doesn't Suck*. New York: Workman Publishing, 2011.
Computer Graphics. New York: Rockport and Allworth Press, 1992.
Drury, Neville. *New Sculpture - Profiles in Contemporary Australian Sculpture*. East Roseville: G + B Arts International, 1993.
Hedger, Michael. *Public Sculpture in Australia*. Roseville: Craftsman House, 1995.
Johnson, Patricia Covo. *Contemporary Art in Texas*. Roseville: Craftsman House, 1995.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Classwork 40 marks
Assignment 10 marks

Rubrics for evaluation of classworks and assignment	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

End Semester Submission: Total Marks: 50

A set of works will be prescribed for end semester assessment. These works should not have been part of the continuous assessment.

Rubrics for evaluation	Marks	Cognitive Level
Research and process	10	K1 - K2
Execution – use of media, techniques	20	K3 - K4
Personal style and originality	20	K5 - K6

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23FA/ME/A575												
VII	Course Title: NEW MEDIA PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

INDIAN CRAFT AND FOLK ART TRADITIONS

CODE: 23FA/MC/CF85

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce craft and folk art traditions of India
- To provide an understanding of indigenous art used in performance and practiced as ritual
- To enable an appreciation of select textile, metal, wood, and other crafts
- To foster an appreciation of the visual aspects of craft and folk art and thereby expand the scope of design seeing and artistic expression

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define key terms; list crafts and folk art traditions	K1
CO2	explain characteristics of crafts and folk art traditions	K2
CO3	describe techniques and processes used in craft making	K3
CO4	compare the form and visual identity of crafts and folk art	K4
CO5	evaluate craft and folk-art traditions in the context of regional, social and cultural practices	K5
CL Cognitive Level K1 – Knowledge, K2 - Understand, K3 – Apply, K4 – Analyse, K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Pictorial Traditions 1.1 Art used in performance: phad, patta paintings of Bengal, leather puppets of Andhra, kaavad 1.2 Ritual and Religious art: Warli, Madhubani, Gond, Pithora, kolam, kalamezhuthu, pattachitra of Orissa, Tanjore Painting	K1 - K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Textile and Fibre Traditions 2.1 Woven traditions: Benaras, baluchari, jamdani, kota doria, Paithani, Chanderi and Kancheepuram, Kani shawls 2.2 Dyed, printed and painted traditions: Madurai sungadi, ikkat and patola, ajrakh, bandhani and lehreiya, block printing of Rajasthan, kalamkari, pichwai 2.3 Embroidery and applique: Kashmiri kashida, phulkari, chikankari, zardosi, kutchi, kantha, sujani, khatwa, kasuti, Toda	K1- K5	20	1-5
3	Metal Crafts 3.1 Metal ware: bidri, lamps of Tamil Nadu 3.2 Images and reliefs: dhokra, iron craft of Bastar, Tanjore art plate 3.3 Jewellery: thewa, meenakari, Cuttacki tarkashi	K1- K5	10	1-5
4	Wood Crafts 4.1 Carving: wood-inlay of Karnataka, wood carving of Kashmir, toys of kondapalli 4.2 Lacquer ware: Channapatna toys	K1- K5	10	1-5
5	Crafts from Other Materials 5.1 Stone and clay: pacchikari of Agra, Jaipur blue pottery, longpi of Manipur, ayyanar horses of Tamil Nadu and Bankura horses of Bengal 5.2 Fibre crafts: kottan of Chettinad, mats of Pattamadai 5.3 Paper: sanjhi of Mathura, papier mache of Kashmir	K1- K5	10	1-5

BOOKS FOR STUDY

Jaitly, Jaya. *Crafts Atlas of India*. New Delhi: Niyogi Books, 2012.

Karolia, Anjali. *Traditional Indian Handcrafted Textiles: History, Techniques, Processes, Designs - Vol. I & II*. New Delhi: Niyogi Books, 2019.

Ranjan, Aditi, and M. P. Ranjan. *Crafts of India: Handmade in India*. New Delhi: Council of Handicraft Development Corporations, 2007.

Singh, Martand, ed. *Handcrafted Indian Textiles*. New Delhi: Roli Books, 2000.

Varadarajan, Lotika, and Krishna Amin-Patel. *Of Fibre and Loom: The Indian Tradition*. New Delhi: Manohar, 2008.

BOOKS FOR REFERENCE

- Aryan, Subhashini. *Unknown Masterpieces of Indian Folk and Tribal Art*. Gurgaon: K C Aryan's Home of Folk Art, 2005.
- Crill, Rosemary. *Indian Ikat Textiles*. New York: Weatherhill, 1998.
- Dallapiccola, Anna L., ed. *Indian Painting: The Lesser-known Traditions*. New Delhi: Niyogi Books, 2011.
- Dalmia, Yashodhara. *The Painted World of the Warlis: Art and Ritual of the Warli Tribes of Maharashtra*. New Delhi: Lalit Kala Akademi, 1988.
- Ghosh, G. K., and Shukla Ghosh. *Indian Textiles: Past and Present*. New Delhi: APH Publishing Corporation, 2011.
- Gupta, Charu Smita. *Indian Folk and Tribal Paintings*. New Delhi: Roli Books, 2008.
- Jain, Jyotindra. *Painted Myths of Creation: Art and Ritual of an Indian Tribe*. New Delhi: Lalit Kala Akademi, 1984.
- Mathur, Kamlesh. *Crafts and Craftsmen*. Jaipur: Pointer Publishers, 2004.
- Mohanty, B. *Pata – Paintings of Orissa*. New Delhi: Publications Division, 1984.
- Naik, Shailaja D. *Traditional Embroideries of India*. New Delhi: APH Publishing Corporation, 2012.
- Postel, Michel, and Zarine Cooper. *Bastar Folk Art: Shrines, Figurines and Memorials*. Mumbai: Project for Indian Cultural Studies Publication VIII, 1999.
- Ramani, Shakuntala. *Kolam and other Ritual Arts of India*. Chennai: Oxygen Books, 2016.
- Ramaswamy, Visalakshi. *The Kottan: The Palmyra Basket of Chettinad*. Chennai: M.Rm.Rm. Cultural Foundation, 2013.
- Sabnani, Nina. *Kaavad Tradition of Rajasthan: A Portable Pilgrimage*. New Delhi: Niyogi Books, 2014.
- Santra, Tarapada. *Folk Arts of West Bengal and the Artist Community*. New Delhi: Niyogi Books, 2011.
- Shrikant, Usha. *Ethnic Embroidery of India*. Mumbai: Samata, 1998.
- Tyabji, Laila. *Threads & Voices: Behind the Indian Textile Tradition*. New Delhi: Marg, 2007.
- Venkatesan, Soumhya. *Craft Matters: Artisans, Development and the Indian Nation*. New Delhi: Orient Blackswan, 2009.

WEB SOURCES

- <https://www.dsourc.in/>
- <https://sarmaya.in>
- <https://www.sahapedia.org/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/MC/CF85												
VIII	Course Title: INDIAN CRAFT AND FOLK ART TRADITIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	1	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	1	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	1	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	1	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	1	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

ART AND ITS HISTORIES

CODE: 23FA/MC/AH85

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To consider art using varied perspectives through case studies addressing two different genres, namely colonialism and gender
- To understand how European colonizers interpreted precolonial art
- To discuss the position of art and artists in colonial and postcolonial cultures
- To examine works by 16th and 17th-century Italian women artists, focusing on the conventions of feminine portraiture of the time
- To investigate the role of gender difference in the production, consumption, and interpretation of works of art and to contemplate the notion of the other art history by considering non-western women of feminist art

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

CO	DESCRIPTION	CL
CO1	define key terms of ‘seeing’; list key writers on pre-colonial art; and name pioneering women artists	K1
CO2	explain how art can be interpreted in various ways creating multiple histories	K2
CO3	demonstrate an understanding of ways of seeing visuals; analyse the impact of colonialism on the appreciation of art of the colonised; examine authorship and representation of/by women artists	K3
CO4	compare writings on pre-colonial art; evaluate the role of the artist in the colonial and post-colonial periods; examine gender and art	K4
CO5	discuss writing about pre-colonial Indian art from colonial and postcolonial viewpoints; investigate the role of gender difference in the production, consumption, and interpretation of works of art	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Ways of Seeing Art, aura and authenticity	K1 - K5	5	1-5
2	Art in Pre-colonial India 2.1 Coloniser's viewpoint – James Fergusson 2.2 Revising colonialist viewpoints – A K Coomaraswamy 2.3 Reversing the direction of the colonial gaze – Partha Mitter	K1 - K5	20	1-5
3	Art and Artists in Colonial and Post-colonial Cultures 3.1 Artist as colonial subject – internationalist approach before independence 3.2 Artist as post-colonial subject – from the periphery to the centre	K1 - K5	10	1-5
4	Gender and Art: 16th-18th centuries 4.1 Portrait of the artist as a woman 4.2 Gendering the genres 4.3 Gender, genres and academic art	K1 - K5	15	1-5
5	Gender and Art: 20th century onwards 5.1 Parisian avant-garde and 'feminine' art 5.2 The Other Art History - Non-Western Women of Feminist Art – Postcolonial feminism: Shirin Neshat, Mithu Sen, Juane Quick-to-See Smith, Pushpamala N, Alex Mawimbi, Anida Yoeu Ali	K1 - K5	15	1-5

BOOKS FOR STUDY

Berger, John. *Ways of Seeing*. London: Penguin, 1972.

King, Catherine (ed.) *Views of Difference: Different Views of Art*. Art and its Histories series, New Haven: Yale University Press, 1999.

Perry, Gill (ed.) *Gender and Art*. Art and its Histories series, New Haven: Yale University Press, 1999.

BOOK FOR REFERENCE

Barker, Emma., etal. *The Changing Status of the Artists*. Art and it Histories series, New Haven: Yale University Press, 1999.

Coomaraswamy, K. Ananda. *History of Indian and Indonesian Art*. New York: Dover Publications, 1927.

Davis, H. Richard. *Lives of Indian Images*. USA: Princeton University Press, 1999.

Fergusson, James. *History of Indian and Eastern Architecture*. Delhi: Oriental Publishers, 1967.

Guha-Thakurta, Tapati. *The Making of a New Indian Art: Artists, Aesthetics and Nationalism in Bengal, c. 1850-1920*. New York: Cambridge University Press, 1992.

Guha-Thakurta, Tapati. *Monuments, Objects, Histories: Institutions of Art in Colonial and Postcolonial India*. Delhi: Permanent Black, 2004.

Havell, E.B. *The Ideals of Indian Art*. Delhi: Indological Book House, 1972.

Hessel, Katy. *The Story of Art Without Men*, London: Hutchinson Heinemann, 2022.

Kramrisch, Stella. *The Hindu Temple*. 2 vols. Calcutta: University of Calcutta, 1946.

Mitter, Partha. *Art and Nationalism in Colonial India: 1850–1922*. New York: Cambridge University Press, 1994.

Mitter, Partha. *Much Maligned Monsters: History of European Reactions to Indian Art*. Oxford: Oxford University Press, 1977.

Mullins, Charlotte. *A Little Feminist History of Art*, London, Tate, 2019.

Pal, Pratapaditya. ed. *Rabindranath Tagore: Something Old, Something New*. Mumbai: Marg Publications, 2011.

Parimoo, Ratan. *The Paintings of the Three Tagores: Abanindranath Tagore, Gaganendranath Tagore, Rabindranath Tagore*. Baroda: University Publications, 1973.

Said, W. Edward. *Orientalism*. London: Penguin Books, 1978.

Thompson, Jon. *How to Read a Modern Painting: Understanding and Enjoying the Modern Masters*, London: Thames & Hudson, 2007.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 1½ Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (5)	1 X 5 = 5	1 K1 question	2 K1 questions
B – 100 words	K2 (5)	1 X 5 = 5	1 K2 question	2 K2 questions
C – 300 words	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 questions
D – 300 words	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	50	5	10

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A – 100 words	K1 (10)	2 X 5 = 10	2 K1 questions	3 K1 questions
B – 100 words	K2 (10)	2 X 5 = 10	2 K2 questions	3 K2 questions
C – 300 words	K3 (30)	2 X 15 = 30	2 K3 questions	3 K3 questions
D – 300 words	K4 (30)	2 X 15 = 30	2 K4 questions	3 K4 questions
E – 600 words	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 questions
	Total	100	9	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FAMCAH85												
VIII	Course Title: Arts and its Histories												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	-	2	3	3	3	3	3	3
CO 2	3	3	3	3	3	-	2	3	3	3	3	3	3
CO 3	3	3	3	3	3	-	2	3	3	3	3	3	3
CO 4	3	3	3	3	3	-	2	3	3	3	3	3	3
CO 5	3	3	3	3	3	-	2	3	3	3	3	3	3
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT – DESIGN

CODE: 23FA/ME/D689

CREDITS: 9

L T P: 0 0 15

TOTAL TEACHING HOURS: 195

OBJECTIVES OF THE COURSE

- To enable students to build on experiences gained in previous courses and undertake a major project
- To give students the option to choose a practice or theory-based project
- To facilitate creative design ideas that are executed to professional standards
- To facilitate critical thinking

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	propose and plan a research-led body of work	K1, K2
CO2	explore materials, techniques, styles; develop mockups/samples	K3
CO3	develop designs; document the design process	K4
CO4	conceptualise design solutions for varied applications	K5
CO5	create an original line of work	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

APPROVAL OF PROJECT PROPOSAL (Practical and Theory Projects)

- Students will present **two** proposals for a design or theory-based project at the end of the seventh semester
- The proposals should be presented in the format given by the Department
- The proposals will be approved and project guides assigned at the end of the seventh semester
- Students who are unable to complete the project within the scheduled time will have to re-register in the forthcoming semester

GUIDELINES FOR PRACTICAL OPTION

- The project can be based in any design related area
- The student should maintain a work book with references, sketches, samples etc. on a regular basis as proof of work in progress

- **Review by project guide**

Student work will be reviewed every week by the project guide during the semester. Works completed and presented without approval will not be allowed for final submission.

- **Review by faculty panel**

A faculty panel will conduct 3 reviews of ongoing work at scheduled dates. Students should be present at all reviews. Workbook and ongoing work will be presented and assessed at the panel reviews. In case of work being outsourced, a clear idea of the work in progress should be presented in the form of samples, photos, etc.

ASSESSMENT OF PRACTICAL PROJECTS

Continuous assessment : 50 marks

Assessment by project guide : 35 marks

Assessment by faculty panel : 15 marks

End semester evaluation : 50 marks

Evaluation by project guide : 25 marks

Evaluation by external examiner : 25 marks

GUIDELINES FOR THEORY OPTION

- The project can be based in any design related area

- **Review by project guide**

Research, data collection and writing will be reviewed every week by the project guide during the semester.

- **Review by faculty panel**

A faculty panel will conduct 3 reviews of ongoing work at scheduled dates. Students should be present at all reviews.

Drafts and ongoing work will be presented and assessed at the panel reviews.

- The emphasis of the theory project will be on primary data collection, analysis and consolidation, supported by field visits, interviews and research. The main body of writing – introduction, chapters and conclusion – should comprise 40 to 45 pages.
- The text should be double-spaced, with the exception of indented block quotes, which can be single-spaced. Bibliographies, endnotes, and itemized lists should also be single spaced.
- The text should be set in Times New Roman, of 12-point size.
- The documentation should be presented in a format given below. It should be hardbound.
- A soft copy of the documentation should be submitted to the department.

FORMAT OF THE DOCUMENTATION

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Visual documentation

ASSESSMENT OF THEORY PROJECTS**Continuous assessment : 50 marks**

Assessment by project guide : 35 marks

Assessment by faculty panel : 15 marks

End semester evaluation : 50 marks

Evaluation by project guide : 25 marks

Viva voce by external examiner : 25 marks

Rubrics for Evaluation	Marks	Cognitive Level
Research statement and methodology	10	K1 - K2
Documentation - text and images	25	K3 - K4
Research findings and analysis	15	K5 - K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/ME/D689												
VIII	Course Title: PROJECT - DESIGN												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT – ART

CODE: 23FA/ME/A689

CREDITS: 9

L T P: 0 0 15

TOTAL TEACHING HOURS: 195

OBJECTIVES OF THE COURSE

- To enable students to build on experiences gained in previous courses and undertake a major project
- To give students the option to choose a practice or theory-based project
- To facilitate the strengthening of a personal style of expression
- To facilitate critical thinking

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	propose a research-led body of work	K1, K2
CO2	explore materials, techniques and styles	K3
CO3	document the work process	K4
CO4	develop a personal style of expression	K5
CO5	conceptualise and create original artwork or series	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

APPROVAL OF PROJECT PROPOSAL (Practical and Theory Projects)

- Students will present **two** proposals for an art or theory-based project at the end of the seventh semester
- The proposals should be presented in the format given by the Department
- The proposals will be approved and project guides assigned at the end of the seventh semester
- Students who are unable to complete the project within the scheduled time will have to re-register in the forthcoming semester

GUIDELINES FOR PRACTICAL OPTION

- The project can be based in any art related area
- The student should maintain a work book with references, sketches, samples etc. on a regular basis as proof of work in progress

- **Review by project guide**

Student work will be reviewed every week by the project guide during the semester. Works completed and presented without approval will not be allowed for final submission.

- **Review by faculty panel**

A faculty panel will conduct 3 reviews of ongoing work at scheduled dates. Students should be present at all reviews. Workbook and ongoing work will be presented and assessed at the panel reviews. In case of work being outsourced, a clear idea of the work in progress should be presented in the form of samples, photos, etc.

ASSESSMENT OF PRACTICAL PROJECTS

Continuous assessment : 50 marks

Assessment by project guide : 35 marks

Assessment by faculty panel : 15 marks

End semester evaluation : 50 marks

Evaluation by project guide : 25 marks

Evaluation by external examiner : 25 marks

GUIDELINES FOR THEORY OPTION

- The project can be based in any art related area

- **Review by project guide**

Research, data collection and writing will be reviewed every week by the project guide during the semester

- **Review by faculty panel**

A faculty panel will conduct 3 reviews of ongoing work at scheduled dates. Students should be present at all reviews.

Drafts and ongoing work will be presented and assessed at the panel reviews.

- The emphasis of the theory project will be on primary data collection, analysis and consolidation, supported by field visits, interviews and research. The main body of writing – introduction, chapters and conclusion – should comprise 40 to 45 pages

- The text should be double-spaced, with the exception of indented block quotes, which can be single-spaced. Bibliographies, endnotes, and itemized lists should also be single spaced

- The text should be set in Times New Roman, of 12-point size

- The documentation should be presented in a format given below. It should be hardbound

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ASSESSMENT OF THEORY PROJECTS**Continuous assessment : 50 marks**

Assessment by project guide : 35 marks

Assessment by faculty panel : 15 marks

End semester evaluation : 50 marks

Evaluation by project guide : 25 marks

Viva voce by external examiner : 25 marks

Rubrics for Evaluation	Marks	Cognitive Level
Research statement and methodology	10	K1 - K2
Documentation - text and images	25	K3 - K4
Research findings and analysis	15	K5 – K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FA/ME/P689												
VIII	Course Title: PROJECT - ART												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Courses offered by Department of Fine Arts to students of
B.A. / B.Sc. / B Com. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

RECYCLED ART PRACTICAL

CODE: 23FA/GE/RA22

CREDITS: 2

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide an awareness of recycling junk material into art forms
- To enable upcycling of waste materials creatively.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	understand the relevance of recycling and demonstrate an eco-friendly approach	K 1
CO2	explore diverse waste materials	K 2
CO3	make use of recycled / junk material to create compositions	K 3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Materials	K1	2	1-3
2	Textiles and Paper	K 1 – 3	12	1-3
3	Plastic, Metals and other Materials	K 1 – 3	12	1-3

BOOKS FOR REFERENCE

Bawden, Juliet. *The Art and Craft of Applique*. London: Mitchell Beazley, 1991.

Jackson, Paul. *Paper Pop-Ups*. Rockport: Rockport, 1997.

Larbalestier, Simon. *The Art and Craft of Montage*. London: Mitchell Beazley, 1993.

Lively, Kate, ed. *Making Great Papercrafts Origami Stationery and Gift Wraps*. New Delhi: OM Books International, 2008.

Ziegler, Kathleen, and Nick Greco. *Paper Sculpture: A Step-by-Step Guide*. Rockport: Rockport, 1994.

PATTERN OF ASSESSMENT

- There will be no end semester examination
- Four prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 marks

Rubrics for evaluation	Marks	Cognitive Level
Explore media/material and process	20	K1 – K2
Execution – use of media, techniques	30	K2 – K3

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Courses offered by Department of Fine Arts to students of
B.A. / B.Sc. / B Com. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

CREATIVE PRINTING PRACTICAL

CODE: 23FA/GE/CP22

CREDITS: 2

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide an awareness of basic printing methods
- To explore the medium in a creative manner
- To learn the techniques of stamping, stencilling and monoprinting

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	outline the basic printing processes as mediums of expression	K1
CO2	understand the printing techniques of stamping, stencilling and mono-printing	K2
CO3	demonstrate the ability to use basic printing methods and develop creative artworks	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Stamping	K1 – K3	6	1 - 3
2	Stencilling	K1 – K3	10	1 - 3
3	Monoprints	K1 – K3	10	1 - 3

BOOKS FOR REFERENCE

Martin, Judy. *The Encyclopedia of Printmaking Techniques*. London: A Quarto Book, 1993.

Robinson, Lynne and Richard Lowther. *Stencilling*. London: Conran Octopus, 1995.

Visser, Jill and Michael Flinn. *Stencilling: Techniques for Interiors, Furniture and Objects*. London: Macdonald Orbis, 1988.

PATTERN OF ASSESSMENT

- There will be no end semester examination
- Four prescribed course works completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 marks

Rubrics for evaluation	Marks	Cognitive Level
Explore media/material and process	20	K1 – K2
Execution – use of media, techniques	30	K2 – K3

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Courses offered by Department of Fine Arts to students of
B.A. / B.Sc. / B Com. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

FABRIC ART PRACTICAL

CODE: 23FA/GE/FA22

CREDITS: 2

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide an exposure to textile art and ornamentation
- To give an awareness of fabric collage
- To introduce stencil printing and fabric painting techniques

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	List different ways of using fabric to create art	K1
CO2	Understand the process of drawing compositions suited for fabric	K2
CO3	Utilize fabric as a medium of creative expression	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Textile Collage	K1-K3	7	1 - 3
2	Stencil Printing	K1-K3	10	1 - 3
3	Fabric Painting	K1-K3	9	1 - 3

BOOKS FOR REFERENCE

Innes, Miranda. *Fabric Painting*. London: Dorling Kindersley, 1996.

Parchure, J.W. *Fundamentals of Designing for Textiles and Other End Uses*. India: Woodhead Publishing India, 2009.

Robinson, Lynne and Richard Lowther. *Stencilling*. London: Conran Octopus, 1995.

PATTERN OF ASSESSMENT

- There will be no end semester examination
- Four prescribed course works completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 mark

Rubrics for evaluation	Marks	Cognitive Level
Explore media/material and process	20	K1 – K2
Execution – use of media, techniques	30	K2 – K3

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Courses offered by Department of Fine Arts to students of
B.A. / B.Sc. / B Com. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

COLLAGE PRACTICAL

CODE: 23FA/GE/CL22

CREDITS: 2

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To explore collage as a medium of two-dimensional expression through the use of various materials
- To creatively explore themes such as nature, still life and portraits

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	demonstrate the ability to use various materials and techniques to create collages	K1
CO2	understand collage as a medium of artistic expression	K2
CO3	creatively use collage techniques in varied thematic compositions	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Montage	K1 – K3	3	1 - 3
2	Femmage	K1 – K3	14	1 - 3
3	Decoupage	K1 – K3	9	1 - 3

GUIDELINES

- Coursework prescribed will comprise thematic compositions based on nature, still life and portraits
- Printouts of drawings may be used to construct the collages

BOOKS FOR REFERENCE

Balu, V. *Srishti*. New Delhi: Rupa, 1991.

French, Brian. *Principles of Collage*. London: Mills & Boon, 1969.

Larbalestier, Simon. *The Art and Craft of Montage*. London: Mitchell Beazley, 1993.

Maflin, Andrea. *Decorative Paper*. London: Conran Octopus, 1995.

PATTERN OF ASSESSMENT

- There will be no end semester examination
- Four prescribed course works completed and presented to the course teacher on scheduled dates during the semester will be evaluated

Rubrics for evaluation	Marks	Cognitive Level
Explore media/material and process	20	K1 – K2
Execution – use of media, techniques	30	K2 – K3

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Courses offered by Department of Fine Arts to students of
B.A. / B.Sc. / B Com. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

JEWELLERY FROM ALTERNATE MATERIALS PRACTICAL

CODE: 23FA/GE/JA22

CREDITS: 2

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To enable students to create jewellery from alternate materials
- To introduce the basic methods of making jewellery
- To explore creatively the materials available to make jewellery

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	explore alternate materials for jewellery	K1
CO2	translate the materials available to make jewellery	K2
CO3	use different methods to create jewellery	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply 		

UNIT	CONTENT	CL	Hrs	CO
1	Traditional Materials and Alternate Materials	K1	2	1-1
2	Techniques and Processes	K2	14	1-2
3	Fabrication	K3	10	1-3

GUIDELINES

Students can explore the following materials: paper; fibre and fabric; beads of clay, wood and metal

BOOKS FOR REFERENCE

Dormer, Peter and Ralph Turner. *The New Jewellery: Trend Plus Traditions*. London:

Thames and Hudson, 1985.

Fitch, Janet. *The Art and Craft of Jewellery*. London: Mitchell Beazley, 1992.

Gentile, Thomas. *Jewellery*. London: Pan Books, 1973.

Helt, Mary. *Complete Jewellery: Easy Techniques and 25 Great Projects*. London: Collins & Brown, 2009.

Power, Jean. *300 Beading Tips, Techniques and Trade Secrets*. Singapore: Page One Publishing, 2009.

Seecharran, Vannetta. *The Encyclopedia of Contemporary Jewellery Making Techniques*. Singapore: Page One Publishing, 2009.

Watkins, David. *The Best in Contemporary Jewellery*. Switzerland: RotaVision, 1993.

Welsh, Kate Shoup. *Not Your Mama's Beading*. New Jersey: Wiley Publishing, 2006.

PATTERN OF ASSESSMENT

- There will be no end semester examination
- Four prescribed coursework completed and presented to the course teacher on scheduled dates during the semester will be evaluated
- Three best marks will be computed for the final 50 marks

Rubrics for evaluation	Marks	Cognitive Level
Explore media/material and process	20	K1 – K2
Execution – use of media, techniques	30	K2 – K3

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

FASHION CONCEPTS, MANUFACTURE AND RETAIL

CODE: 23FA/UI/FC23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To facilitate independent study of the fashion industry and fashion centres
- To enable an understanding of apparel production
- To provide an overview of fashion retailing

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION
CO1	Discuss general aspects of the fashion industry
CO2	Demonstrate an awareness of international fashion centres
CO3	Discuss salient features of apparel production
CO4	Demonstrate an understanding of fashion accessories
CO5	Discuss fashion retail strategies

UNIT	CONTENT	CO
1	Introduction to Fashion 1.1 Fashion development 1.2 Influences on fashion marketing and consumer demand 1.3 Fashion change and consumer acceptance 1.4 Fashion resources	CO 1 - 5
2	International Fashion Centre	CO 1 - 5
3	Apparel Production 3.1 Costing a garment 3.2 Pattern making, production scheduling, spreading and cutting 3.3 Production scheduling 3.4 Garment assembly and preparation for despatch	CO 1 - 5
4	Fashion Accessories 4.1 Footwear, bags, belts, gloves and hosiery 4.2 Jewellery and watches	CO 1 - 5
5	Fashion Retailing 5.1 Retail strategies 5.2 Store-based retail and retail organisations 5.3 Non-store retail	CO 1 - 5

BOOK FOR STUDY

Frings, Gini Stephen. *Fashion: From Concept to Consumer*. New Delhi: Dorling Kindersley, 2009.

BOOKS FOR REFERENCE

Baugh, Gail. *The Fashion Designer's Textile Directory: The Creative Use of Fabrics in Design*. London: Thames and Hudson, 2011.

Diamond, Jay and Ellen Diamond. *Fashion Apparel, Accessories and Home Furnishings*. New Delhi: Dorling Kindersley, 2008.

Fogg, Marnie. *The Fashion Design Directory*. London: Thames and Hudson, 2011.

Gale, Colin and Jasbir Kaur. *Fashion and Textiles*. Oxford: Berg, 2004.

Gardiner, Wendy. *The Encyclopedia of Sewing Techniques*. Kent: Search, 2004.

Ireland, Patrick John. *Encyclopedia of Fashion Details*. London: B T Batsford, 1996.

San Martin, Marcarena. *How to be a Fashion Designer*. Singapore: Paco Asensio, 2009.

Worsley, Harriet. *100 Ideas that Changed Fashion*. London: Laurence King, 2011.

PATTERN OF ASSESSMENT

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF GRAPHIC DESIGN

CODE: 23FA/UI/GD23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To facilitate independent study of the history of graphic design
- To provide an overview of major developments in graphic design

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION
CO1	Understand the discipline of graphic design
CO2	Discuss the development of graphic design as a discipline
CO3	Outline key events that changed the course of graphic design over the centuries
CO4	Discuss graphic design in the modern era
CO5	Identify key developments in the Postmodern era

UNIT	CONTENT	CO
1	Introduction to Graphic Design 1.1 Invention of writing 1.2 Alphabets 1.3 Illuminated manuscripts	1 - 5
2	Graphic Renaissance 2.1 Renaissance graphic design 2.2 Epoch of typographic genius	1 - 5
3	Industrial Revolution 3.1 Typography for an industrial age 3.2 Photography – the new communication tool 3.3 Arts and Crafts movement	1 - 5
4	Modernist Era 4.1 Genesis of twentieth century design 4.2 Influence of Modern art 4.3 Bauhaus and new typography	1 - 5
5	Age of Information 5.1 International typographic style 5.2 Corporate identity and visual systems 5.3 Postmodern design 5.4 Digital revolution	1 - 5

BOOK FOR STUDY

Meggs, B. Philip. *A History of Graphic Design*. New York: John Wiley, 1998.

BOOKS FOR REFERENCE

Blakesley, Rosalind P. *The Arts and Crafts Movement*. London: Phaidon, 2011.

Conway, Hazel. *Design History: a Students' Handbook*. London: Routledge, 1997.

Eskilson, Stephen J. *Graphic Design A History*. 2nd ed. London: Laurence King, 2007.

Fallan, Kjetil. *Design History: Understanding Theory and Method*. New York: Berg, 2010.

Lees-Maffei, Grace, and Rebecca Houze. *The Design History Reader*. New York: Berg, 2010.

PATTERN OF ASSESSMENT

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section A – 4 x 10 = 40 marks (4 out of 6 questions)

Section B – 3 x 20 = 60 marks (3 out of 4 questions)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

**B.Com. DEGREE
COMMERCE
(CHOICE BASED CREDIT SYSTEM)
SHIFT I**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI–600 086

DEPARTMENT OF COMMERCE

PROGRAMME DESCRIPTION

B.Com. (GENERAL)

The B.Com. (General) degree programme equip students with the knowledge and technical skills necessary to understand and participate in the modern business world. The programme allows the students' to critically evaluate and improve decision making skills.

It provides foundation for students who aspire to pursue professional courses such as CA, ICWA, CMA, ACCA, CFA and MBA. It enables the students to equip themselves for careers. It enables them to develop entrepreneurial skills and thus manage their own business effectively. To strengthen their skills and knowledge, workshops, seminars, guest lectures, business quizzes and mock interviews are conducted during the course of study. Apart from the academics, multiple cultural and social activities such as intra-departmental, intercollegiate cultural and social and environmental awareness programmes are conducted for holistic development and to create a sense of community.

VISION OF THE DEPARTMENT

The Department shares the vision of the College and aims at academic excellence integrating ethical, professional and personal skills that promote women to be well equipped to meet the global challenges in the business world.

MISSION OF THE DEPARTMENT

- ❖ To kindle in the students the curiosity to explore and acquire business knowledge pertaining to Commerce.
- ❖ To sensitize students about economic, social and ethical issues prevalent in the business environment.
- ❖ To work towards the integration of quality, creativity and emotional stability of the students.
- ❖ To contribute to the transformation of the less privileged students by making them employable and financially independent.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

B.COM (GENERAL)

On successful completion of the B.Com. Programme, the students will be able to

PSO 1	acquire Fundamental knowledge in the arena of Business Management, Marketing, Accounting and to understand the web based business models and its applications
PSO 2	develop leadership qualities and managerial skills to be globally competent and spearhead entrepreneurial ventures.
PSO 3	be acquainted with principles of various laws relating to formation and conduct of business.
PSO 4	demonstrate interpersonal communication, business etiquette and relationship building skills.
PSO 5	understand the importance of Ethics in Business, Social Responsibility, Corporate sustainability and impact of globalization

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Com. General 2023 - 2024 Shift I														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4									6	8
Part - II														
English	3	4	3	4									6	8
											Total		12	16
Part - III														
Major Core	3	4	4	5	4	5	4	5	4	5	4	5	23	29
	3	4	4	5	4	5	4	5	4	5	4	5	23	29
					4	5	3	4	3	4	4	5	14	18
					3	4	3	4	3	4	3	4	12	16
Allied Core	5	5	5	5	5	6	5	5					20	21
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		107	129
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3	3	3									6	6
Soft Skills (EL)	3	3											3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library								1		1			0	2
Mentoring		1				1		1		1		1	0	5
											Total		4	9
Total	26	30	27	30	24	30	24	30	23	30	25	30	149	180

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23CM/MC/FA13	Financial Accounting	3	3	1	0	3	50	50	100
23CM/MC/PM13	Principles and Practice of Management	3	3	1	0	3	50	50	100
23CM/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
Allied Core offered to students of Commerce(General - Shift I) by Dept. of EC									
23EC/AC/BE15	Business Economics	5	5	0	0	3	50	50	100
SEMESTER-II									
23CM/MC/CT24	Cost Accounting	4	4	1	0	3	50	50	100
23CM/MC/MG24	Marketing	4	4	1	0	3	50	50	100
23CM/AC/BS25	Business Statistics	5	5	0	0	3	50	50	100
23CM/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23CM/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23CM/MC/BL34	Business Law	4	4	1	0	3	50	50	100
23CM/MC/FS34	Financial System	4	4	1	0	3	50	50	100
23CM/MC/MA34	Management Accounting	4	4	1	0	3	50	50	100
23CM/MC/ET33	Business Ethics and Social Responsibility	3	3	1	0	3	50	50	100
23CM/AC/CB35	Computer Applications in Business	5	2	0	4	3	50	50	100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23CM/MC/FM44	Financial Management	4	4	1	0	3	50	50	100
23CM/MC/BK43	Banking Theory and Practice	3	3	1	0	3	50	50	100
23CM/MC/CL44	Company Law	4	4	1	0	3	50	50	100
23CM/MC/HR43	Human Resource Management	3	3	1	0	3	50	50	100
Allied Core offered to students of Commerce (General -Shift I) by Dept. of MT									
23MT/AC/MT45	Mathematics for Commerce	5	5	0	0	3	50	50	100
	Major Elective I								
SEMESTER-V									
23CM/MC/BR54	Business Research	4	4	1	0	3	50	50	100
23CM/MC/IT54	Income Tax Law and Practice	4	4	1	0	3	50	50	100
23CM/MC/EM53	E-Enterprise Management	3	3	1	0	3	50	50	100
23CM/MC/BC53	Business Communication	3	3	1	0	3	50	50	100
	General Elective III								
	SAP / SL								

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. DEGREE: COMMERCE (GENERAL) - SHIFT I

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Interdisciplinary Core (CM and HS) to students of Commerce(Shift I) and History									
23ID/IC/TM55	Tourism Marketing	5	5	1	0	3	50	50	100
SEMESTER-VI									
23CM/MC/CA64	Corporate Accounting	4	4	1	0	3	50	50	100
23CM/MC/SM63	Supply Chain and Logistics Management	3	3	1	0	3	50	50	100
23CM/MC/ED64	Entrepreneurial Development	4	4	1	0	3	50	50	100
23CM/MC/AG64	Auditing	4	4	1	0	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23CM/ME/OB45	Organizational Behaviour	5	5	0	0	3	50	50	100
23CM/ME/AM45	Advertising and Media Management	5	5	0	0	3	50	50	100
23CM/ME/RM45	Retail Management	5	5	0	0	3	50	50	100
23CM/ME/SP45	Security Analysis and Portfolio Management	5	5	0	0	3	50	50	100
23CM/ME/AA45	Advanced Corporate Accounting	5	5	0	0	3	50	50	100
23CM/ME/CB45	Consumer Behaviour	5	5	0	0	3	50	50	100
General Electives									
23CM/GE/FI22	Fundamentals of Investment Planning	2	2	0	0	-	50	-	100
23CM/GE/CC22	Customer Care and Protection	2	2	0	0	-	50	-	100
23CM/GE/SM22	Social Media Marketing	2	2	0	0	-	50	-	100
23CM/GE/BP22	Banking Practices	2	2	0	0	-	50	-	100
23CM/GE/EF22	E-Filing of Returns	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23CM/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23CM/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23CM/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23CM/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23CM/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23CM/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23CM/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23CM/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23CM/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Electives									
23CM/UI/NM23	New Age Marketing	3	0	0	0	3	-	100	100
23CM/UI/CR23	Consumer Rights	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

FINANCIAL ACCOUNTING

CODE: 23CM/MC/FA13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To develop an understanding of international and Indian accounting standards and appreciate the differences between accounting frameworks.
- To provide the students conceptual knowledge about basic concepts of financial accounting.
- To equip the students with the skill in preparing Accounts for different types of business entities.
- To develop the skills to analyse financial statements and make informed business decisions based on the financial information presented.
- To enable students to prepare the financial Statements for internal and external Reporting.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the Conceptual Framework for Preparation of Financial Statements	K1, K2
CO2	apply the accounting concepts related to preparation of financial statements for sole proprietorship and Partnership	K3
CO3	develop the skills to prepare the different accounts with regard to Branch and Departments , Hire purchase and Joint ventures	K4
CO4	solve the financial statements with adjustments, Interdepartmental Transfer of Goods and computation insurance claim for Loss of Stock and Profit.	K5
CO5	create a complete record of Business transactions	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	KL	Hours	CO
1	Conceptual Framework for Preparation of Financial Statements 1.1 Introduction to Accounting Standards and Indian Accounting Standards 1.2 Accounting Standards - International Accounting Standards, Accounting Standards in India – Objectives, Process, Accounting Standards Board, Scope & Application of AS – 1,2,4,5,9,10,26 & 29 in Preparation of Financial Statements 1.3 Difference between Accounting Standards and Indian Accounting Standards 1.4 Preparation of Final Accounts of Sole Proprietor 1.4.1 Closing Entries and Adjustment Entries 1.4.2 Adjustments - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit before and after Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax	K1, K2 K1, K2 K1, K2 K3 – K6	8	1 -5
2	Conversion of Partnership 2.1 Amalgamation – Accounting Procedure 2.1.1 Closing the Books of the Old Firm 2.1.2 Opening the Books of the New Firm 2.2 Conversion of Partnership Firm into a Company and sale to a Company 2.3 Apportionment of Share among the Partners 2.4 Limited Liability Partnership	K1 – K4 K3 – K6 K3 – K5 K1, K2	10	1 -5
3	Branch Accounts and Departmental Accounts 3.1 Branch Accounts 3.1.1 Features 3.1.2 Methods of Accounting - Debtors System, Stock and Debtor System 3.2 Independent Branches – Features, Adjusting Entries in the Books of Head office and Branch 3.3 Departmental Account 3.3.1 Concept and Distinction between Departments and Branches 3.3.2 Preparation of Departmental Accounts Preparation of Departmental Trading and Profit and Loss Account	K1, K2 K3 – K5 K1 – K3 K1 – K3 K3 – K6	12	1 -5

UNIT	CONTENT	KL	Hours	CO
	3.3.3 Inter Departmental Transfer of goods at cost, Cost Plus Profit and at Selling Price and Elimination of Unrealised Profit.			
4	Accounting for Hire Purchase and Joint Venture 4.1 Meaning- Features of Hire Purchase Agreement -Distinction between Hire Purchase and Sale 4.1.1 Interest calculations 4.1.2 Recording transaction in the books of Hire Purchaser and the Hire Vendor 4.2 Default and Repossession - Partial Repossession and Complete Repossession 4.3 Joint Venture- Accounting Procedures	K1 – K3 K1 – K3 K3 – K6 K3 – K5 K1 – K3	10	1-5
5	Insurance Claim for Loss of Stock and for Loss of Profit 5.1 Insurance Claim for Loss of Stock 5.1.1 Concept of Under Insurance and Average Clause 5.1.2 Computation of claim -with Price Change, Consideration of Unusual Selling Line and Price Reduction 5.2 Insurance Claim for Loss of Profit 5.2.1 Concept – Insured and Uninsured Standing, Gross Profit Rate, Short Sales and Increased Cost of Working, Average Clause 5.2.2 Computation of Claim	K1 – K4 K1 – K6 K2 – K5 K1 – K6	12	1-5

BOOKS FOR STUDY

Reddy, T. S and A. Murthy, *Financial Accounting*. Margham, 2023

Gupta R.L and Radhaswamy M, *Advanced Accountancy (Vol. I)* Sultan Chand and Sons, 2013

BOOKS FOR REFERENCE

V.K. Gupta and Gupta R.L, *Financial Accounting (Vol. I)* Sultan Chand and Sons, 2016

Goyal V.K, *Financial Accounting.4th Edition*, PHI, 2012

Jain S. P and K. L Narang, *Practical Problems in Advanced Accountancy*, Kalyani, 2016

Maheshwari S. N and Suneel K Maheshwari, *Financial Accounting 11th Edition*, 2018

M Hanif, A Mukherjee, *Financial Accounting 5th Edition*. Tata Mc Graw Hill 2020

Chatterjee B.D. and Jain Jinender, *Illustrated Guide to Indian Accounting Standards, 6th edition*, Taxmann's 2021

JOURNALS

Journal of the Institute of Chartered Accountants of India.

International Journal of in Management and Financial Accounting

Journal of Accounting and Finance: Research Development Association, Jaipur

Journal of Finance - Sage

Journal of Financial Reporting Accounting, Auditing and Finance

WEB RESOURCES

www.icaai.org

www.emeraldinsight.com

www.accaglobal.com

www.journals.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/FA13												
	Course Title: Financial Accounting												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	1	3	1	1	1	3	2	3	2	1
CO 2	3	2	1	1	3	1	1	1	3	2	2	2	1
CO 3	3	1	1	1	3	1	1	1	3	2	2	2	2
CO 4	3	2	2	1	3	2	1	1	3	2	2	2	2
CO 5	3	2	1	1	3	2	1	1	3	2	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

PRINCIPLES AND PRACTICE OF MANAGEMENT

CODE: 23CM/MC/PM13

CREDITS : 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To acquaint students with the management practices of the past and present
- To provide an understanding of the recruitment, selection, motivation and controlling strategies in organisation
- To provide students a conceptual and practical foundation for managing a business
- To enable students to appreciate the contribution made by Management thinkers
- To familiarise students with the recent development in Management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the concepts of Accountability, Centralization and working together in teams	K1, K2
CO2	apply the acquired knowledge of management in the corporate sector & to comprehend the role of effective leaders in an organization	K3
CO3	analyze the functions of Management in organizations	K4
CO4	apply theoretical concepts into the practical management functions	K5
CO5	develop the leadership potential and managerial skills to make effective managerial decision-making	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hours	CO
1	Introduction to Management Principles 1.1 Meaning, Nature, Scope and Importance of Management 1.2 Management as Science or Art - Management as Profession - Universality of Management 1.3 Management Principles, Functions of Management, Management Roles - Levels of Management, Management Skill- Social Responsibility 1.4 Evolution of Management thoughts, Scientific Management, Fayol's Principles of Management, Bureaucracy, Hawthorne Experiment, Contribution of Peter Drucker.	K1 – K4 K2 – K4 K2 – K5 K3 – K6	10	1-5
2	Planning and Decision Making 2.1 Planning – Meaning, Nature and Importance, Planning Process 2.2 Types of Planning - Measures of Effective Planning 2.3 Barriers to Effective Plan 2.4 Management by Objectives 2.5 Decision Making – Meaning - Types of Decisions - Decision Making Process Individual vs. Group Decision Making - Decision Making Conditions – Creativity	K1 – K3 K2 – K5 K3 – K6 K3 – K6 K3 – K6	12	1-5
3	Organizing, Communication and Human Resources 3.1 Organizing - Meaning, Organization Structure 3.2 Forms of Organization Structure, Departmentation, Task Force- Virtual Organization 3.3 Dynamics of Group Behavior, Influence of Group on Individual and Group Decision Making 3.4 Staffing -Meaning, Man Power Planning, Recruitment and Selection- Training and Development 3.5 Communication- Meaning, Nature, Elements of Communication, Methods of Communication 3.6 Relevance of Information Technology	K1 – K3 K2 – K5 K3 – K6 K3 – K6 K3 – K6	10	1-5

UNIT	CONTENT	CL	Hours	CO
4	Motivation 4.1 Direction- Meaning, Nature, Scope and Principles of Direction, Supervision 4.2 Motivation – Meaning, Nature and Importance of Motivation, Theories of Motivation (Maslow’s Theory of Hierarchical Needs, Herzberg’s two-factor Theory, Vroom’s Theory of Expectancy) 4.3 Job Design, Job Enrichment, Job Satisfaction, Quality of Work Life 4.4 Leadership-Meaning, Importance, Leadership Theories, Leadership Styles	K1 – K3 K2 – K5 K3 – K6 K3- - K6	10	1-5
5	Controlling 5.1 Controlling- Meaning, Importance, Controlling Process, Types of Control 5.2 Essential of Effective Control System, Behavioral Importance of Control - Control Techniques, Quality Circles	K1 – K5 K2 – K6	10	1-5

BOOKS FOR STUDY

Koontz, Heinz Weihrich, A Ramachandra Aryasri, *Principles of Management*, McGraw Hill Education, 2nd Edition, 2015.

L.M. Prasad, *Principles & Practices of Management*, Sultan Chand & Sons, New Delhi, 2020

BOOKS FOR REFERENCE

C.B. Gupta, *Business Management*, Sultan Chand & Sons, 2018

R.S.N. Pillai, S. Kala, *Principles and Practice of Management*, S. Chand & Co., 2013

Parkinson C N and Rustomji M K and Sapre S A, *Great Ideas in Management*, 2010

S. K. Mandal, *Management: Principles and Practice*, Jaico Publishing House, 2013

Khusboo Manoj, *Principles and Practices of Management*, Anmol Publication, 2011

JOURNALS

International Journal of Management Review

Academy of Management Journal

Journal of Management

Strategic Management Journal

SSRN-E-Journal

WEB RESOURCES

www.hbr.org

www.strategy-business.com

www.mindtools.com

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/PM13												
	Course Title: Principles and Practice of Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	2	2	1	1	2	1	3	3	2
CO 2	3	3	2	2	3	3	1	1	3	2	3	3	2
CO 3	3	3	3	2	2	2	2	2	3	2	2	3	2
CO 4	1	3	2	1	3	3	2	2	2	3	2	2	1
CO 5	1	3	2	1	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23CM/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage, 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group Discussions
Group Presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. /B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :****Total Marks:50**

Two Classroom Tasks

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV - ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS ECONOMICS

CODE: 23EC/AC/BE15

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the fundamental concepts, principles, and theories of economics.
- To enable students to analyse and evaluate supply decisions in various business contexts.
- To equip students with the skills to calculate and analyse cost and revenue data for business decision-making.
- To enable students to analyse the behavior of firms and the market outcomes under various market structures.
- To explore the role of government policies in influencing business cycles and promoting macroeconomic stability.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and describe concepts in economics that relate to business decisions making	K1
CO2	identify and illustrate how various micro and macroeconomic factors affect the business environment	K2
CO3	apply the standard analytical tools of applied economic analysis to business situations	K3
CO4	examine the role of consumer and producer behavior and market structures in business decision making	K4
CO5	evaluate the impact and related policy solutions of microeconomic and macroeconomic factors.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1 - K4	18	1-5
	1.1 Basic Economic problems-Role of price Mechanism			
	1.2 Tools for Economic Analysis-Indifference Curves, Isoquants, Budget Line and Production Possibility Frontier	K1 – K4		
	1.3 Law of demand, determinants of demand, change in demand and amount demanded	K1 – K4		
	1.4 Elasticity of demand –Types – Price elasticity – factors influencing elasticity of demand, importance of price elasticity of demand, Income and Cross elasticity. Applications of elasticity of demand	K1 - K5		
	1.5 Estimating demand –Importance and Scope of demand forecasting –Techniques of demand forecasting -complete enumeration survey, sample survey, Delphi Technique, Statistical methods – trend analysis, regression	K1 – K5		
2	Supply and Production	K1 - K4	10	1-5
	2.1 Law of Supply and its determinants			
	2.2 Elasticity of supply	K1 – K3		
	2.3 Short and Long run Production Functions- Law of diminishing returns- Returns to scale	K1 – K4		
	2.4 Producers Equilibrium-Least cost combination of factors	K1 – K4		
3	Cost and Revenue	K1 – K4	12	1-5
	3.1 Concepts of Cost and Revenue			
	3.2 Relation between average and marginal cost curves	K1 – K4		
	3.3 Long run Average Cost Curves and Marginal Cost Curves	K1 – K4		
	3.4 Economies of scale (internal and external economies and diseconomies)	K1 - K4		
	3.5 Break-Even Analysis –An Overview	K1 – K4		
4	Objectives of the Firm and Market Structure	K1- K2	12	1-5
	4.1 Profit, Growth, Sales, Utility Maximization (Brief Knowledge)			
	4.2 Perfect Competition, Monopoly, Monopolistic Competition ,Oligopoly- Features	K1- K5		
	4.3 Equilibrium and price determination under Oligopoly-Kinked Demand, Price Leadership, Cartels	K1 – K4		
	4.4 Importance of advertising and selling costs	K1 – K4		
5	Unit 5 Business Cycles and Policies	K1 – K4	13	1 -5
	5.1 Business Cycles-Meaning, Characteristics, Types, Causes			
	5.2 Inflation-Types of Inflation	K1 - K4		
	5.3 Causes and Effects of Inflation	K1 – K4		
	5.4 Measures to Correct Economic Fluctuations- Monetary and Fiscal Policy	K1 – K5		

BOOKS FOR STUDY

Ahuja H.L. Business Economics Micro, New Delhi: S. Chand and Co, 2010. Gregory, N. Mankiw. Principles of Macroeconomics: New York, Worth Publishers Press 2009

BOOKS FOR REFERENCE

Robert, S. Pindyck, Daniel and L. Rubinfeld, Prem L. Micro Economics. New Delhi: Pearson Education, 2005

Richard. T. Froyen. Macroeconomics-Theories and Policies. New Delhi: Pearson 2012 Samuelson, Paul. A. and Nordhaus William D. Economics, New York: McGraw Hill. 2018 Sundharam K.P.M and E.N Sundharam. Micro Economics. New Delhi: Sultan Chand, 2009. Seth, M.L. Micro Economics, Agra: Lakshmi Narain Agarwal Educational Publishers, 2009.

JOURNALS

Journal of Economics and Business

Journal of Microeconomics

WEB RESOURCES

<http://home.manhattan.edu/~fiona.maclachlan/costcurves.pdf>

<http://www.nber.org/chapters/c2662.pdf>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
C	K5	10	1 x 10 = 10 (600 words each) 1 out of 2 questions

Other Components:

Total Marks: 50

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions – short answers
B	K3	20	4 x 5 = 20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x 10 = 20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/AC/BE15												
I	Course Title: BUSINESS ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 2	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 3	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 4	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 5	3	3	3	2	3	2	2	2	2	3	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

COST ACCOUNTING

CODE: 23CM/MC/CT24

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students an understanding of the basic concepts of cost accounting
- To classify the elements of cost and to determine the various estimates of cost.
- To expose students to the practical application of Costing
- To enable students to ascertain product and service cost through various methods
- To apply various costing techniques in the preparation of tenders and quotations.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	explain the basic concepts of cost accounting	K1
CO2	solve problems relating to Process and Operating Costing	K2
CO3	analyse Material, Labour and Overhead Cost of production	K3
CO4	estimate the cost price, selling price and the profit margin	K4
CO5	prepare Cost Sheets, Tenders and Quotations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Meaning, Objectives and Scope of Cost Accounting 1.2 Introduction to cost Audit and Records and Cost Standards 1.3 Advantages and Limitations of Cost Accounting, Difference Between Financial accounting and Cost Accounting 1.4 Unit Costing - Cost Center and Cost Units- Methods of Costing, Elements of Cost, Cost Concepts and Classification of Cost 1.4.1 Preparation of Cost Sheet, Quotations or Tender	K1, K2 K1, K2 K1, K2	15	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	2.1 Material Cost and Material Control 2.1.1 Computation of Material Cost and Accounting Treatment for Normal, Abnormal Loss 2.2 Essentials of Material Control, Purchase Control – Purchase Procedure 2.2.1 Store Control :Techniques of Inventory Control – Economic Order Quantity, Level Setting 2.2.2 Issue Control: Methods of Material Issue – First In First Out, Last In First Out, Average Cost - Simple and Weighted Average Cost.	K1 –K2 K1 –K4 K1 –K2 K1 – K3 K2 – K5	13	CO1-5
3	Labour Cost, Remuneration and Incentives 3.1 Computation of Labour Cost with Overtime and Idle Time and Computation of Labour Turnover 3.2 Methods of Remuneration- Time Rate System, Piece Rate System, Taylor’s Differential Piece Rate System. 3.3 Incentive Plans -Halsey Premium Plan, Rowan Premium Plan	K1 – K3 K3 – K4 K3 – K4	13	CO1-4
4	Overheads 4.1 Importance and Classification of Overhead Costs 4.2 Apportionment and Allocation of Overheads 4.2.1 Primary Distribution of Overheads 4.2.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non Reciprocal Methods 4.3 Methods of Absorption of Overheads 4.3.1 Direct Labour Hour Rate 4.3.2 Machine Hour Rate 4.3.3 Activity Based Absorption	K1, K2 K3 – K5 K3 – K5	11	CO1-5
5	Process and Operating Costing 5.1 Process Costing 5.1.1 Meaning and Features of Process Costing 5.1.2 Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage 5.1.3 Inter-Process Profit 5.2 Operating Costing - Transport Costing only 5.3 Activity Based Costing (Theory only)	K1 – K5 K1 – K5 K1 - K2	13	CO1-5

BOOKS FOR STUDY

Jain, S.P. and Narang K.L. *Cost Accounting*. NewDelhi: Kalyan, 2023.

Reddy, T.S and A. Murthy. *Cost Accounting*. Margham, 2020.

BOOKS FOR REFERENCE

M.Y.Khan and P.K.Jain, *Cost Accounting*, McGraw Hill,2017

Maheswari,S.N and S.N.Mittal,*Cost Accounting Theory and Problems, New Delhi:*
Sultan Chand 2015.

Ravi M. Kishore. *Cost and Management Accounting* Taxmann, 2016.

M.N.Arora, Priyanka Katyal. *Cost Accounting*. NewDelhi: Sultan Chand, 2016

WEB SOURCES

icwaijournal@hotmail.com

www.accaglobal.com

JOURNALS

Cost Accounting Standards - The ICWA of India

Management Accountant - The ICWA of India

Indian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/CT24												
	Course Title: Cost Accounting												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	3	3	1	1	1	3	2	3	1	1
CO 2	2	3	2	1	3	1	1	1	3	2	3	1	1
CO 3	3	3	2	1	3	2	1	2	3	2	3	1	1
CO 4	1	3	2	1	3	2	2	2	2	3	3	1	2
CO 5	3	3	2	2	3	2	2	1	3	2	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

MARKETING

CODE: 23CM/MC/MG24

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the role of the marketing function within a firm
- To identify the elements of the marketing mix strategies
- To describe and explain key market segmentation and targeting strategies
- To compare various marketing and pricing strategies
- To recommend and justify an appropriate mix of the 4P's to create a cohesive marketing strategy for a new product

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	comprehend the various functions and roles of Marketing	K1
CO2	examine the varied elements of Marketing Mix	K2
CO3	categorise the processes involved in the Development of a new Product	K3
CO4	compare and contrast the key market segmentation methods and targeting strategies	K4
CO5	develop a pricing/marketing strategy for introducing a new/existing product	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Meaning, Nature, Significance and Marketing Concept Model 1.2 Functions of Marketing - Classification of Marketing	K1 – K2 K3 – K5	10	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Product Planning and Promotion 2.1 Product Planning 2.1.1 Product concept, Policy and Product Mix 2.1.2 Product Life Cycle-Stages, positioning, differentiation 2.1.3 New Product Development- Process 2.2 Promotion 2.2.1 Elements of Promotion Mix - Advertising, Personal Selling, Sales Promotion, Public Relations and Direct Marketing	K1 – K3 K2 – K5 K3 – K5 K3 – K5	14	CO1-3 CO 1-5
3	Pricing and Distribution 3.1 Pricing 3.1.1 Types of Pricing 3.1.2 Factors affecting Pricing 3.2 Distribution 3.2.1 Factors affecting Choice of Channel 3.2.2 Classification of Channel Members - Wholesaler and Retailer	K1 – K3 K2 – K5 K3 – K5 K3 – K5	14	CO1-3 CO 1-5
4	Market Segmentation and Consumer Decision making 4.1 Market Segmentation 4.1.1 Bases of Market Segmentation 4.1.2 Levels of Market Segmentation – Segment, Niche and Local 4.1.3 Market Targeting 4.2 Consumer Decision making 4.2.1 Buying decision process 4.2.2 Factors influencing buyer behaviour	K1 – K5 K1 – K5 K1 – K3 K3 – K5 K3 – K5	14	CO1-5
5	Trends in Marketing – Features and Types 5.1 Digital Marketing 5.2 Social Marketing 5.3 Rural Marketing	K1 – K5 K1 – K5 K1 – K5	13	CO1-5

BOOKS FOR STUDY

Nair, Rajan and Sanjith Nair. *Marketing*. 11th edition, New Delhi: Sultan Chand, 2015
 Kotler Philip. *Marketing* 16th edition. New Delhi: Prentice Hall of India, 2022

BOOKS FOR REFERENCE

Gandhi J.C. *Marketing*. New Delhi: Tata McGraw Hill, 2009
 Varshney. R.L, Dr. S.L.Gupta. *Marketing Management*. Himalaya Publishers
 William J. Stanton, Micheal J. Etzel, Bruce J. Walker. *Fundamentals of Marketing*, New Delhi: Mc Graw Hill, 2009
 Kavitha Sharma, Dr.Swati Agarwal, *Principles of Marketing*, Taxmann's Publication, 2018

WEB SOURCES

www.yourarticlelibrary.com

www.boundless.com

www.learnmarketing.net

JOURNALS

Journal of Marketing- American Marketing Association

Journal of Marketing Education

International Journal of Marketing Studies

Indian Journal of Marketing

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	$2 \times 2 = 4$	2 K1 question	2 K1 question
B	K2 (6)	$3 \times 2 = 6$	3 K2 question	3 K2 question
C	K3 (10)	$1 \times 10 = 10$	1 K3 question	2 K3 question
D	K4 (10)	$1 \times 10 = 10$	1 K4 question	2 K4 question
E	K5 (20)	$1 \times 20 = 20$	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	$5 \times 2 = 10$	5 K1 question	5 K1 question
B	K2 (10)	$5 \times 2 = 10$	5 K2 question	5 K2 question
C	K3 (20)	$2 \times 10 = 20$	2 K3 question	3 K3 question
D	K4 (20)	$2 \times 10 = 20$	2 K4 question	3 K4 question
E	K5 (40)	$2 \times 20 = 40$	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/MG24												
	Course Title: Marketing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	2	2	1	3	2	1	2	1
CO 2	3	3	2	2	2	3	3	1	3	2	1	2	1
CO 3	3	3	3	2	2	3	3	1	2	3	2	3	2
CO 4	2	3	3	2	2	3	2	2	2	1	2	3	3
CO 5	2	3	2	2	2	2	2	2	2	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

BUSINESS STATISTICS

CODE: 23CM/AC/BS25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To give a practical exposure to the students on the various statistical methods
- To enable students to understand, analyse and interpret the data using various statistical tools and techniques
- To equip the students to apply the various forecasting techniques
- To facilitate rational decision making through systematic analysis and interpretation
- To educate the students on the effective and efficient application of various statistical tools associated with research in business fields

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	demonstrate knowledge on various statistical techniques	K1
CO2	compute the statistical parameters to forecast business trends	K2
CO3	apply parametric and non-parametric tests in hypothesis testing	K3
CO4	analyse the statistical tools and techniques to arrive at rational decisions	K4
CO5	undertake research in various business fields	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Analysis of Time Series 1.1 Utility and Component of Time Series 1.2 Methods of Measuring Trend – Graphic method, Semi Average method, Moving Average method, method of Least Squares, Second Degree Parabola and Exponential trends	K1 – K2 K2 – K5 K2 – K5	14	CO 1-3 CO1-5

UNIT	CONTENT	CL	Hrs	CO
	1.2.1 Shifting the trend origin 1.2.2 Conversion of annual trend values to monthly values 1.3 Measurement of Seasonal Variation- Method of Simple Averages, Ratio-to-Trend method, Ratio-to-Moving Average method, Link Relative method.			
2	Correlation and Regression 2.1 Simple Linear Correlation Analysis – Karl Pearson’s Co- Efficient and Spearman’s Rank Correlation, Bi-variate Analysis 2.2 Partial and Multiple Correlations 2.3 Regression Analysis and Regression Equations and Estimation, Bi-variate Analysis	K1 – K5 K1 – K4 K2 – K5	15	CO1-5
3	Test of Hypothesis 3.1 Procedure for Testing Hypothesis 3.2 Test of Significance for Large Sample 3.3 Test of Significance for Small Sample	K1 – K2 K1 – K4 K2 – K5	12	CO1-5
4	Chi- square Test 4.1. Meaning and Conditions for applying Chi – Square Test 4.2 Application, Uses and Limitations of Chi – Square Test 4.2.1 Test of Homogeneity 4.2.2 Test of Independence 4.3 Yates Correction	K1 – K2 K1 – K5 K1 – K2	12	CO1-5
5	Analysis of Variance 5.1 Variance Ratio Test 5.2 Assumption of Analysis of Variance 5.3 Techniques of Analysis of Variance 5.3.1 One Way Classification Model 5.3.2 Two Way Classification Model	K1 – K3 K1 - K2 K3 – K5	12	CO1-5

BOOKS FOR STUDY

Gupta S.P., *Statistical Methods*, New Delhi, Sultan Chand and Sons, 2012
 Beri, G.C., *Business Statistics*, New Delhi, Tata Mc Graw Hill Publishing Company Ltd., 2017

BOOKS FOR REFERENCE

Agarwal Y.P., *Statistical Method, Concept, Applications and Computations*, New Delhi, Sterling Publishers Ltd., 2012

Pillai R.S.N. & Bagavathy, V., *Statistics*, 13th edition, New Delhi, Sultan Chand & Sons, 2010

Sharma J.K., *Business Statistics*, New Delhi, 1st edition, Pearson Education (Singapore), Pvt., Ltd., Indian Branch, 2

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/AC/BS25												
	Course Title: Business Statistics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	1	3	1	1	1	3	1	1	2	1
CO 2	2	2	3	1	2	1	1	1	3	1	1	2	1
CO 3	3	2	3	1	3	1	1	1	3	1	2	2	2
CO 4	2	2	3	1	2	2	1	1	3	1	1	2	1
CO 5	3	2	3	1	3	3	1	1	2	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23CM/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23CM/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes rint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

BUSINESS LAW

CODE: 23CM/MC/BL34

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the students to the legal environment of Business
- To provide a comprehensive knowledge to the students on the procedural formalities in dealing with different aspects of business transactions
- To acquaint the students with the ability to recognize and manage legal risks
- To guide the students with the understanding of legal provisions of various enactments applicable to business.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	comprehend the complexity of the laws relating to Business	K1
CO2	apply the fundamental legal principles behind contractual agreements.	K2
CO3	analyse the legal risks involved in business transactions.	K3
CO4	evaluate and confront the challenges relating to formation and operation of business	K4
CO5	defend their business actions in the context of various case laws	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Indian Contract Act 1872 1.1 Law of Contract-I 1.1.1. Classification of Contract 1.2 Requisites of a valid contract 1.2.1. Offer and Acceptance 1.2.2. Consideration 1.2.3. Capacity to Contract 1.2.4. Free Consent 1.2.5. Legality of Object 1.3 Regulations of E-Commerce Contract – An Overview	K1 – K3 K1 –K5 K1 –K5 K1 –K5 K1 –K5 K1 –K5 K1 –K3	15	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Law of Contract - II 2.1 Performance of Contract 2.2 Discharge and Remedies for a Breach of Contract 2.3 Special Contracts – Indemnity, Guarantee, Bailment and Pledge	K1 – K5 K1 – K5 K1 – K5	15	CO1-5
3	3.1 Sale of Goods Act 1930 3.1.1 Essentials for a Contract of Sale 3.1.2 Implied Conditions and Warranties 3.1.3 Transfer of Ownership and Delivery of Goods 3.1.4 Unpaid Seller- Rights 3.2 Law of Agency	K1 – K3 K1 – K5 K1 – K5 K1 – K3 K1 – K3	10	CO1-5
4	4.1 Limited Liability Partnership Act, 2008 4.1.1 Formation and Closure 4.1.2 LLP – Conversion of Partnership 4.2 Intellectual Property Rights Act 4.2.1 Meaning and Nature 4.2.2 Types of Intellectual Property	K1 – K4 K2 – K4 K1 – K4 K1 – K4	15	CO1-5
5	Competition Act 2002 5.1 Need and Objectives 5.2 Regulation of Anti-Competitive Agreements	K1 - K2 K2 - K3	10	CO1-5

BOOKS FOR STUDY

Kapoor N.D. *Elements of Mercantile Law*. New Delhi: Sultan Chand, 2020.

Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, New Delhi, S.Chand, 2015

BOOKS FOR REFERENCE

Tulsian, P.C. & Tulsian, B. *Business Law*. New Delhi: McGraw- Hill education., 2014.

Pandit M.S. and Shoba Pandit. *Business Law*. Mumbai: Himalaya, 2010.

Kuchhal , M.C. *Business Law*. New Delhi: Vikas Publications, 2013.

Singh, A. *Principles of Mercantile Law*. New Delhi: Eastern Book Company, 2012

WEB RESOURCES

www.lawctopus.com

www.indialawworld.Co

www.legalserviceindia.com

<http://www.ipindia.nic.in/>

JOURNALS

Journal of Business Law and Ethics

Journal of Intellectual Property Rights Law

National Journal of Environment Law

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/BL34												
	Course Title: Business Law												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	3	2	3	2	3	2	3
CO 2	3	3	3	2	2	1	3	2	3	2	3	2	3
CO 3	3	3	3	2	2	1	3	2	3	2	3	2	3
CO 4	3	3	3	2	2	1	3	2	3	2	3	2	3
CO 5	2	3	3	2	2	1	3	3	3	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

FINANCIAL SYSTEM

CODE: 23CM/MC/FS34

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students with a comprehensive knowledge on the role and functions of Financial System
- To educate students about the practical relevance and importance of the Indian Financial System
- To expose students to financial intermediaries
- To highlight the importance and functions of Credit Rating agencies
- To enable the students to understand the emerging trends of Indian Financial System

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	recognize the importance of Financial Institutions and Markets	K1, K2
CO2	examine the functions of banking and non-banking financial institutions	K3
CO3	analyze the recent trends in Financial Services	K4
CO4	evaluate the strengths and the relevance of Financial Instruments	K5
CO5	create a Personal Investment portfolio	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Financial System 1.1 Objectives and Significance of Financial System 1.2 Functions, Organisation and Role of Indian Financial System 1.3 Components of Indian Financial System – Financial Institutions, Financial Markets, Financial Instruments and Financial Services	K1 – K3 K3 – K4 K3 – K5	10	CO1-5
2	Financial Markets 2.1 Functions of Financial Market	K1 – K3	15	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	2.2 Indian Money Market, Global Money Market, Bond Market, Commodity Market, Derivative Market 2.3 Capital Market - NIM and Secondary Markets – Functions	K3 – K4 K3 – K5		
3	Financial Instruments 3.1 Significance of Financial Instruments 3.2 Types of Financial Instruments - Money 3.2.1 Market Instruments: Commercial Paper, Certificates of Deposit, Treasury Bills and Bonds, Repurchase Agreements, Euro Dollars, Banker's Acceptance 3.2.2 Capital Market Instruments: Corporate Stocks, Bonds, Gilt edged securities, Mutual Funds and Hybrid Instruments	K1 – K3 K2 – K5	15	CO1-5
4	Financial Services 4.1 Meaning, Importance, Types of Fund-based and Non-fund based Services 4.2 Mutual Funds - Importance, Functions and Types 4.3 Leasing, Factoring 4.4 Credit Rating - Importance and Functions 4.4.1 CRISIL, CARE, IICRA	K1 – K2 K1 – K5 K1 – K3 K1 – K5	15	CO1-5
5	Financial Institutions 5.1 Meaning and importance 5.2 Banking Institutions – Role and Functions 5.3 Non-Banking Institutions – Role, functions and types	K1 – K3 K1 – K4 K3 – K5	10	CO1-5

BOOKS FOR STUDY

Khan. *Indian Financial system*. Tata McGraw-Hill Education, 2017.

Gurusamy, S. *Financial Services and Markets*. Vijay Nichole Imprints, 2017.

BOOKS FOR REFERENCE

Machiraju H.R. *Indian financial system*. New Delhi: Vikas, 2017.

Mishkin, Stanley G. Eakins. *Financial Markets and Institutions*. Pearson Education India.

Murthy, D.K. Venugopal. *Indian Financial System*, 2017.

Ramesh Babu, G. *Indian financial system*. Concept, 2017.

WEB RESOURCES

www.bseindia.com

www.nseindia.com

JOURNALS

Asian journal of Research and Finance

Journal of Banking and Finance

Journal of Financial Intermediation

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/MC/FS34												
	Course Title: Financial System												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	1	3	2	3	1	2
CO 2	3	3	3	2	3	2	2	1	3	2	3	1	2
CO 3	3	3	3	2	3	2	2	1	3	2	3	1	2
CO 4	3	3	3	2	3	3	2	1	3	2	3	1	2
CO 5	2	3	3	1	3	3	2	1	3	3	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

MANAGEMENT ACCOUNTING

CODE: 23CM/MC/MA34

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable the students to analyse the financial data for effective managerial decision making
- To familiarise the students with the various budgeting techniques
- To expose the students to the practical applications of cost control concepts.
- To outline the techniques for effective planning and forecasting
- To facilitate the students to perform the analysis of variance, between actual cost and the predetermined standard cost.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	interpret the data for financial statement analysis	K1
CO2	apply the relevant tools and techniques for cost control and effective planning	K2
CO3	analyse the variance between actual cost and standard cost.	K3
CO4	estimate the projections based on budgetary analysis	K4
CO5	devise strategies for effective managerial decision making	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Management Accounting – Meaning, Definition, Nature and Scope	K1 – K2	10	CO1-5
	1.2 The difference and relationship between Management Accounting, Financial Accounting and Cost Accounting	K1 – K3		
	1.3 Tools and Techniques of Management Accounting 1.4 Advantages and Limitations of Management Accounting 1.5 Duties and functions of Management Accountant, Organization for Management Accounting	K1 – K4 K1 – K3 K1 – K4		
2	Financial Statement Analysis and Interpretation 2.1 Meaning and Process of Financial Statement Analysis 2.2 Objectives, Types and Procedure for Analysis and Interpretation of Financial Statements 2.3 Tools of Financial Statement Analysis - Comparative Statement Analysis, Common Size Statement Analysis and Trend Analysis 2.4 Ratio Analysis – Profitability Ratios, Turnover Ratios, Short Term and Long Term Solvency Ratios, Construction of the Balance Sheet using Ratios	K1 – K2 K1 – K2 K2 – K4 K2 – K5	15	CO1-5
3	Marginal Costing and its Application 3.1 Definition, Meaning and features of Marginal Costing 3.2 Marginal Costing and Absorption Costing 3.3 Cost-Volume-Profit Analysis: Break Even analysis, Margin of safety. 3.4 Application of Marginal Costing - Decision Making: Key factor, Make or Buy, Product Mix, Operate or Shut, Fixation of Selling Price	K1 – K2 K1 – K2 K1 – K5 K1 – K5	15	CO1-5
4	Budget and Budgetary Control 4.1 Concepts of Budgets, Budgeting and Budgetary Control 4.2 Objectives, Merits and Limitations of Budgetary Control 4.3 Classification of Budgets and its Preparation – Sales Budget, Purchase Budget, Cost of Production Budget, Cash Budget, Fixed and Flexible Budget and Master Budget	K1 – K2 K1 – K2 K1 – K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
5	Standard Costing and Variance Analysis 5.1 Meaning of Standard Cost and Standard Costing, Advantages, Limitations and Application 5.2 Variance Analysis – Material, Labour, Overhead and Sales Variances	K1 – K2 K1 – K5	12	CO1-5

BOOKS FOR STUDY

Maheshwari, S.N. *Principles of Management Accounting*. New Delhi: Sultan Chand, 2020
 Reddy, T.S. and A Murthy. *Management Accounting*. Chennai: Margham, 2015

BOOKS FOR REFERENCE:

Murthy. A and Gurusamy S, *Management Accounting*, Vijay Nichole, 2013
 Pillai RSN and Bagavathi, *Management Accounting*, S. Chand, 2022
 Khan, M.Y Jain P.K, *Management Accounting*, 3rd Edition TMH, 2013

WEB RESOURCES

www.icaai.org
 www.icma.com
 www.aicpa.org

JOURNALS

International Journal of research in Commerce and Management
 Research and Journal of Management Accounting – The ICWA of India
 Management Accounting Research Journal - Elsevier
 Indian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/MA34												
	Course Title: Management Accounting												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	1	3	3	2	1	2
CO 2	2	3	3	1	3	2	2	1	3	3	2	2	2
CO 3	3	3	3	1	3	2	2	1	3	3	2	1	2
CO 4	2	3	3	1	3	3	2	1	3	3	2	1	2
CO 5	2	3	3	1	3	3	3	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

BUSINESS ETHICS AND SOCIAL RESPONSIBILITY

CODE: 23CM/MC/ET33

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To provide students an understanding of business ethics and corporate social responsibility in the global and Indian context
- To apply the ethical concepts in decision-making
- To analyze the role and responsibilities of stakeholders in business
- Compare the CSR initiatives of different organisations
- To create Ethical business models using case studies on CSR issues and challenges

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	identify the various ethical issues related to business	K1
CO2	summarize the importance of ethics in local and global business context	K2
CO3	determine the driving forces of CSR	K3
CO4	appraise the various models and distinguish the different CSR initiatives	K4
CO5	evaluate the Legal, Political, Social and Cultural impact of CSR	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Ethics 1.1 Meaning, Scope and Objectives of Ethics 1.2 Business Ethics and Globalisation 1.3 Practicing Ethics in Business 1.4 Ethical Dilemma in Business	K1 – K2 K2 – K4 K3 – K5 K3 – K5	10	CO1-5
2	Ethics in Business 2.1 Ethical Issues in Finance – Issues related to Financial Services, Insider Trading and Takeovers 2.2 Ethical Issues in Marketing and Advertising 2.3 Whistle Blowing and Whistle-Blowers Protection	K2 – K5 K1 – K5 K1 – K4	12	CO1-5
3	Drivers of CSR-Ethical Theory 3.1 Drivers of CSR Disclosures 3.2 Driving forces of CSR, Consumers as Drivers of CSR, Government as Drivers of CSR 3.3 Relevant Case Studies for discussion	K1 – K5 K3 – K5 K1 – K4	10	CO1-5
4	Corporate Social Responsibility 4.1 CSR-Initiative towards Stakeholders - Employees, Consumers, Government and Suppliers 4.2 Corporate Philanthropy and Community Volunteering 4.3 CSR Model - Archie Carroll 4.4 CSR Initiatives in Different Corporate Sector – Relevant Case studies	K2 – K5 K3 – K5 K3 – K5 K3 – K5	10	CO1-5
5	Environmental aspects of CSR 5.1 Significance of CSR, Legal, Political, Social and Cultural Requirements 5.2 CSR and Corporate Sustainability 5.3 Role of Government in Managing Environmental Issues, Environmental Social Governance (ESG)	K1– K2 K1 – K4 K1 – K5	10	CO1-5

BOOKS FOR STUDY

Andrew Crane Dirk Matten. *Business Ethics*. New Delhi: Oxford University Press.2010
Joan R. Boatright. *Ethics and the Conduct of Business*. Pearson. 2018

BOOKS FOR REFERENCE

Bhanu Murthy, K. V. and Usha Krishna, *Politics Ethics and Social Responsibilities of Business*. New Delhi: Pearson Education.2015
Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University Press. 2010
Geeta Rani, D & R K Mishra. *Corporate Governance-Theory and Practice*. New Delhi: Excel.
Kotler, Philip and Nancy Lee. *Corporate Social Responsibility – Doing the Most Good for Your Company and Your Cause*. Wiley – India, 2017.
Fernanado,A.C. ,*Corporate Governance-Principles, Policies and Practice*, Pearson 2009

WEB RESOURCES

www.ibscdc.org
www.exed.hbs.edu
www.hbr.org

JOURNALS

International Journal of Management Reviews
International Journal on Corporate Strategy and Social Responsibility

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/ET33												
	Course Title: Business Ethics and Social Responsibility												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	3	3	3	3	3	3	3
CO 2	3	3	3	2	2	2	3	3	3	3	3	3	3
CO 3	3	3	3	2	2	2	3	3	3	3	3	3	3
CO 4	2	3	3	2	2	2	3	3	3	3	3	3	3
CO 5	2	3	3	2	2	2	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

COMPUTER APPLICATIONS IN BUSINESS

CODE: 23CM/AC/CB35

CREDITS: 5

L T P : 2 0 4

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE:

- To impart knowledge to the students on computer skills relating to business environment
- To expose students to the tools for financial analysis and reporting techniques using Tally
- To familiarise the students with data analysis techniques using Excel.
- To provide students hands on experience on business forecasting techniques
- To enable students to use appropriate tools for effective decision-making

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	identify tools for financial data analysis and reporting techniques	K1
CO2	estimate the financial position of a company using forecasting techniques	K2
CO3	apply the advanced features in Tally and Excel in financial analysis	K3
CO4	analyse budgets and payrolls for financial decision making	K4
CO5	evaluate business projects using data analysis, time value and capital budgeting techniques	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Accounting Package – Tally		20	CO1-5
	1.1 Introduction to Tally - Creation, Alteration and Deletion of a Company	K1 – K5		
	1.2 Creation, Alteration and Deletion of Group and Ledger	K1 – K5		
	1.3 Accounting Vouchers – Types, Voucher Entry	K3 – K5		
	1.4 Preparation of Financial Statement – Day Book, Trial Balance, Profit and Loss and Balance Sheet	K3 – K5		
	1.5 Ratio Analysis	K1 – K3		

2	MS Excel for Financial Statement and Business Forecasting 2.1 Techniques of Financial Statement Analysis 2.1.1 Comparative Statement 2.1.2 Common Size Statement 2.1.3 Trend Percentage	K1 –K5	12	CO1-5
3	3.1 Preparation of Budget – Sales Budget, Purchases budget, Cost of Production, Flexible Budget and Cash Budget 3.2 Payroll Analysis – Computation of salary and wages with allowances and deductions	K1 –K5 K1 –K5	16	CO1-5
4	Data analysis using Excel 4.1. Sorting of data, filtering data, pivot table 4.1.1. ANOVA, Correlation. Regression, Moving average, t-test, f-test, Chi Square and descriptive statistics using data analytics.	K1 –K5 K1 –K5	15	CO1-5
5	Application of Financial and Statistical function 5.1 Business Evaluation Techniques using financial functions 5.1.1. Time Value of Money - Future Value and Present Value 5.2 Evaluation Techniques 5.2.1 Pay Back Period 5.2.2 Net Present Value 5.2.3 Internal Rate of Return 5.3. Methods of Depreciation 4.3.1 Straight line method 4.3.2 Double declining balance method 4.3.3 Sum of the years digits method 5.4 Statistical Functions – Mean, Median, Mode, Standard deviation, Trend, ANOVA, Correlation. Regression, Moving average, t- test, f-test, Chi Square	K1 –K5 K1 –K5 K1 –K5 K1 –K5	15	CO1-5

BOOKS FOR STUDY

Nadhani, A.K. *Implementing Tally. ERP*. BPB Publication, 2017

Rajaraman, V. *Introduction to Information Technology*, 3rd edition. PHI, 2018

BOOKS FOR REFERENCE

Rizwan P. Ahmed, *Computer Application in Business with Tally ERP 9*, Margham Publication

Sadagopalan, S. *Management Information System*. PHI

Eliason, A.L., *On – line Business Computer Application Science Research Associates* Chicago.

Curtis D. Frye, *Step by Step Microsoft Excel 2010*, PHI

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	1 X 5 = 5	1 K1 question	1 K1 question
B	K2 (5)	1 X 5 = 5	1 K2 question	1 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	5	8

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	2 X 5 = 10	2 K1 question	2 K1 question
B	K2 (10)	2 X 5 = 10	2 K2 question	2 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	10	14

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/AC/CB35												
	Course Title: Computer Applications in Business												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	3	1	3	3	1	1	3	2	1	1	3
CO 2	2	3	3	1	3	3	1	1	3	2	1	1	2
CO 3	1	3	3	1	3	3	1	1	3	2	1	2	3
CO 4	2	3	3	1	3	3	1	1	3	2	1	2	2
CO 5	3	3	3	1	3	3	1	1	3	2	1	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

FINANCIAL MANAGEMENT

CODE: 23CM/MC/FM44

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize students with the principles and practices of financial management
- To provide students a sound conceptual frame work for financial decision-making
- To assist the students to apply the concepts of time value of money
- To determine the cost of various sources of capital
- To enable the students to select and apply the techniques in managing working capital

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	relate the financial environment within which the organizations operate.	K1
CO2	apply the relevant financial concepts and techniques in financial decision making	K2
CO3	analyse the impact of time value of money on investment opportunities	K3
CO4	select the suitable projects using capital budgeting techniques	K4
CO5	determine the cost of various sources of capital and propose the optimal capital structure	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Financial Management 1.1 Core Concepts 1.1.1. Investment Decisions 1.1.2. Finance Decisions 1.1.3. Dividend Decisions 1.1.4. Liquidity Decisions 1.2 Objectives of the Firm 1.2.1. Profit Maximisation 1.2.2. Wealth Maximisation 1.3 Objectives of Long term and Short term Capital Management 1.4 Time Value of Money-Concepts and Applications 1.4.1 Computation of Time value of Money 1.4.1.1 Compounding Techniques Present Value Techniques	K1-K3 K1-K3 K1-K3 K1-K5	10	1-5
2	Capital Structure 2.1 Meaning and Significance of Capital Structure 2.2 EPS-EBIT Analysis, Indifference Point 2.3 Leverages - Meaning and Importance 2.3.1 Types of Leverages	K1-K2 K1-K5 K1-K4	10	1-5
3	Cost of Capital 3.1 Meaning and Significance 3.2 Cost of Equity and Retained Earnings 3.3 Cost of Debt 3.4 Cost of Preference 3.5 Computation of Overall Cost of Capital - Book Value and Market Value	K1-K2 K1-K4 K1-K4 K1-K4 K1-K5	15	1-5
4	Capital Budgeting 4.1 Nature of Capital Budgeting 4.2 Evaluating Techniques – Pay Back Period, Average Rate of Return, Net Present Value, Internal Rate of Return and Profitability Index	K1-K2 K1-K5	15	1-5
5	Working Capital Management and Dividend Decisions 5.1 Need for Working Capital Management 5.2 Determinants of Working Capital Management 5.3 Computation and Management of Working Capital 5.4 Dividend Policies-Factors determining Dividend payments	K1-K2 K1-K4 K3-K5 K1-K3	15	1-5

BOOKS FOR STUDY

Khan, M.Y. and P.K. Jain. *Basic Financial Management*. New Delhi: Tata Mc Graw Hil, 2017.

Dr. A. Murthy *Financial Management*, Margham Publications, 2013

BOOKS FOR REFERENCE

Chandra,. *Fundamentals of Financial Management*. New Delhi: Tata McGraw Hill, 2014.

Van Horne, James C. *Financial Management and Policy*. New Delhi: Prentice Hall of India, 12th edition.2011.

Maheshwari, S. N. *Financial Management*. New Delhi: Vikas, 6th edition, 2013

Pandey, I. M. *Financial Management*. New Delhi: Vikas, 2016.

Ravi M. Kishore. *Taxmann's Financial Management*. New Delhi: K. L. Taxmann, 2016.

WEB RESOURCES

www.mdpi.com

www.indianjournaloffinance.co.in

www.financeindia.

JOURNALS

Journal on Risk and Financial Management

Indian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/FM44												
	Course Title: Financial Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	2	3	1	3	2	2	3	3
CO 2	2	3	3	1	2	3	2	1	3	2	2	2	3
CO 3	3	3	3	1	2	2	1	1	3	2	2	2	2
CO 4	2	3	3	1	2	2	2	1	3	3	2	2	2
CO 5	2	3	3	1	2	2	2	1	3	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

BANKING THEORY AND PRACTICE

CODE: 23CM/MC/BK43

CREDITS :3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To gain knowledge on the structural framework of the banking sector
- To expose the students to the technological changes in banking services
- To provide a comprehensive knowledge on the procedural formalities of banking services
- To acquaint the students with the various banking products
- To familiarise the students with the neo aspects of banking services

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Highlight the importance of Banking services to the society	K1
CO2	Identify the Banking operations offered to a customer	K2
CO3	Examine the nuances of the banking industry	K3
CO4	Categorise the different types of banking services	K4
CO5	Adapt to the modern technological trends in the Banking sector	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Banking 1.1 Meaning, Definition and functions of a Commercial bank 1.2 Classification of banks – Co-operative banks, Rural Banks, Investment banks, Payment banks and Small finance banks 1.3 Introduction to RBI – functions of RBI and Quantitative Credit Control methods – CRR, Bank Rate, SLR, Repo & reverse repo rate, and open market operations 1.4 Role of banks in economic development	K1 – K5 K1 – K5 K1 – K5 K1 – K5	12	CO1-CO5
2	Banking Operations 21 Banker and Customer relationship 22 Procedure and Practice in Opening, Operating and Closing of Bank Accounts 23 Deposits – Types of Deposits 24 Loans and Advances – Principles of sound lending, style of credit and types of loans 25 Meaning, Features of Cheque – Types of Crossing, Endorsement – Meaning and types	K1-K3 K1-K3 K1-K3 K3-K5	12	CO1-CO5
3	Banking Services 3.1 Bancassurance – Meaning, Importance, Functions and Role of Insurance Services 3.1 Role of Postal Services in the Banking Sector 3.2 Foreign Exchange Services – Currency exchange and transfer	K1 – K3 K3 – K5 K3 – K5 K1 – K2	12	CO1-CO5
4	Modern Banking Operations 4.1 E-Banking – Meaning, need and advantages 4.2 Mobile banking, Net banking, Tele banking, Door - step banking – Meaning and significance 4.3 Types of E-banking – Smart card, Debit card, Credit card, ATM, ECS, EFT, NEFT, RTGS, IMPS, LRS, UPI, e-wallet, e-cheques, Digital Cash. 4.4 Opening and operating a Demat account	K1-K3 K3-K5 K4-K5 K1-K2	10	CO1-CO5
5	Recent trends in Banking - An Overview 5.1 Block Chain Technology 5.2 Cloud Banking	K1-K3 K1-K3	6	CO1-CO3

BOOKS FOR STUDY

KPM Sundharam and PN Varshney, *Banking Theory, Law and practice*, Sultan Chand & Sons, 2019

Gordon. E, K. Natarajan; *Banking Theory, Law and practice*, Himalaya Publishing House, 2021

BOOKS FOR REFERENCE

Varshney, P.N., *Banking Law and Practice*, Sultan Chand and Sons, New Delhi, 2016
Dr. Gurusamy: *Banking Theory: Law and practice*, McGraw Hill Education India, 2nd edition
Saxena, G.S; *Legal Aspects of Banking Operations*, Sultan Chand and Sons
Sukhvinder Mishra; *Banking Law and Practice*, S.Chand

WEB RESOURCES

http://www.universityofcalicut.info/SDE/Banking_on19May2016.pdf
<http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?ID=243>
<https://exampariksha.com/bancassurance-banking-study-material-notes/>

JOURNALS

International Journal of Finance & Banking Studies
Global Journal of Finance and Banking Issues
Journal of Insurance and Risk Management
International Journal of Banking, Risk and Insurance.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion
Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/BK43												
	Course Title: Banking Theory and Practice												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	2	2	3	3	3	2	3
CO 2	3	2	2	1	2	3	3	2	3	3	3	3	3
CO 3	3	2	2	1	2	3	3	2	3	3	3	2	3
CO 4	3	2	2	1	2	2	2	2	3	2	3	3	3
CO 5	3	2	2	1	2	3	2	2	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

COMPANY LAW

CODE: 23CM/MC/CL 44

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with the provisions of Companies Act
- To apply the practical knowledge of establishing and formation of a Company
- To analyse the provisions of the Company relating to raising of finance
- To familiarise the students with the various documents involved in formation and management of a company
- To expose the students to the statutory provisions relating to the management of a company

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	outline the legal provisions relevant to the formation and management of a company	K1
CO2	identify the relevant documents necessary for the incorporation of a company	K2
CO3	comprehend the legal and procedural aspects relating to raising and distribution of funds	K3
CO4	differentiate the statutory provisions involving the roles and responsibilities of Key Managerial Personnel of a company	K4
CO5	assessing the types and requisites of Meetings and Resolutions of a company	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Characteristics of a Company, Lifting of Corporate Veil 1.2 Types of Company – Private, Public and One-man Company 1.3 Important Definitions- Member, Promoter, Financial Year, Free Reserves, Associate Company	K1-K3 K1-K3 K1-K3	10	1-3
2	Formation of a Company 2.1 Legal Requirements for Formation of a Company – Commencement of Business 2.2 Process of Incorporation of Company 2.3 Memorandum of Association and its Alteration 2.4 Articles of Association and its Alteration - – Entrenchment Provision 2.5 Prospectus	K1-K5 K1-K5 K1-K5 K1-K3 K1-K4	15	1-5
3	Raising of Finance 3.1 Concept of Capital –Kinds of Share Capital and Nature of Shares 3.2 Application, Allotment, Transfer and Transmission of Shares 3.3 Issue of Sweat Equity Capital, ESOP, ESPP, RSU and Bonus Shares 3.4 Debenture –Nature and Classes of Debenture 3.5 Deposits- Meaning, Exempted Deposit, Return of Deposit and Allied Regulatory Deposit	K1-K3 K1-K5 K1-K5 K1-K3 K1-K3	12	1-5
4	Management 4.1 Directors–Appointment and Removal, Roles and Responsibility, Classification of Directors - Women Director, Independent Director, Additional Director - Number of Directorship and DIN (Director Identity Number) 4.2 Key Managerial Personnel – Managing Director, Manager, Secretary- Appointment, Removal, Power and Duties	K1-K5 K3-K5	15	1-5
5	Meetings and Resolutions 5.1 Meetings – Requisites and Types 5.1.1 Board and Committee Meetings 5.1.2 Shareholder’s Meeting - Statutory Meeting, AGM, EGM, Creditors Meeting 5.2 Resolutions – Meaning and Types 5.3 Registers and Returns	K1-K5 K1-K5 K1-K2 K1-K4 K1 - K3	13	1-5

BOOKS FOR STUDY

Avatar Singh , A., *Company Law*, Eastern Book Company, 2018

Kapoor, N.D. *Company Law*. New Delhi: Sultan Chand, 30th Edition, 2016

BOOKS FOR REFERENCE

Majumdar, A. K., Kapoor, G.K. *Company Law and Practice*, Taxman Publication, 2014

Chandrate, K.R. *Company Secretarial Practice Manual*: Lexis Nexis, 2016

Shah, S.M. *Lecture of Company Law*. Mumbai: Tripathi M.N, 2006.

Sherlekar, S.A. *Company Secretarial Practice*. New Delhi: Kitab Mahal, 2006.

Ravi, B, *Company Law made Simple*, B.Ravi and Associates, Chennai

JOURNALS

Company and Security Law Journal

Company Law Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/CL44												
	Course Title: Company Law												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	1	1	3	2	3	2	2
CO 2	3	2	2	2	3	3	1	1	3	2	3	2	2
CO 3	2	2	2	2	3	2	2	1	2	2	3	2	3
CO 4	2	2	2	2	3	3	2	1	2	3	3	2	3
CO 5	2	2	2	2	1	2	1	1	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

HUMAN RESOURCE MANAGEMENT

CODE: 23CM/MC/HR43

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand the roles and responsibilities of HR Managers and the challenges faced
- To educate the students on the managerial, operative and maintenance aspects of the human resources in an organization
- To analyze the concepts and factors affecting Human Resource Planning, Recruitment and Selection
- To measure the effectiveness of Training methods of employees and managers and the techniques involved
- To examine the strengths and weaknesses of different performance management system

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

Cos	DESCRIPTION	CL
CO1	describe the objectives and significance of HR Management	K1
CO2	explain the various processes involved in Talent Acquisition	K2
CO3	analyse the managerial, operative and maintenance aspects of the Human Resources in an organization	K3
CO4	evaluate the methods and effectiveness of Training and Development Programmes	K4
CO5	critically appraise the factors determining employee performance	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Scope and Objectives of Human Resource Management 1.2 Significance and Functions of Human Resource Management 1.3 Emerging Challenges of Human Resource Management- Workforce Diversity, Downsizing, Work Life Balance 1.4 Recent Trends in Human Resource Management	K1-K3 K1-K3 K2- K3 K1-K3	10	CO1-5
2	Acquisition of Human Resources 2.1 Objectives, Characteristics and Process of HR Planning 2.2 Job Analysis - Job Description, Job Specification 2.3 Recruitment – Sources of Recruitment 2.4 Selection Procedure, Testing, Placement and Induction	K1-K3 K1-K3 K4-K5 K4-K5	12	CO1-5
3	Training and Development 3.1 Concept and Importance, Identifying Training and Development Needs 3.2 Training and Development Methods – On-the-job and Off-the-job 3.3 Evaluating Training Effectiveness	K1-K3 K4-K5 K3-K5	10	CO1-5
4	Performance Appraisal 4.1 Nature and Importance of Performance Appraisal 4.2 Process and Methods of Performance Appraisal 4.3 Performance Management , Performance Counselling	K1-K3 K1-K5 K1-K3	10	CO1-5
5	Compensation and Maintenance 5.1 Compensation – Factors, Types – Monetary and Non-Monetary 5.1.1 Wage and Salary Compensation 5.1.2 Incentives and Benefits 5.2 Employees Welfare– Health, Safety and Social Security 5.3 Grievance Handling and Redressal – Vigil Mechanism and Prevention of Sexual Harassment	K1-K3 K1-K3 K1-K3 K3-K5	10	CO1-5

BOOKS FOR STUDY

Aswathappa K. *Human Resource Management*, Text and Cases 8th Edition New Delhi: Tata Mc Graw Hill 2017.

Gupta, C.B. *Human Resource management*. Text and Cases 19th Edition New Delhi: Sultan Chand, 2017.

BOOKS FOR REFERENCE

Khanka S.S, *Human Resource management text and cases* ' S. Chand, 2nd edition 2019

Flippo V. Edwin. *Personnel Management*. New Delhi: Mc Graw Hill, 2019.

Mamoria, C.B. *Personnel Management*. Mumbai: Himalaya, 2017.

Prasad, L.M. *Human Resource management*. New Delhi: Sultan Chand, 2017.

John Bratton and Jeffery Gold *Human Resource management Theory and Practice* Macmillan

WEB RESOURCES

www.hrcouncil.ca/hr-toolkit/planning-strategic.cfm

www.hrware.com/recruitment/88-2/

www.educationobserver.com/forum/showthread.php?tid=12165
managementhelp.org/training/

JOURNALS

International Journal of Human Resource Management

The Human Resource Management Review

Human Resource Management International Digest

Human Resource Management Journal.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/HR43												
	Course Title: Human Resource Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	3	3	3	3	2	3	2
CO 2	2	3	3	3	3	3	3	3	3	3	2	3	2
CO 3	3	3	3	3	3	2	3	3	3	3	2	3	2
CO 4	2	3	3	3	3	2	3	3	2	3	2	3	2
CO 5	2	3	3	3	3	2	3	3	2	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Com (General) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMMERCE

CODE: 23MT/AC/MT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts pertaining to the discipline of commerce
- To employ different techniques to solve problems pertaining to matrices, equations and LPP
- To appreciate the concept of numerical differentiation and integration as an alternate tool to solve problems on differentiation and integration
- To promote problem solving skills and quantitative analysis
- To model and solve real time problem using linear programming method

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall and define the basic mathematical concepts on matrices, equations, differentiation, integration and linear programming problem	K1
CO2	understand and compare the concepts relating to matrices, polynomials, numerical methods and linear programming problem	K2
CO3	utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CO4	analyse and examine the problem relating to the applications of matrices, differentiation, integration and optimization	K4
CO5	evaluate solutions to the problems related to matrices, equations, differentiation, integration and linear programming problem	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Matrices 1.1 Types of Matrices 1.2 Characteristic Equation of a Matrix 1.3 Cayley - Hamilton Theorem (without proof) 1.4 Eigen Values and Eigen Vectors 1.5 Diagonalization of 3×3 Matrices with Distinct Eigen Values	K1- K5	13	CO1-5
2	Theory of Equations 2.1 Formation and Solution of Equation with Imaginary and Irrational Roots 2.2 Relation between Roots and Coefficients 2.3 Solution of Equations under given Conditions 2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients 2.5 Reciprocal Equations	K1-K5	14	CO1-5
3	Numerical Methods Algebraic and Transcendental Equations 3.1 The Bisection Method 3.2 Newton - Raphson Method Simultaneous Equations 3.3 Gaussian Elimination Method 3.4 Gauss Jordan Elimination Method 3.5 Gauss Jacobi Iteration Method 3.6 Gauss Seidal Iteration Method	K1-K5	13	CO1-5
4	Numerical Differentiation and Numerical Integration 4.1 Derivatives using Newton's forward difference Formula 4.2 Derivatives using Newton's backward difference Formula 4.3 Trapezoidal Rule 4.4 Simpson's One Third Rule 4.5 Simpson's Three Right Rule	K1-K5	12	CO1-5
5	Linear Programming Problem 5.1 General L.P.P. 5.2 Canonical and Standard Forms of L.P.P. 5.3 The Simplex Algorithm 5.4 The Big-M method	K1-K5	13	CO1-5

BOOKS FOR STUDY

S, Arumugam, et al. *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017.

Chapter 3 Sections 3.3, 3.5

Chapter 4 Sections 4.3, 4.4, 4.7, 4.8

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to concepts only)

V, Sundaresan, et al. *Resource Management Techniques*. Chennai: A.R. Publications, 2014.

Chapter 3 Sections 3.1.1 – 3.1.4, 3.2.1

S G, Venkatachalapathy. *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016.

Chapters 2 – 4

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

BOOKS FOR REFERENCE

A, Abdul Rasheed. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008.

S, Kalavathy. *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

S, Sankarappan, et al. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

WEB RESOURCES

<https://youtu.be/w8i89ftfZPI?si=HlaO4tYZ9ge9zPxx>

https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SMT1302.pdf

<https://www.math.ucla.edu/~tom/LP.pdf>

<http://www.math.iitb.ac.in/~baskar/book.pdf>

<http://ncert.nic.in/ncerts/l/lemh206.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components
:
Seminars /
Quiz /

Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MT45												
	Course Title: MATHEMATICS FOR COMMERCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	2	2	1	1
CO 2	3	3	3	3	2	2	1	1	3	2	2	1	1
CO 3	3	3	3	3	3	3	1	1	3	2	2	1	1
CO 4	3	3	3	3	3	3	1	1	3	2	2	1	1
CO 5	3	3	3	3	3	3	1	1	3	2	2	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

BUSINESS RESEARCH

CODE: 23CM/MC/BR54

CREDITS:4

L T P: 5 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the fundamentals of business research.
- To identify the research gap through proper analysis of past studies.
- To familiarize research design and sampling techniques.
- To use appropriate data collection methods and apply statistical tools for justifying the study.
- To prepare and present the research report.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	comprehend and use the fundamentals of Research Methodology in their research and project work.	K1
CO2	identifying the research problem and write reviews based on the study.	K2
CO3	determine appropriate research design and sampling techniques.	K3
CO4	gather data, process the data, and analyze it appropriately.	K4
CO5	develop and test hypothesis and create a Business Research Report	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

Unit	Content	CL	Hours	CO
1	Introduction to Research 1.1 Meaning, Objectives and Significance of research 1.2 Types of research, Approaches and Scientific Research 1.3 Research process and Criteria for good research 1.4 Challenges and Problems in Research	K1 - K2 K1 – K5 K1 - K4 K1 - K2	15	CO1 – CO 5
2	Defining Research Problems and Evaluating the Reviews 2.1 Selecting and defining the problem 2.2 Techniques involved in defining a problem 2.3 Significance of Review of Literature 2.4 Review of Literature - Sources	K1 - K3 K1 – K4 K1 – K4 K1 - K3	10	CO1 – CO 5
3	Research Design and Sampling Techniques 3.1 Meaning, Need, Features and Importance of research design 3.2 Research Design - Types 3.3 Sampling Designs – Steps, Criteria, Characteristics and types 3.4 Scaling – Meaning and Importance 3.5 Scaling Techniques – Likert’s Scale	K1 – K2 K1 – K2 K1 – K2 K1 – K2	15	CO1 – CO 5
4	Data Collection and Analysis of Data 4.1 Data Collection – Primary data and Secondary data 4.2 Processing Operations in Analyzing data - Coding of data 4.3 Tools and techniques in Data Analysis using Excel	K1 – K2 K1 – K2 K1 – K2	15	CO1 – CO 5
5	Testing of Hypothesis, Interpretation and Report writing 5.1 Basic concepts and Procedure for testing Hypothesis 5.2 Interpretation – Meaning and Techniques 5.3 Report writing – Significance, Steps, Layout and Types 5.5 Mechanics of writing a report 5.6 Reference Styles – MLA, APA	K1-K6	10	CO1 – CO 5

BOOKS FOR STUDY

C.R. Kothari , *Research Methodology – Methods and Techniques* , New Age

International Publishers

T N Srivastava and Shailaja Rego, *Business Research Methodology*, Tata Mcgraw Hill

Education Private Limited, New Delhi

BOOKS FOR REFERENCE

Deepak Chawla and Neena Sondhi , *Research Methodology* , Vikas Publishing House

O.R. Krishnaswami, *Methodology of Research in Social Sciences*, Himalaya

Publishing House

Mishra Prahlad, *Business Research Methods*, Oxford Higher Education, 2015

WEB RESOURCES**JOURNALS**

International journal of social research methodology. (Taylor and Francis) Qualitative research journal (emerald journal)

Journal of Business Research (Elsevier)

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components: Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination: Total Marks: 100 Duration: 3 hours.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2 (10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/BR54												
	Course Title: Business Research												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	1	3	3	1	2	2
CO 2	2	3	3	3	3	2	2	1	3	3	1	2	2
CO 3	2	3	3	3	3	2	2	1	3	3	1	2	2
CO 4	2	3	3	3	3	2	2	1	3	3	1	2	2
CO 5	2	3	3	3	3	2	2	1	3	3	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

INCOME TAX LAW AND PRACTICE

CODE: 23CM/MC/IT 54

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint the students with the Provisions of the Income Tax Act
- To understand the significance of residential status of an individual in Income Tax Assessment
- To enable the students to compute the income under different heads of income
- To educate the students on the computation of taxable income and tax liability
- To familiarise the students with various deductions available under Sec. 80 for tax planning of an individual

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	remember the Provisions of the Income Tax Act relevant to an Individual Assessee	K1
CO2	elaborate the scope of total income and categorise them under each head of income	K2
CO3	compute the income under each Head for an individual	K3
CO4	analyse the various options available for deductions	K4
CO5	assess the total taxable income and tax liability	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Taxation 1.1 Importance and Relevance of Taxation 1.2 An overview of the Income Tax Act 1961 1.3 Types of Tax - Direct and Indirect Taxation 1.4 Important Definitions under The Income Tax Act 1961- Assessee, Persons, Assessment Year - Previous Year, Total Income 1.5 Residential Status and Scope of Total Income	K1, K2 K1, K2 K1, K2 K1 – K3 K1 – K5	12	CO1-5

2	Computation of Salary Income and Income from House property 2.1 Computation of Income under the Head Salary 2.1.1 Allowances - Perquisites - Profit in Lieu of Salary, Treatment of Provident Fund 2.1.2 Deductions, Computation of Salary Income 2.2 Computation of Income under the Head House Property 2.2.1 Basis of Charge 2.2.2 Computation of Self-occupied and Let-out House 2.2.3 Deductions	K1 – K5 K1 – K5 K1 – K5 K1 – K5 K1 – K5 K1 – K5	15	CO1-5
3	Computation of Profits and Gains of Business or Profession 3.1 Income chargeable under the Head Profits and Gains of Business and Profession 3.2 Income and Expenditure - allowed and disallowed 3.3 Depreciation	K1 – K5 K1 – K5 K1 – K5	12	CO1-5
4	Computation of Capital Gains and Income from other sources 4.1 Meaning and Types of Capital Gains 4.1.1 Computation of Short Term and Long Term Capital Gains 4.1.2 Exempted Capital Gains 4.2 Income from Other Sources 4.2.1 Basis of Charge, Casual and Other Income 4.2.2 Computation of Taxable Income from Other Sources	K1 – K5 K1 – K5	13	CO1-5
5	Computation of Total Income and Tax Liability 5.1 Set off and carry forward of losses 5.2 Computation of Gross total income 5.3 Deductions allowed under Section 80 for an Individual 5.4 Computation of Taxable Income and Tax Liability. 5.4.1 Old and New Tax Regime – An Overview	K1 – K5 K1 – K5 K1 – K5 K3 – K5 K1-K3	13	CO1-5

BOOKS FOR STUDY

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi, Kalyani Publishers
Swatantra Sethi, *Self-Preparation and Filing of Income Tax Returns by Individuals* Kindle
Edition, 2018

BOOKS FOR REFERENCE

Lal B.B., *Income Tax Law and Practice*, , , Konark Publishers Limited, New Delhi
Manoharan T. N. *Income Tax Law*, Mumbai, Snow White Publications
Mehrothra, H.C., *Income Tax Law and Practicum*, , Sahithya Bhavan Publications, Agra
Vinod K., Singhanian, *Taxman's Students Guide to Income Tax*, Taxman's Publications Pvt.
Ltd., New Delhi
Vinod K., Singhanian, *Indirect tax*, 2014-15 Taxman's Publications Pvt. Ltd., New Delhi

NOTE: Latest edition of the readings may be used

WEB RESOURCES

www.ntanet.org/tax
www.aicpa.org
www.icaew.com

JOURNALS

Journal of taxation
National tax journal

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/IT54												
	Course Title: Income Tax Law and Practice												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	3	1	2	1	3	2	3	1	2
CO 2	3	1	1	1	3	1	2	1	3	2	3	1	2
CO 3	3	1	1	1	3	1	2	1	3	2	3	1	2
CO 4	3	1	1	1	3	1	2	1	3	2	3	1	2
CO 5	3	1	1	1	3	1	2	1	3	2	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

E - ENTERPRISE MANAGEMENT

CODE: 23CM/MC/EM 53

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide knowledge of the technological changes in the business world
- To understand the practices and technology to start a business
- To analyse the E-business environment
- To generate and evaluate ideas for new business ventures
- To develop an appropriate E-Business model while meeting web presence goals

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	highlight and identify the technological changes in e-business	K1
CO2	determine the practices and examine the web-based technology used in e-business	K2
CO3	appraise and analyse the digital business environment	K3
CO4	discover new e-business ideas and validate new e-business ventures	K4
CO5	simulate an e-business model to meet the web presence goals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to E-Business 1.1 Meaning, Significance, Advantages and Challenges in E-Commerce 1.2 E-Commerce Models – B2B, B2C, C2B and C2C 1.3 E-Commerce in India (Internet, World Wide Web, Internet Architectures, Internet Applications, Web Based Tools for Electronic Commerce)	K1 – K4 K2 – K5 K1 – K3	10	CO1-5

2	E-Business Infrastructure 2.1 Business Applications on Internet, Intranet and Extranet 2.2 Electronic Data Interchange - Components and Communication process 2.3 E-HRM – Concept, Importance and Challenges in E-HRM 2.4 Impact of E-HRM practices in Organizational Performance	K1 – K4 K2 – K3 K1 – K4 K4 – K5	10	CO1-5
3	E-Business Payment and Security 3.1 Electronic Payment System – Meaning, Characteristics and Advantages 3.2 Types of Electronic Payment Systems 3.3 Issues in EPS 3.4 Internet Security Threats to e-Business – an Overview 3.4.1 Cryptography, Security, Encryption, Public Key and Private Key Cryptography, Digital Signatures, Digital Certificates 3.4.2 Security Protocols, Public Networks- HTTPS, SSL, Firewall Public Key Infrastructure (PKI) for Security, Prominent Cryptographic Applications	K1 – K2 K3 – K5 K2 – K4 K4 – K5 K1 – K3 K1 – K3	15	CO1-5
4	E-Marketing 4.1 Consumer Oriented e-Business – e-Tailing and Models including G2B 4.2 Marketing on Web – Advertising, Marketing, Online Services and Web Auctions, Virtual Communities and Web Portals 4.3 E-Governance - EDI on the Internet, Delivery Management System 4.4 Social Media Marketing – Tools, Advantages and Disadvantages	K2 – K4 K3 – K5 K1 – K2 K3 – K5	10	CO1-5
5	Emerging trends and Issues in e-Business 5.1 Legal, Ethical and Privacy Issues – Need for Protection and Methodology 5.2 Online Consumer Protection-Rights 5.3 Information Technology Act – Emerging Trends 5.4 Doing Business in Metaverse	K3 – K4 K1 – K2 K1 – K5 K1 – K3	7	CO1-5

BOOKS FOR STUDY

Harvey M.Deitel, Paul J.Deitel, Kate Steinbuhler, *E-business and e-commerce for managers*, Pearson, 2011.

Efraim Turban, Jae K. Lee, David King, Ting Peng Liang, Deborah Turban, *Electronic Commerce –A managerial perspective*, Pearson Education Asia, 2010

BOOKS FOR REFERENCE

Parag Kulkarni, Sunita Jahirabadkao, Pradeep Chande, *e business*, Oxford University Press, 2012

Gary P. Schneider, Electronic commerce, Thomson course technology, Fourth annual edition, 2007

Bharat Bhasker, Electronic Commerce – Frame work technologies and Applications, 3rd Edition. Tata McGrawHill Publications, 2009

Kamlesh K. Bajaj and Debjani Nag, Ecommerce- the cutting edge of Business, Tata McGrawHill Publications, 7th reprint, 2009.

WEB RESOURCES

<https://www.ici.net.au/blog/e-business-management-what-you-need-to-know>

<https://iveybusinessjournal.com/publication/the-strategic-management-process-in-ebusiness/>

<https://www.dailypioneer.com/2018/avenues/managing-e-commerce>

JOURNALS

International Journal of Internet and Enterprise management

International Journal of Enterprise Network management

International Journal of Enterprise Information System

Journal of Enterprise Information Management

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/EM53												
	Course Title: E-Enterprise Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	3	2	1	3	3	3	2	3
CO 2	3	3	3	2	2	3	2	1	2	1	2	2	1
CO 3	3	3	3	2	2	2	2	1	2	2	2	2	2
CO 4	3	3	2	2	3	3	2	1	2	2	3	2	2
CO 5	3	2	2	2	2	3	2	1	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

BUSINESS COMMUNICATION

CODE: 23CM/MC/BC53

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To help students to understand the importance of communication in business
- To apply the skills of effective letter writing
- To analyse the importance of AIDAS in business communication
- To evaluate the role of technology in making communication effective
- To prepare a personal resume and to draft job application letters and other relevant business letters

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	highlight the importance of communication in business	K1, K2
CO2	apply the AIDAS principle for effective business communication	K3
CO3	illustrate the skills of written communication	K4
CO4	comment and report on different business scenario using technological aids	K5
CO5	draft a job application and write a resume	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Nature, Process and Importance of Communication 1.2 Types of Communication 1.3 Barriers to Communication	K1 – K2 K1 – K4 K2 – K5	10	CO1-5

BOOKS FOR REFERENCE

Harvard Business School Press Harvard Business School, *Business Communication*, Publishing Harvard Business Press, 2012
Bovee, C/Thill, J/Schatzman, *Business Communication Today*, 12th edition Pearson Education, 2014
Sharma, R. C/Mohan, *Business Correspondence & Report Writing*, 4th edition TMH, 2010
Kathryn Rentz and Paula, *Business Communication*, McGraw-Hill Publication, 2010

WEB RESOURCES

www.pixelmattic.com
www.businesscommunication.org

JOURNALS

International Journal of Business Communication
ABC: International Journal of Business Communication-SCImago

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/BC53												
	Course Title: Business Communication												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 2	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 4	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 5	3	3	3	3	3	3	2	2	3	3	1	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

**Interdisciplinary Core Course Offered by the
Departments of History and Commerce to
B.A. History and Tourism and B.Com. (General) Degree Programmes**

TOURISM MARKETING

CODE:23ID/IC/TM55

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To enable students to understand the principles of marketing.
- To help them to comprehend promotion strategies and pricing.
- To make students aware of the factors that affect the tourist consumer.
- To help students to understand the structure and organisation of the tourism sector.
- To enable students to comprehend the complexities of travel marketing..

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

COs	DESCRIPTION	CL
CO1	Define concepts connected to marketing and tourism.	K1
CO2	demonstrate understanding of the principles of marketing	K2
CO3	Apply the principles of marketing to the tourism industry.	K3
CO4	analyse the factors that affect the tourism industry	K4
CO5	evaluate tourism attractions and destinations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Basic Principles of Tourism Marketing 1.1 Tourism Marketing - A Perception - Purpose and Constraints of Tourism Marketing 1.2 Service Characteristics of Tourism Marketing 1.3 Role and Functions of Tourism Managers	K1-K3 K4-K5 K1-K5	15	CO1-5
2	Marketing Mix for Tourism 2.1 Marketing Mix - variables - 7 P's 2.2 Tourism Promotion - Introduction, Need, and Kinds of Promotion 2.3 Distribution Strategy - Channel Design - Functions and Types of Channel Members	K1-K3 K1-K4 K1-K4	15	CO1-5
3	Tourist Consumer Behaviour 3.1 Characteristics and Decision-Making Process 3.2 Typologies 3.3 Factors Affecting Consumer Behaviour	K1-K4 K3-K5 K3-K5	15	CO1-5

4	Tourism Marketing Strategies 4.1 Destination Branding 4.2 Brand Positioning 4.3 Choosing a Destination - Role of DMO	K1-K3 K1-K4 K3-K5	15	CO1-5
5	Tourism Market Segmentation and Pricing 5.1 Tourism Market Segmentation - Introduction, Objectives, Levels of Segmentation and Patterns 5.2 Pricing - Introduction - Factors Affecting Pricing 5.3 Methods and Strategies of Pricing	K1-K3 K3-K5 K1-K4	18	CO1-5

BOOKS FOR STUDY

Kottler, Philip; John Bowen, and James Makens. *Marketing for Hospitality and Tourism*. Pearson, 2014.

Dasgupta, Devashish. *Tourism Marketing*. Pearson, 2011.

Chaudhary, Manjula. *Tourism Marketing*. Oxford Higher Education. 2010.

Bhatia, A.K. *Tourism Management and Marketing*. New Delhi: Sterling Publishers, 1997.

Holloway, J. C. and R.Y. Plant. *Marketing for Tourism*. London : Pitman Publishing, 1998.

Sinha, P.C. *Tourism Management*. New Delhi: Anmol Publishers, 1997.

Buhalis, D., and Costa C. (ed.) *Tourism Management Dynamics*. London : Heinemann, 2006.

BOOKS FOR REFERENCE

Collman, M.M. *Tourism Marketing*. New York: Van Nostrand Reinhold, 1989.

Batra, G.S. and R.C. Dangwal. *Tourism Promotion and Development: New Advances*. New Delhi: Deep and Deep, 2007.

Buhalis, D. and Costa C. *Tourism Business Frontiers - Consumers, Products and Industry*. London: Heinemann, 2006.

Telter, David J. and R. Sharpley. *Tourism and Development in the Developing World*. London: Routledge, 2001.

WEB RESOURCES

www.tourismmarketingconcepts.com

JOURNALS

International Journal of Tourism Research, (Ed. Joh Fletcher), (Bi Monthly)

Tourism Management, Elsevier

Journal of Hospitality and Tourism, Sage Publication

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/TM55												
	Course Title: Tourism Marketing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	2	3	3	2	1	3	3	2	3	3
CO 2	2	2	3	2	3	3	2	1	3	3	3	2	2
CO 3	2	2	3	2	3	2	2	1	2	3	2	3	2
CO 4	2	2	3	2	3	3	2	1	1	3	2	3	3
CO 5	2	2	3	2	3	3	2	2	2	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

CORPORATE ACCOUNTING

CODE: 23CM/MC/CA 64

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide conceptual knowledge of basic accounting principles and accounting standards in the preparation of financial statements of a company
- To acquaint the students with the provisions of Companies Act and its latest amendments.
- To enable the students to acquire the skills to interpret and analyse the cash position of the Company
- To familiarise the techniques to be followed in case of internal and external reconstruction.
- To facilitate the preparation of financial statements related to decision making for a company.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Identify the basic Accounting Principles and Accounting Standards in the preparation of Financial Statements	K1
CO2	Understand the concept of reconstruction of a company and valuation of shares & Goodwill	K2
CO3	Apply the relevant accounting principles in the preparation of financial statements and Cash flow statements	K3
CO4	Acquire the skills to interpret and analyse the financial position of the Company	K4
CO5	Prepare various financial statements related to a company for decision making.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Financial Reporting 1.1 Disclosure in Annual Accounts – Notes forming part of Financial Statements 1.2 Computation of Managerial Remuneration – Provisions pertaining to Managerial Remuneration 1.3 Preparation of Profit and Loss Account and Balance Sheet of Corporate entities	K1 – K2 K2 – K5 K2 – K5	13	CO1-5
2	Preparation of Cash Flow Statements 2.1 Operating activities, investing activities and financing activities 2.2 Preparation of Cash Flow Statements as per AS-3, ICAI	K1 – K4 K1 – K5	15	CO1-5
3	3.1 Acquisition of Business 3.1.1 When new set of books are opened 3.1.2 When same setoff books are continued 3.2 Profit Prior to Incorporation 3.2.1 Ascertainment of pre and post incorporation profit 3.2.2 Statement of Profit and Loss	K1 – K4 K1 – K4	12	
4	Valuation of Goodwill and Shares 3.1 Meaning, Need and Factors to be considered for Valuing Goodwill and Shares 3.2 Methods of Valuation of Goodwill – Average Profits, Weighted Average Profits, Super Profits, Capitalisation of Super Profits, Annuity Method - with adjustments 3.3 Methods of Valuation of Shares – Intrinsic Value, Yield Value and Fair Value	K1 – K2 K1 – K4 K1 – K5	12	CO1-5
5	Internal Reconstruction including Alteration of Share Capital 4.1 Alteration of Share Capital – Types – Accounting Procedure 4.2 Internal Reconstruction – Types and Legal Provisions 4.3 Accounting Entries and Preparation of Balance Sheet after Internal Reconstruction	 K1 – K4 K1 – K2 K1 – K5	13	CO1-5

BOOKS FOR STUDY

Gupta R.L and Gupta V.K., *Introduction to Corporate Accounting*, S Chand, 2016

Reddy, T.S and A. Murthy., *Corporate Accounting*, Margham, 2017

BOOKS FOR REFERENCE

Jain S. P and Narang K. L., *Advanced Accountancy (Vol- II)*, Kalyani, 2016

M. Hanif and Mukherjee A., *Corporate Accounting, 2nd Edition*, TMH, 2017

Bhushan Kumar Goyal, *Taxman's Corporate Accounting*, 6th Edition, 2019

Goyal V.K., *Corporate Accounting*, 2018

WEB RESOURCES

www.icaai.org

www.emeraldinsight.com

www.accaglobal.com

www.journals.elsevier.com

JOURNALS

Journal of Institute of Chartered Accountants of India

Journal of Corporate Accounting and Finance.

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/CA64												
	Course Title: Corporate Accounting												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	1	1	1	3	2	3	1	2
CO 2	2	3	2	2	1	1	1	1	3	2	3	1	2
CO 3	2	3	2	2	1	1	1	1	3	2	3	1	2
CO 4	2	3	2	2	1	1	1	1	3	2	3	1	2
CO 5	2	3	2	2	1	1	1	1	3	2	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

SUPPLY CHAIN AND LOGISTICS MANAGEMENT

CODE: 23CM/MC/SM63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To familiarise students about supply chain management concepts, principles, and terminologies.
- To familiarise students with the recent trends in Logistics
- To assist students on how to integrate various components of the supply chain, including transportation, distribution, inventory management and information technology.
- To know the role and challenges of retail logistics
- To provide insights to students on managing supply chain in a global context

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	Recognize the fundamental concepts of supply chain and logistics management	K1
CO2	Explain the significance of the transport and distribution in achieving business objectives	K2
CO3	Identify supply chain practices in business and relate to the recent developments	K3
CO4	Analyze the supply chain processes at a global level	K4
CO5	Evaluate the different Logistics Service providers	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hours	CO
1	Introduction to Supply Chain Management 1.1 Supply Chain Management – Meaning, Objectives, Functions of SCM 1.2 Participants of Supply Chain Management 1.3 Channel Management – Meaning and Functions 1.4 Role of Logistics in SCM, Logistics as an integral part of Supply Chain Management	K1 - K4 K1- K5 K1 - K5 K1 - K5	10	CO1 – CO 5
2	Introduction to Logistics Management 2.1 Logistics – Meaning, concepts and elements 2.2 Logistical Performance Cycle - Inbound logistics, In-process logistics, Outbound logistics 2.3 Logistical Competency, Integrated logistics and Green logistics 2.4 Customer Service - as a Key element of Logistics – Meaning, Elements and Levels of Customer Service	K1 - K5 K1– K5 K1– K3 K1– K5	12	CO1 – CO 5
3	Transport and Distribution 3.1 Role of Transportation in Supply Chain- Factors affecting Transportation 3.1.1 Modes of Transportation – Railways, Roadways, Airways, Waterways, Pipelines and Ropeways 3.2 Role of Distribution in Supply Chain- Factors influencing Distribution Network 3.3 Warehousing – Principles, Factors affecting warehousing and types 3.4 Packaging – Functions and Benefits of Packaging, Design consideration in Packaging and types of Packaging material 3.5 Material Handling in SCM – Meaning, Objectives, Principles and Systems of Material Handling	K1 - K5 K1 - K5 K1 - K5 K1 - K5 K1 – K5	12	CO1 – CO 5
4	Inventory Management and Information Technology in Supply Chain Management 4.1 Inventory Management – Meaning, Objectives, Techniques of Inventory Management 4.2 Role of IT in Supply Chain Management – Introduction, Objectives, Logistical Information System – Principles of LIS and Types of LIS, Infrastructural requirements	K1-K4 K1-K5	8	CO1 – CO 5

UNIT	CONTENT	CL	Hours	CO
5	Recent Trends in Logistics and Supply Chain Management 5.1 Global Supply Chain – Issues and Challenges 5.2 Logistics Trends - Modern Logistics Infrastructure – Golden Quadrilateral, Logistics Parks, Deep water Ports, Dedicated Freight Corridor, Inland Container Depots/Container Freight Stations, Maritime Logistics, Double Stack Containers/Unit trains 5.3 Logistics Outsourcing – Meaning, Objectives, Benefits/Drawbacks of Outsourcing, Third party Logistics Provider, Fourth party Logistics Provider, Selection of Logistics Service Provider	 K1-K3 K1-K5 K1-K5	10	CO1 – CO 5

BOOKS FOR STUDY

Sunil Chopra, Peter Meindl, *Supply Chain Management*, Pearson Education, India. Donald J. Bowerson, *Logistic and Supply Chain Management*, Prentice Hall of India

BOOKS FOR REFERENCE

Gwynne Richards *Warehouse Management: A Complete Guide to Improve Efficiency and Minimizing Cost in the Modern Warehouse*. The Chartered Institute of Logistics and Transport, Kegan page limited. 2014

Burt, Dobbler, Starling, *World Class Supply Management*, TMH

WEB RESOURCES

<https://sjce.ac.in/wp-content/uploads/2021/10/jnu-Supply-Chain-Management.pdf>

https://www.tutorialspoint.com/supply_chain_management/supply_chain_management_tutorial.pdf

JOURNALS

Supply Chain Management – An International Journal
Logistics and Supply Chain Management

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/SM63												
	Course Title: Supply Chain and Logistics Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	3	2	2	1	3	2	1	1	2
CO 2	3	2	1	1	2	2	3	1	2	2	2	2	2
CO 3	3	3	2	2	2	3	3	1	2	3	2	2	3
CO 4	2	2	2	2	2	2	3	1	2	3	3	2	3
CO 5	2	2	1	1	3	3	1	1	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

ENTREPRENEURIAL DEVELOPMENT

CODE: 23CM/MC/ED 64

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide comprehensive knowledge on the various aspects related to entrepreneurial development
- To familiarise the students with a conceptual and practical foundation for entrepreneurial practice
- To acquaint the students with the sources of entrepreneurial finance.
- To encourage students to venture into entrepreneurship
- To facilitate and assist the students in setting up of a business venture of their own.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	highlight the need and significance of entrepreneurship.	K1
CO2	explain the importance of marketing and management in new business ventures	K2
CO3	probe the possibility for raising funds for a new start-up business and formulate a business plan accordingly	K3
CO4	analyse the business environment in order to identify business opportunities	K4
CO5	evaluate a business idea and explore the possibility of setting up a new business	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Entrepreneurship, Entrepreneur and Enterprise - Meaning, Definition, Characteristics and Qualities for an Ideal Entrepreneur 1.2 Functions and Types of Entrepreneur - Social Entrepreneur, Rural Entrepreneur, Self-help Group, E-entrepreneur, etc. 1.2.1 Women Entrepreneurs – Role and Challenges	K1 – K3 K2 – K5	15	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	1.3 Role of Entrepreneurship in Economic Development 1.3.1 Factors contributing to the growth of entrepreneurial development - Internal and External environment - Psychological, Economic and Non - economic, Social, Cultural, Political, Legal	K1 – K3 K3 – K5 K3 – K5		
2	Business Idea generation and selection 2.1 Opportunity Identification and Selection 2.2 Idea Generation and Screening of Business Idea 2.2.1 Sources of Business Idea – Internal and External 2.2.2 Evaluation of Business Idea 2.2.3 Selection of Business Idea 2.2.4 Environmental Analysis - Scanning, SWOT Analysis.	K1 – K5 K2 – K5 K3 – K5 K3 – K5 K1 – K5 K1 – K5	15	CO1-5
3	Project Proposal 3.1 Project Identification and Classification 3.1.1 Project – Meaning and Types 3.1.2 Internal and External Constraints in Identifying Project 3.1.3 Project Life Cycle 3.2 Project Formulation 3.2.1 Meaning and Stages in Project Formulation 3.2.2 Need and Significance of Project Formulation 3.2.3 Elements of Project Formulation 3.2.4 Project Feasibility Report – Planning commission guidelines	K1 – K3 K2 – K5 K1 – K3 K1 - K5 K3 – K5 K3 – K5 K3 – K5	15	CO1-5
4	Preparation of a Business Plan 4.1 Business Plan – Meaning, Contents and Significance of Business Plan 4.2 Business Plan – Process and Advantages 4.3 Preparing Business plan/Model Project Report for Starting a New Venture	K1 – K3 K3 – K5 K3 – K5	10	
5	Entrepreneurial Finance 5.1 Financial Planning – Meaning and Need 5.2 Sources of finance – Internal and External 5.3 Start-up finance - Venture Capital 5.4 Government Assistance through Subsidies and Incentives	K1 – K5 K2 – K5 K2 – K5 K3 – K4	10	CO1-5

BOOKS FOR STUDY

S.S.Khanka, *Entrepreneurial Development*, S. Chand & Co, New Delhi, 2015
Desai, V. *Dynamics of Entrepreneurship Development and Management*, New Delhi: Himalaya Publishers, 2015

BOOKS FOR REFERENCES

Jayashree Suresh, *Entrepreneurial Development*, Margham Publications, New Delhi, 2015
C.B. Gupta & N. P. Srinivasan, *Entrepreneurial Development*, Sultan Chand & Sons, 2016
Poornima, C. *Entrepreneurship Development - Small Business Enterprises*. New Delhi: Pearson, (2011).
Robert D. H.& Peters, M.P. *Entrepreneurship*. New Delhi: Tata McGraw Hill, 2013
Gopalakrishnan, P. *Textbook of Project Management*. New Delhi: Macmillan, 2014

WEB RESOURCES

<http://www.entrepreneur.com>
<http://www.businessesforsale.com>
<http://www.sba.gov>
<http://joe.sagepub.com/content/19/2.toc>

JOURNALS

International Journal of entrepreneurship development and Small business
Journal of entrepreneurship education
Journal of Business venturing
International Journal of Project Management

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/ED64												
	Course Title: Entrepreneurial Development												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 3	2	3	3	2	3	3	3	3	3	3	3	3	3
CO 4	2	3	3	2	3	3	3	3	3	3	3	3	3
CO 5	2	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

AUDITING

CODE: 23CM/MC/AG64

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an understanding of the principles and techniques of auditing
- To acquaint students with audit process and procedures
- To familiarise with the current legal requirements and professional standards
- To enable the students to verify the financial position of a company
- To expose the e-environment audit initiatives

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able

COs	DESCRIPTION	CL
CO1	outline the role and responsibility of an auditor	K1
CO2	explain the procedure and techniques of auditing.	K2
CO3	examine the various audit evidences	K3
CO4	appraise the audit process and verify the financial position of a company	K4
CO5	adapt to the e-audit environment of the companies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Auditing - Meaning and Objective 1.1 Audit Planning and Internal Control 1.1.1 Internal Check and Internal Audit 1.3 Working Papers and Audit Programmes 1.4 Auditing Standards - ICAI	K1-K3 K1-K3 K1-K4 K1-K4 K1-K3	10	CO 1-4

UNIT	CONTENT	CL	Hrs	CO
2	Audit Evidence 2.1 Vouching –Importance and Objectives 2.2 Factors to be considered during Vouching 2.3 Importance of Reconciliation- Bank, Debtors, Creditors, Material and Statutory Dues 2.4 Types of Audit Evidence	K1-K3 K1-K3 K1-K5 K1-K4	15	CO 1-5
3	Verification of Assets and Liabilities 3.1 Verification- Objectives and Importance 3.2 Verification of Assets 3.3 Verification of Liabilities	K1-K3 K1-K5 K1-K5	15	CO 1-5
4	Audit of Limited Companies 4.1 Appointment and Removal of an Auditor 4.2 Rights, Duties of an Auditor 4.3 Liabilities of an Auditor	K1-K3 K1-K5 K1-K5	15	CO 1-5
5	Audit Report 5.1 Audit Report including New Audit Reporting Requirements 5.2 Auditing in an e-Environment- Computer Assisted Auditing Techniques	K1-K4 K1-K5	10	CO 1-5

BOOKS FOR STUDY

Tandon, B. N. *Handbook of Practical Auditing*. New Delhi: S.Chand, 2018.
 Sharma.J.P. *Corporate Governance, Business Ethics and CSR*, New Delhi: Ane Books Pvt Ltd,2016
 Anil Kumar. *Corporate Governance,Theory and Practice*. NewDelhi: Indian Book House,2012

BOOKS FOR REFERENCE

Anil Kumar. *Corporate Governance, Theory and Practice*. NewDelhi: Indian Book House,2012
 De Paula, F.R.M. *Principles of Auditing: A practical manual for student and practitioners*. London: E.L.B.S., 2015.
 Pagare, Dinakar..*Auditing* New Delhi: Sultan Chand, 2016.
 Saxena, R. G *Principles and Practices of Auditing* Himalaya Publishers, Mumbai: 2010.

WEB RESOURCES

www.neoxen.com/neoxen/methodology/docs/intro_auditing_online.pdf
www.academia.edu/7505528/verification_and_valuation
www.e-economic.co.uk/accountingsystem/glossary/auditors-report
accountlearning.blogspot.in/2012/02/advantages-of-audit-program.html

JOURNALS

International Journal of Auditing

Auditing: A journal of Practice and Theory

Journal of Accounting, Auditing and Finance

Accounting, Auditing and Accountability Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

Mapping of Course Outcomes (Cos)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/MC/AG64												
	Course Title: Auditing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	3	2	1	3	2	3	2	2
CO 2	3	3	2	2	2	2	1	1	3	2	3	1	2
CO 3	3	2	2	2	1	2	2	1	2	2	2	2	2
CO 4	3	2	2	2	1	2	1	1	3	1	2	2	2
CO 5	2	2	1	2	2	2	2	1	3	2	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi- Canticle of creatures
Seeking the Divine through meditation, prayer and worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and Democratic

- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion’s vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one’s past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

ORGANIZATIONAL BEHAVIOR

CODE: 23CM/ME/OB45

CREDITS : 5

L T P : 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the work culture and overcome differences among employees.
- To understand relevance of individual and group behaviour in a work environment
- To examine the importance of various factors such as motivation, perception, attitudes and emotions that influence employee behaviour
- To assess how organizational culture can be aligned with organizational goals
- To resolve conflicts and manage stress

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	comprehend the different concepts of organizational behaviour	K1
CO2	integrate the motivation theories with the organizational culture	K2
CO3	determine the complexities associated with group behaviours in organizations	K3
CO4	assess the impact of culture on organizational behaviours	K4
CO5	evaluate the organizational change and importance of stress management for a positive work culture	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Organizational Behaviour – Definition, Nature and Important Concepts 1.2 Challenges and Opportunities in an Organizational Structure 1.3 Innovation and creative groups 1.4 Strategies for retaining and engaging a diverse workforce – Hofstede's Theory	K1- K2 K2 - K4 K1- K3 K1- K5	15	CO1-5
UNIT	CONTENT	CL	Hrs	CO

2	Individual Traits 2.1 Personality – Definition, Personality Traits 2.2 Briggs Type Indicator – Five Personality Models 2.3 Perception – Factors of Perception 2.4 Motivation Need and Importance – Theories of Motivation (Adam’s Equity theory and Mc Clellands theory of needs) 2.5 Job Design – Job Rotation, Job Enlargement, Job Enrichment, Job Simplification 2.5 Job Characteristics Theory Attitudes – Attitude Formation and tri- component Model	K3 - K4 K1- K5 K3 - K4 K3 - K4 K2 - K3	15	CO1-5
3	Group Dynamics 3.1 Meaning, Nature and Types of Groups, Group Norms, Group Cohesiveness 3.2 Leadership Styles – Transformational, Transactional, Charismatic Leadership 3.3 Conflict – Types of Conflict, Conflict Resolution and Management 3.4 Stress Management - Sources of Stress - Individual and Organizational approaches to managing stress	K1-K4 K2 - K3 K1 –K5 K1 - K5	15	CO1-5
4	Organizational Culture 4.1 Organizational Culture - Meaning and Characteristics 4.2 Impact of Culture on Organizational Performance 4.3 Functional and Dysfunctional Aspects of Organizational Culture 4.4 Cultural Change and Transformation – Cultural Artefacts 4.5 Culture and Employee Engagement	K1-K3 K3-K5 K1-K4 K3-K4 K3-K4	10	CO1-CO5
5	Organizational Change for Development 5.1 Meaning and Importance of Change for Development - Forces for Change – Sources of resistance to change 5.2 Managing Organizational Change – Lewin’s Theory and Kotter’s eight step plan for implementing change 5.3 Individual and Group Decision making models	K1-K3 K1-K4 K1-K5	10	CO1-5

BOOKS FOR STUDY

Neharika Vohra Stephen P. Robbins, Timothy A. Judge. *Organizational Behavior, 18e (updated) Paperback* – 31 May 2022 Pearson
Aswathappa, K. *Organizational Behaviour*, New Delhi : Himalaya, 2014

BOOKS FOR REFERENCE

Steven L. McShane, Mary Ann Von Glinow, Himanshu Rai. *Organizational Behaviour / 9th Edition Paperback* – 26 July 2022
L.M Prasad. *Organizational Behaviour*, New Delhi: Sultan Chand, 2014
C.B. Gupta, *A Textbook of Organizational Behaviour*, New Delhi : Sultan Chand, 2014
S.S. Khanka. *Organizational Behaviour (Text and Cases)*, New Delhi : Sultan Chand, 2007

WEB RESOURCES

<http://onlinelibrary.wiley.com>
www.exed.hbs.edu www.hbr.org

JOURNALS

Journal of Organizational Behaviour
Journal of Occupational Behaviour
Journal of Organizational Culture, Communication and Conflict

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/OB45												
	Course Title ORGANIZATIONAL BEHAVIOR												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

ADVERTISING AND MEDIA MANAGEMENT

CODE: 23CM/ME/AM45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with creative strategies in advertising
- To educate students on the importance of media advertising
- To assist students to create an Advertisement Copy
- To equip students to select the right media for advertising.
- To impart knowledge on cost effective advertising.

COURSE LEARNING OUTCOMES

On successful completion of the course. The students will be able to

CO'S	DESCRIPTION	CL
CO1	Identifying the meaning of Advertising and its importance in marketing	K1
CO2	Understand the role of Advertising as a promotional tool	K2
CO3	Apply the steps involved in the process of Advertising	K3
CO4	Analyse the different types of advertising media options and strategies	K4
CO5	Create their own Advertisement Copy	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning, Definition and Evolution of Advertising 1.2 Role of Advertising 1.3 Advertising as a Promotional tool 1.4 Economic, Social and Ethical Aspects of Advertising 1.5 Advertising as a Communication Process	K1 K2 K1-K2 K1-K4 K1-K2	10	CO 1-5

UNIT	CONTENT	CL	HRS	CO
2	Creative Strategy Management 2.1 Advertisement Copy and Advertisement Designing 2.1.1 Meaning- Preparation and process 2.1.2 Types of Advertisement Copy 2.1.3 Elements of Advertisement Copy and Advertisement Design 2.2 Advertisement Layout 2.2.1 Structure of an Advertisement Layout 2.2.2 Principles of Advertisement Layout	K1-K5 K1-K3 K3-K5 K2-K5 K1-K5 K1-K5	15	CO 1-5
3	Advertising Campaign Planning 3.1 Marketing Strategy and Situational Analysis 3.2 Advertising Plan and Objectives 3.3 DAGMAR Approach 3.4 Preparation of Campaign- Stages in Campaign Process	K1-K3 K1-K3 K1 – K3 K1- K5	15	CO 1-5
4	Advertising Media Strategy 4.1 Role of Media, Types of Media- Indoor, Outdoor, Electronic and Online - Advantages and Disadvantages 4.2 Media Planning-Selection and Scheduling	K3-K4 K3-K5	15	CO 1-5
5	Media Management strategies 5.1 Media Choice Criteria- Factors affecting Choice of Media 5.2 Choosing the right Advertising Agency - Role, Types and Functions of Advertisement Agencies, Selection and Co-ordination of Advertising Agency 5.3 Advertisement Budgeting- Types- Affordable Rate Method, Percentage of Sales Method, Competitive Parity Method and Objective and Task Method	K1 - K4 K3-K4 K1-K4	10	CO 1-5

BOOKS FOR STUDY

P. Saravanavel & S. Sumathi, *Advertising and Salesmanship*, Chennai, Margham Publications, 2017.

Belch, *Advertising and Promotion*. New Delhi, Tata McGraw Hill, 2017

Kenneth, E. Clow & Donald E. Baack. *Integrated Advertising Promotion & Marketing Communication*. New Delhi: Prentice Hall, 2015.

BOOKS FOR REFERENCE

Bovee, John.Courtland. L.George, Dovel.P and Wood, Marian Burk. *Advertising Excellence*, New Delhi, Tata McGraw Hill. 1994

Wells. *Advertising Principles and Practice*, New Delhi, Prentice Hall of India, 2016

Christina Spurgeon. *Advertising and New Media*. USA Taylor & Francis,

Appannaiah.H.R and Ramnath, *Advertising and Media Management*, Himalaya Publisher,2016

JOURNAL

Journal of Advertising

Journal of Advertising Research

Journal of Advertising Education

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components: Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination: Total Marks: 100 Duration: 3 hours.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/AM45												
	Course Title: ADVERTISING AND MEDIA MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	1	1	2	3	1	1	3	1	1	2	1
CO 2	2	3	1	3	1	3	3	1	3	2	1	2	1
CO 3	1	3	1	1	2	3	2	2	1	2	1	3	2
CO 4	1	2	3	2	2	1	2	2	2	1	1	3	1
CO 5	1	3	3	3	3	3	3	3	1	3	1	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

RETAIL MANAGEMENT

CODE: 23CM/ME/RM45

CREDITS: 5

L T P : 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint the students with the knowledge of contemporary retail management issues
- To give a clear picture on the concepts of retailing
- To enable the students to understand the functioning of the retail industry
- To comprehend the buyer behaviour in Retail business
- To expose the students to the challenges faced in Retail business

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COS	DESCRIPTION	CL
CO1	Relate to the concepts of Retail Management in practice	K1
CO2	Gain a perspective on challenges of Retail markets	K2
CO3	Examine the factors influencing Retail marketing mix and analyse their components	K3
CO4	Justify the consumer behaviour and buying process	K4
CO5	Evaluate the modern trends in retailing	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Retailing 1.1 Meaning, Definition of Retailing, Growing Importance of Retail Concept 1.2 Functions of Retailing-Dynamic Nature 1.3 Retail Formats 1.4 Retail Business in India-Influencing Factors, Present Indian Retail Scenario	K1 – K2 K1-K2 K2-K3 K1- K5	12	CO1 – CO5

2	Retail Marketing Mix 2.1 Product-Decisions related to Choice of Goods and Service Delivery 2.2 Pricing-Influencing Factors, Approaches to Pricing 2.3 Supply Channel –Principles and Retail Logistics 2.4 Retail Promotion-Objectives and Promotional Mix	K1-K3 K1-K4 K3-K5 K1-K2	12	CO1 – CO5
3	Retail Operations 3.1 Factors Influencing Location of Stores - Atmospherics 3.2 Stores Layout and Visual Merchandising- Stores Designing, Space Planning and Inventory Management 3.3 Merchandise Management- Need, Importance and Process, Retail Strategies	K1 -K2 K1-K5 K1-K5	15	CO1- CO5
4	Consumer Behaviour in Retail Business 4.1 Buying Decision Process and Implication in Retailing 4.2 Customer Shopping Behaviour- Customer Service and Customer Satisfaction 4.3 Customer Relationship – Customer Retention	K2-K5 K1-K3 K1-K3	15	CO1- CO5
5	Emerging Trends in Retailing 5.1 Changing Nature of Retailing 5.2 Organised Retailing, Modern Retailing and E- Tailing 5.3 Challenges faced by Indian Retail Sector- Legal Aspects in Retailing, Social and Ethical Issues in Retailing	K1-K2 K3-K4 K3-K5	11	CO1- CO5

BOOKS FOR STUDY

Michael Levy and Barton A Weitz, *Retailing Management*, Tata Mc Graw Hill, New Delhi, 2017

David Gilbert, *Retail Marketing* New Delhi, Prentice Hall of India Pvt Ltd, 2nd edition, 2007

BOOKS FOR REFERENCE

Chetan Bajaj, *Retail Management*, Oxford Publication

Natarajan, *Retail Marketing*, Margham Publication, Chennai, latest edition

Uniyal and Sinha, *Retail Management*, Oxford Publication

Barry Bermans and Joel Evans, *Retail Management- A Strategic Approach* Prentice Hall,

Edition Tiwari.T.S, *Retail Management*, Himalaya Publishing House

JOURNALS

Journal of Retailing- Elsevier

International Journal of Retailing and Distribution Management International Journal of Retailing Management and Research

The International Review of Retail, Distribution and Consumer Behaviour

WEB RESOURCES

www.managementstudyguide.com/retail-management

www.knowthis.com/retailing

www.yourarticlelibrary.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/RM45												
	Course Title: Retail Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	1	2	2	1	1	3	2	1	1	1
CO 2	1	3	3	2	2	1	2	2	2	2	2	1	1
CO 3	3	3	3	2	3	3	2	2	2	3	2	2	2
CO 4	3	3	3	1	3	3	3	3	1	2	2	3	2
CO 5	2	2	2	3	3	3	3	3	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

CODE: 23CM/ME/SP45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide conceptual knowledge on investment and securities analysis
- To develop an understanding on wealth maximization and risk minimization using securities and portfolio analysis techniques.
- To provide computational knowledge on investment alternatives that maximize the returns and minimize the risk.
- To familiarize the concept of intrinsic value of a security through fundamental analysis.
- To study the movements and fluctuations through technical charts and patterns.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

CO'S	DESCRIPTION	CL
CO1	Build conceptual knowledge and understanding on investment and securities analysis	K1
CO2	Undertake portfolio analysis to determine risk and return for portfolio construction	K2
CO3	Study the movements and fluctuation through technical charts and patterns	K3
CO4	Apply EIC approaches for investment decisions and portfolio construction	K4
CO5	Estimate the value of bonds and equities for investment decisions	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HOURS	CO
1	Introduction 1.1 Investment – Meaning, Definition and Objectives 1.2 Investment Alternatives 1.3 Difference between Investment, Speculation and Gambling 1.4 Security Analysis and Portfolio Management - Definition and Meaning 1.5 Principles and procedures of Portfolio Management	K1 – K2 K1 – K4 K1 – K2 K1 - K2 K1 – K5	10	CO1 – CO5
2	Risk and Return Analysis - Security 2.1 Risk – Meaning and types 2.2 Return – Meaning and components 2.3 Risk-return Trade off 2.4 Computation of Risk and return of an individual security	K1 – K5 K1 – K3 K1 - K2 K1 – K5	15	CO1 – CO5
3	Portfolio Analysis 3.1 Computation of Risk and return of Portfolio - Modern Portfolio Theory – Markowitz Model and Single Index Model (SIM), CAPM – Capital Asset Pricing Model 3.2 Portfolio Performance Evaluation – Sharpe’s Measure, Treynor’s Measure and Jensen’s Measure	K1-K5 K1-K5	15	CO1 – CO5
4	Equity Valuation and Bond Valuation 4.1 Equity Valuation Based on Dividend 4.2 Equity Valuation Based on Earnings – Gordon Model, Walter’s Model, PE Ratio and ERP (Explicit Resale Price Methods) 4.3 Bond Valuation – Bond Pricing, Yield to Maturity (YTM), Yield to Call (YTC)	K1 - K5 K1 – K5 K1 – K5	15	CO1 – CO5
5	5.1 Fundamental Analysis 5.1.1 Economic Analysis – Theory 5.1.2 Industry Analysis – Theory 5.1.3 Company Analysis 5.2 Technical Analysis 5.2.1 Basic Assumptions of Technical Analysis 5.2.2 Theories, Techniques and Methods of Movement of Stock Prices 5.2.3 Important Charts and Patterns in technical Analysis	K1 - K5 K1 - K5 K1 – K5 K1 – K3 K1 – K3 K1 – K3	10	CO1 – CO5

BOOKS FOR STUDY

Prasanna Chandra, *Investment Analysis and Portfolio Management*, McGraw Hill, 2021
Dr. R.P. Rustagi, *Investment Analysis and Portfolio Management*, Sultan Chand & Sons, 2019
Security Analysis and Portfolio Management – Dr. L. Natarajan, Margham Publications.

BOOK FOR REFERENCE

V.K. Bhalla, *Investment Management* S. Chand Publications
Punithavathy Pandian, *Security Analysis and Portfolio Management*, Vikas Publishing House
Subrata Mukherjee, *Security Analysis and Portfolio Management*, Vikas Publishing House

JOURNALS

Security Analysis and Portfolio Management – A Primer (Springer)
Securities Analysis and Portfolio Management using Artificial Neural Networks (SSRN)

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components: Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination: Total Marks: 100 Duration: 3 hours.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/SP45												
	Course Title: SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	2	2	2	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

ADVANCED CORPORATE ACCOUNTING

CODE: 23CM/ME/AA45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to the accounting practices in specific industries
- To provide comprehensive knowledge about corporate accounting concepts
- To acquaint students with the accounting procedures for mergers and acquisitions
- To equip students with the ability to prepare consolidated financial statements
- To provide an understanding of the provisions relating to liquidation of a company

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	Comprehend the accounting procedures for mergers and acquisition	K1
CO2	Prepare the consolidated financial statements of Holding companies	K2
CO3	Solve problems relating to the financial statements of Banking companies	K3
CO4	Categorize and prepare financial statements of Insurance companies	K4
CO5	Summarize accounts pertaining to Liquidation of companies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Holding Company Accounts 1.1 Meaning, Definition of Holding Company and Subsidiary Company 1.2 Preparation of Consolidated Balance Sheet – Calculation of minority interest, revenue profit, capital profit and cost of control or goodwill 1.4 Dividend received and Bonus shares	K1-K2 K3-K5 K3-K5	12	CO1-5
2	Amalgamation, Absorption and External Reconstruction 2.1 Meaning and Difference 2.2 Calculation of purchase consideration for amalgamation in the nature of merger and purchase 2.3 Accounting treatment in the books of the purchasing company and vendor company for merger and purchase excluding inter-company holdings	K1-K2 K1-K4 K1-K5	15	CO1-5
3	Bank Accounts 3.1 An overview of special terms in Bank accounting 3.2 Treatment of rebate on bills discounted 3.3 Computation of provision to be made for advances 3.4 Preparation of Profit and Loss account with schedules 3.5 Preparation of Balance Sheet with schedules	K1-K2 K2-K3 K1-K3 K1-K5 K1-K5	14	CO1-5
4	Insurance Accounts 4.1 An overview of special terms in Insurance Accounting 4.2 Accounts of General Insurance 4.3 Accounts of Life Insurance Companies	K1-K2 K3-K5 K3-K5	14	CO1-5
5	Liquidation of Companies 5.1 Meaning of Liquidation or Winding up, Modes of Winding up 5.2 Preparation of Statement of Affairs and Deficiency or Surplus account 5.3 Preparation of Liquidator's Final Statement of accounts	K1-K2 K2-K5 K2-K5	10	CO1-5

BOOK FOR STUDY

Gupta, R.L., Radhaswamy, M., *Advanced Accountancy (Vol I, III & IV)*, New Delhi, Sultan Chand and Sons, 2020.

Reddy, T.S., Murthy, A., *Corporate Accounting*, 6th revised edition, Chennai, Margham Publications, 2015

BOOKS FOR REFERENCE

Arulanandam, M.A., Raman, K.A., *Corporate Accounting*, 6th edition, Mumbai, Himalaya Publishing House, 2001.

Jain, S.P., Narang, K.L., *Advanced Accountancy (Part II)*, 15th edition, New Delhi, Vikas Publishing House, 2016.

Maheshwari, S.N., *Advanced Accountancy (Part II)*, 9th edition, New Delhi, Vikas Publishing House, 2006.

Joseph T. *Corporate Accounting*, 2nd edition, Tata McGrawhill Publications, 2009

Jain S. P and Narang K. L., *Advanced Accountancy (Vol- II)*, Kalyani, 2016

JOURNALS

Advances in Accounting Journal of Finance

Indian Journal of Commerce

Journal of Corporate Accounting and Finance

WEB RESOURCES

www.icai.org

www.emeraldgroupublishing.com

www.journals.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/AA55												
	Course Title: ADVANCED CORPORATE ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	2	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	2	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

CONSUMER BEHAVIOUR

CODE:23CM/ME/CB45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To acquaint the students on the concept of consumer behaviour.
- To expose the students to consumer needs and wants.
- To provide knowledge on factors influencing consumer choice and purchase behaviour.
- To enable students to understand the target market and product positioning.
- To determine consumer preferences and choices.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	To acquaint students about their behaviour as a consumer	K1
CO2	To understand the models of consumer decision making process	K2
CO3	To identify the bases of market segmentation, target markets and product positioning	K3
CO4	To analyze the marketing strategies affecting consumer behaviour	K4
CO5	To evaluate the factors that determine consumer behaviour.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HOURS	CO
1	Introduction to Consumer Behaviour 1.1 Definition - Meaning, Nature and Types 1.2 Scope and Importance of Consumer Behaviour. 1.3 Buying motives – Rational and Emotional	K1-K2 K1-K2 K1-K3	10	CO1-5
2	Consumer Decision Making Process 2.1 Meaning – Consumer Decision Making Process – Levels of Consumer Decision Making 2.2 Perceptions, Learning and Attitudes 2.3 Models of Consumer Decisions: Black Box Model, Learner Model, Economic Model	K1-K5 K1-K4 K3-K5	15	CO1-5

Unit	Content	CL	Hours	CO
3	Reference Group Influences 3.1 Functions of family – Family Life Cycle, family decision making process 3.2 Types of groups – Consumer relevant groups and Reference Groups 3.3 Characteristics and core values of Culture and Sub-Culture	K1-K4 K1-K4 K3-K5	15	CO1-5
4	Consumer Behaviour Analysis 4.1 Consumer Learning and Involvement 4.2 Marketing Mix Strategies - Product Strategy – Pricing Strategy – Distribution Strategy – Promotion Strategy 4.3 Consumer Decision Making Process - Problem identification and information processing - Evaluating alternatives and deciding on appropriate solutions	K1-K4 K1-K5 K3-K5	15	CO1-5
5	Relevance and Approaches of Consumer Research 5.1 Relevance and approaches of Consumer Research in Marketing 5.2 Market Segmentation – Methods and Criteria 5.3 Target Marketing and Positioning	K1-K3 K4-K5 K4-K5	10	CO1-5

BOOKS FOR STUDY

Schiffman, Kanuk and S.Ramesh Kumar, *Consumer Behaviour*, Pearson, 2015

Loudon and Bitta, *Consumer Behaviour, Concepts and Applications*, TMH, 2017

BOOKS FOR REFERENCE

Bennett and Kassanjan, *Consumer Behaviour*, Prentice Hall of BI publication, India, 2018

Jerome McCarthy E., William D Perreault, *Basic Marketing*, Boston, MA 022116,

Irwin Home Wood, 2004

Suja R. Nair, *Consumer Behaviour(Text and cases)*, Himalaya Publishing House, Mumbai, 2019

Consumer Behaviour and Marketing Strategy, Peter, J.P. and Olson, TMH, Latest Edition.

Consumer Behavior" by David Loudon and Albert Della Bitta, McGraw-Hill Education

/Asia; 4th edition

Consumer Behaviour: Text and Cases – by Satish Batra, S. H. H. Kazmi , Excel Books 2018

JOURNALS

Journal of Consumer Behavior

Journal of Consumer Research

Journal of Consumer Behavior Research

WEB RESOURCES

<https://iimbx.iimb.ac.in>

<https://www.clootrack.com>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

Mapping of Course Outcomes (COs)

Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/ME/CB45												
	Course Title: Consumer Behaviour												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	1	2	2	1	1	1	1	1	1	1	2	1
CO 2	2	2	2	2	2	3	2	3	2	2	1	3	1
CO 3	2	3	2	1	2	2	1	2	3	3	1	3	1
CO 4	2	3	3	1	3	3	2	3	3	3	1	3	2
CO 5	3	3	3	2	3	2	2	3	3	3	1	3	.3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the Department of Commerce for
B.A. / B.Sc. / B.Com. / B.V.A Degree Programmes

SYLLABUS

(Effective from the academic year 2023 – 2024)

FUNDAMENTALS OF INVESTMENT PLANNING

CODE: 23CM/GE/FI22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide students with an insight into personal finance options and to inculcate the habit of saving
- To enable students to develop skills for analyzing and planning personal investments
- To familiarize the students with different investment avenues.

COURSE LEARNING OUTCOMES (COs)

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the importance of the basics of personal savings and investment planning	K1
CO2	examine the various investment alternatives	K2
CO3	analyze the risks involved in investment	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Financial Planning 1.1 Financial planning – Meaning and Importance 1.2 Investment- Definition, Nature, Factors Influencing Investment. 1.2.1 Financial Planning- Meaning and Importance 1.2.2 The Personal Financial Planning Process, Preparation of Personal Budget 1.3 Personal Financial Statements, tax planning and legal aspects of financial planning 1.4 Investment Media, Principles, Avenues and Modes.	 K1 - K3 K1 - K3 K1 - K3 K1 - K3	10	CO1-3
2	Investment options and operational scenario. 2.1 Needs and benefits of investing 2.2 Sources of financial information 2.3 Personal Savings & Investment: Investment Criteria- Liquidity, Safety and Profitability, Savings and Instruments of Post Office and Banks, Chit Funds, Investment in Shares, Debentures, Corporate and Government Bonds 2.4 Systematic Investment Planning, National Pension Scheme, Public Provident Fund (Retirement Savings Plans, Pension Plans)	K1 - K3 K1 - K3 K1 - K3 K1 - K3	8	CO1-3
3	Insurance and Risk Management 3.1 Analysis of Risk in Investment (Theory) 3.2 Insurance Contract: Life Insurance Contract- Features, Policy, Conditions and General Insurance Plans and Products	K1 - K3 K1 - K3	8	CO1-5

BOOKS FOR STUDY

Madhu Sinha, “*Financial Planning: Theory and Practice*” Tata McGraw-Hill Publishing Company Ltd, New Delhi

Ankit Gala and Khushboo, “*Investment Planning*” Buzzing Stock Publishing house, Mumbai

BOOKS FOR REFERENCE

Dr. P.K. Gupta, *Insurance and Risk Management*, Himalaya Publishing House, Mumbai

Ranganathan and Madhumathi, *Investment Analysis and Portfolio Management*, Pearson, New Delhi

Risk analysis, Insurance and Retirement Planning; Taxmaan; 2017

Information Brouchers of Post Offices, Banks, Mutual Funds, Insurance Companies

JOURNALS

Journal of Financial Planning

Journal of Personal Finance

The Journal of Investing

WEB RESOURCES

www.moneycontrol.com

www.investopedia.com

www.amfiindia.com

www.nationwide.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the Department of Commerce for
B.A. / B.Sc. / B.Com. / B.V.A Degree Programmes

SYLLABUS

(Effective from the academic year 2023 -2024)

CUSTOMER CARE AND PROTECTION

CODE: 23CM/GE/CC22

CREDITS : 2

L T P : 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To sensitize students to the need for customer protection
- To provide an understanding to the students about the legal measures for customer protection in India
- To understand the role of different agencies in establishing product and service standards

COURSE LEARNING OUTCOMES (COs)

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the emerging issues and policies relating to consumer protection	K1
CO2	understand the rights and privileges of a customer	K2
CO3	comprehend the procedures for handling Consumer Disputes	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Conceptual Framework 1.1 Consumer and Markets 1.1.1 Concept of Consumer, Nature of Market 1.1.2 Concept of Price – Wholesale and Retail, Maximum Retail Price 1.1.3 Labelling and Pricing 1.2 Customer Satisfaction and Dissatisfaction-Factors 1.3 Rights of the Consumers	 K1 – K3 K1 – K3 K1 – K3	8	CO1-3
2	Grievance Redressal Mechanism 2.1 Types of Complaints-Frivolous Complaints and Vexatious Complaints 2.2 Grounds of Filing a Complaint, Procedure, Relief, Legal and Voluntary Measures 2.3 Doctrine of Caveat Emptor, Caveat Emptor Venditor 2.4 Role of the Media and Government	 K1 – K3 K1 – K3 K1 – K3 K1 – K3	10	CO1-3
3	Consumer Protection in India 3.1 Recent Developments in Consumer Protection in India 3.2 COPRA 3.3 Legal Cases in India 3.3.1 Banking- RBI and Banking Ombudsman 3.3.2 IRDA 3.3.3 Telecommunication-TRAI 3.3.4 Food Products-FSSAI 3.3.5 Advertising-ASCI	 K1 – K3 K1 – K3 K1 – K3	8	CO1-5

BOOKS FOR STUDY

Dr. Roopa Om Mathur-*Consumer protection* - Vayu Education of India.
Agarwal V.K. *Consumer Protection Law and Practice*, 5th ED, New Delhi. BLH Publishers, Distributors Pvt Ltd 2009

BOOKS FOR REFERENCE

Barowalis JN *Commentary on the consumer Protection Act*, 3rd Ed, Delhi. Universal Law Publishing Co. Pvt Ltd 2008
Dugar SM *Commentary on Consumer Protection Law*, Vol.2. 4th Ed, Nagpur. Wadha and Company 2006
Gambhir Cheena, *Consumer Protection Administration - Organization and Working*, New Delhi. Deep and Deep Publication Pvt Ltd 2007

JOURNALS

Consumer Protection Judgements (CPJ)
Recent Issues of Magazines-Insite
Consumer Voice

WEB RESOURCES

www.ncdr.nic.in
www.trai.gov.in
www.fssai.gov.in

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the Department of Commerce for
B.A. / B.Sc. / B.Com. / B.V.A Degree Programmes

SYLLABUS
(Effective from the academic year 2023 – 2024)

SOCIAL MEDIA MARKETING

CODE: 23CM/GE/SM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To provide students with an insight into the nature and scope of social media marketing
- To expose students to the different forms of social media
- To provide students an outline about content marketing

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the use of social media as a marketing tool	K1
CO2	understand the influence of multiple social media channels in branding. V	K2
CO3	analyze suitable content marketing strategies in the promotion of a product	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Introduction to Social Media- Meaning, Scope, Importance and Relevance of Social Media Marketing 1.2 Benefits and Pitfalls of Social Media Marketing 1.3 Role of Social Media Marketing- Goals and Strategies	K1 – K3 K1 – K3 K1 – K3	8	CO1-3
2	Social Media Channels 2.1 Social Media Platforms- Facebook, Blogs, Microblogging, Twitter, YouTube, Instagram and LinkedIn, Pinterest, Google+, Foursquare, Snapchat and Customer Personas 2.2 Social Book Marking 2.3 Social Listening - an Insight	K1 – K3 K1 – K3 K1 – K3	10	CO1-3
3	Content Marketing 3.1 Meaning and its Importance 3.2 Types of Social Media Content- Interactive Content, Strongly Positive Content, Visual Content and User enenerated Content, e-Books	K1 – K3 K1 – K3	8	CO1-5

BOOKS FOR STUDY

Social Media Marketing: *A Strategic Approach*, 2E. Barker, Barker, Bormann and Neher, 2017 South-Western, Cengage Learning,

David Meerman Scott ,*The New Rules of Marketing & PR*, 5th Edition.

JOURNALS

Journal of Digital and Social Media Marketing Indian

Journal of Marketing

WEB RESOURCES

<http://www.socialmediatoday.com>

www.searchengineland.com

<http://smallbusiness.yahoo.com>

<http://brand24.com>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the Department of Commerce for
B.A. / B.Sc. / B.Com. / B.V.A Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

BANKING PRACTICES

CODE:23CM/GE/BP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To educate the students on the new developments in the banking sector
- To provide the students with an opportunity to understand the significance of banking services
- To acquire knowledge and skills for practical banking operations

COURSE LEARNING OUTCOMES

On successful completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	Outline the banking system in India	K1
CO2	Identify the banking operations offered to a customer	K2
CO3	Comprehend knowledge on e-banking and importance in today's scenario	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 An Overview of Banking System in India – Commercial Bank - Functions and Services 1.2 Types of Bank Accounts-Opening of Bank Accounts 1.3 Forms of Lending-Loans-Types of Loans 1.4 Closing of Bank Accounts – Procedure	 K1 – K3 K1 – K3 K1 – K3 K1 – K3	10	CO1-3
2	Documents used in Banking 2.1 Importance of Documentation 2.2 Application Form for Opening of Accounts - Saving Bank (SB), Fixed Deposit, Current Account and Recurring Deposit, KYC 2.3 Pay In Slip, Withdrawal Slip, Demand Draft Applications, Cheque, Demand Loans, etc. 2.4 Application for Closing of Accounts and Transfer of Funds	 K1 - K3 K1 - K3 K1 - K3 K1 - K3	8	CO1-3
3	E- Banking 3.1 Meaning and Importance of Net Banking. 3.2 Internet Banking, Mobile Banking, Telebanking Banking, Point of Sale Terminal 3.3 Credit Card, Debit Card, Smart Card, NEFT, E-Wallet 3.4 Automated Teller Machine and its Advantages 3.5 Electronic Fund Transfer, Electronic Clearing Services 3.6 Digital Signature	 K1 - K3 K1 - K3 K1 - K3 K1 - K3 K1 - K3 K1 - K3	8	CO1-5

BOOKS FOR STUDY

Gurusamy S. *Banking Theory Law and Practice*. 2nd ed. Chennai: Vijay Nicole, 2015.
 P.N Varshney. *Banking Theory Law and Practice*. 22nd ed. New Delhi: Sultan Chand, 2017

BOOKS FOR REFERENCE

Indian Institute of Banking and Finance, Principles and Practices of Banking, Macmillan Education, 2015.

Gordon E. and K.Natarajan. *Banking Theory Law and Practice*. 19th ed. Mumbai: Himalaya, 2016.

Sundharam K.P.M. and P.N Varshney. *Banking Theory Law and Practice*. 22nd ed. New Delhi: Sultan Chand, 2015.

JOURNALS

Journal of Banking and Finance
 Banking and Financial Services – The Business
 Journals International Journal on Electronic Banking

WEB RESOURCES

www.academia.edu www.lawhandbook.sa.gov

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the Department of Commerce for
B.A. / B.Sc. / B.Com. / B.V.A Degree Programmes

SYLLABUS

(Effective from the academic year 2023 – 2024)

E-FILING OF RETURNS

CODE:23CM/GE/EF22

CREDITS: 2

L T P : 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide the students the conceptual and practical knowledge about electronic filing of returns
- To educate the students on basics of taxation laws
- To enable students to be self-reliant in individual tax calculation

COURSE LEARNING OUTCOMES

On successful completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	ascertain the taxable income of individual	K1
CO2	compute the tax liability of an individual	K2
CO3	comprehend with the taxable provisions and File taxes online (e-filing)	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 An Overview of Computation of Income tax under the Five Heads of Income 1.2 E-Filing – Meaning, Importance and Difference between E-Filing and Regular Filing of Returns 1.3 Benefits and Limitations of E-Filing 1.4 Types of e-Filing - e-File without Digital Signature Certificate. e-File the Income Tax Return (ITR-V) through an e-Return Intermediary (ERI) with or without Digital Signature Certificate (DSC) and Use Digital Signature Certificate (DSC) / EVC	K1-K2 K1-K2 K1-K2 K1-K2	10	CO1-2
2	E-Filing Process 2.1 Registration to E-portal through log in (ADHAR, PAN, TAN, TIN and DIN) 2.2 Recording and uploading of Documents 2.3 E-file ITR 2.4 E-Verify	K1 – K3 K1 - K3 K1 – K3 K1 - K3	5	CO1-4
3	E-Payment of Tax 3.1 Tax Payment through Online Banking 3.2 Procedure to adjust Advance Tax 3.3 Refund - Procedure	K1 - K3 K1 - K3 K1 - K3	11	CO1-3

BOOKS FOR STUDY

Swatantra Sethi, *Self-Preparation and Filing of Income Tax Returns by Individuals* Kindle Edition, 2018

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi, Kalyani Publishers,

BOOKS FOR REFERENCE

Lal B.B., *Income Tax Law and Practice*, , , Konark Publishers Limited, New Delhi

Manoharan T. N. *Income Tax Law*, Mumbai, Snow White Publications

Mehrothra, H.C., *Income Tax Law and Practicum*, , Sahithya Bhavan Publications, Agra

Vinod K., Singhanian, *Taxman's Students Guide to Income Tax*, Taxman's Publications Pvt.Ltd., New Delhi

Vinod K., Singhanian, *Indirect tax*, 2014-15 Taxman's Publications Pvt. Ltd., New Delhi

NOTE: Latest edition of the readings may be used

JOURNALS

Journal of
taxation
National tax
journal

WEB RESOURCES

www.ntanet.org/tax
www.aicpa.org
www.icaew.com

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 25****Duration: 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

NEW AGE MARKETING

CODE: 23CM/UI/NM23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To Gain a deep understanding of how marketing has evolved in the digital age and recognize the fundamental changes that have shaped modern marketing strategies.
- To Acquire the skills to analyze marketing campaigns, evaluate their performance, and make data-driven decisions for optimization and improvement.
- To Learn how to create and implement holistic marketing strategies that integrate multiple digital channels for maximum impact.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	Description	CL
CO1	Recognize the importance of adaptation and innovation in contemporary marketing strategies.	K1,K2
CO2	Assess the role of artificial intelligence (AI) and machine learning (ML) in marketing.	K3
CO3	Measure and evaluate the performance of marketing campaigns and initiatives.	K4
CO4	Present a final marketing campaign project that applies the knowledge and skills acquired throughout the course.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT
1	Introduction to new age marketing 1.1 Evolution of marketing in the digital age 1.2 Importance of adaptation and innovation 1.3 Key Concepts in New Age Marketing Customer-Centric Approach, Data-Driven Decision Making
2	Digital marketing channels 2.1 Content Marketing in the Digital Era, Social Media Marketing and Influencer Marketing 2.2 Search Engine Marketing (SEM) and SEO, Mobile Marketing and App Marketing 2.3 Email Marketing and Marketing Automation, E-commerce and Online Marketplaces
3	Analytics and Insights 3.1 Introduction to Marketing Analytics 3.2 Customer Data and Segmentation, Measuring Campaign Performance 3.3 Data-Driven Decision Making, Ethics and Privacy in Data Usage
4	Emerging Technologies 4.1 Artificial Intelligence (AI) and Machine Learning (ML) in Marketing 4.2 Chatbots and Virtual Assistants, Augmented Reality (AR) and Virtual Reality (VR) 4.3 Voice Search and Smart Devices
5	Marketing Strategy and Future Trends 5.1 Omnichannel Marketing and Integration, Preparing for the Future of Marketing

BOOKS FOR STUDY

Upinder Dhar, Nath VV, Sathish K Nair, Prabath Kumar Yadhav, *New Age Marketing*, Institute of Management, Nirma University of Science and technology, Excel Books 2008

Ryan Deiss and Russ Henneberry, *Digital Marketing for Dummies*,

"Artificial Intelligence in Practice: How 50 Successful Companies Used AI and Machine Learning to Solve Problems" by Bernard Marr

Fedrick G Crane, *Marketing for Entrepreneurs*,

BOOKS FOR REFERENCE

"Building a Story Brand: Clarify Your Message So Customers Will Listen" by Donald Miller

Nir Eyal, *Hooked: How to Build Habit-Forming Products*

PATTERN OF ASSESSMENT

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2 (10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. COM. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023 – 2024)

CONSUMER RIGHTS

CODE: 23CM/UI/CR23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To provide knowledge about consumerism and related laws
- To enable an understanding of the importance of consumer rights
- To educate students on the rights and responsibilities of a consumer

COURSE LEARNING OUTCOMES

On successful completion of this course students will be able to

- Identify the need for consumer protection and the areas covered by consumer protection law
- Learn and evaluate the various forms of consumer exploitation
- Analyse and evaluate the rights of the consumer
- Understand the business malpractices and legislative regulations to protect consumers.

Unit 1

Consumers

- 1.1 Meaning of Consumers-Customers
 - 1.1.1 Consumer Movements – Historical Perspectives
 - 1.1.2 Concept of Consumerism – Need and Importance

Unit 2

Consumer Exploitation

- 2.1 Meaning, Causes of Consumer Exploitation
- 2.2 Forms of Consumer Exploitation – Underweight Measures, High Prices, Substandard Quality, Poor or Inadequate After Sales Services
- 2.3 Challenges of Consumer Exploitation

Unit 3

Consumer Rights and Duties

- 3.1 Consumer Rights – John F Kennedy's Consumer Bill of Rights
- 3.2 Types of Consumer Rights – (Right to Safety, Right to Information (RTI), Right to Redressal, Right to Consumer Education)
- 3.3 Duties of Consumers

Unit 4

Copra Act 1986

- 4.1 Introduction to COPRA Act
- 4.2 Consumer Protection Council – Central, State, Districts Consumer Protection Councils
- 4.3 Consumer Dispute Redressal Procedure

Unit 5

Consumerism in India

- 5.1 Reasons for the Growth of Consumerism in India
- 5.2 Recent Trends in Consumerism
- 5.3 Problems Faced by Consumers in India – Case Studies

BOOKS FOR STUDY

Mohammed Kamalun Nabi, Mohammed Irshadun Nabi, Kishore C. Raut, Consumer Rights & Protection in India, New Century Publications, 2015.

Steven Miles, Consumerism: As a Way of Life, SAGE Publications Ltd, 2012.

BOOKS FOR REFERENCE

Anirban Chakraborty. Law of Consumer Protection Advocacy and Practice. India: Lexis Nexis, 2014.

Miller C.J., Brian W. Harvey, Deborah L Parry. Consumer and Trading Law. Oxford University, 1998.

Rajyalakshmi Rao. Consumer is king!! Know your rights and remedies. Universal, 2012.

Rao, Y.V. Commentary on Consumer Protection Act. Asia House, 2013

JOURNALS

Journal of Consumer Policy

International Journal of Consumerism

Journal of Consumer Affairs

WEB RESOURCES

www.researchgate.net

www.jpsssm.org

www.scim

PATTERN OF ASSESSMENT

End Semester Examination:

Section A – 10 X 2 = 20 Marks

Section B – 5 X 8 = 40 Marks

Section C – 2 X 20 = 40 Marks

Total Marks: 100

Duration: 3 hours



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.Sc. DEGREE
BRANCH I MATHEMATICS
(CHOICE BASED CREDIT SYSTEM)
SHIFT I

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086

DEPARTMENT OF MATHEMATICS

PROGRAMME DESCRIPTION

The B.Sc. Mathematics Degree programme lays equal emphasis on motivating and training students towards higher education in the discipline and employability. While the courses cover a wide spectrum of skills for specific corporate and creative sectors, the logic inbuilt in the courses helps in improved analytical skills. Computational techniques introduced through the courses in the first and second years trains students to solve problems with creative and critical thinking. The theoretical inputs to develop interest in Mathematical Communication.

VISION OF THE DEPARTMENT

- To inculcate in the students logical and analytical thinking, to increase their intellectual curiosity enabling them to become lifelong learners
- To continue to grow in their chosen professions and to function as dynamic citizens
- To establish an international reputation as a centre for excellence in teaching and research of Mathematics

MISSION OF THE DEPARTMENT

- To develop in students logical thinking, analytical reasoning and problem solving skills
- To equip the students with more technical and technological skills and scientific computing techniques based on Mathematical methods to meet the growing demand in the industrial, marketing, communication sectors, etc.
- To offer at all levels a wide array of mathematical approaches in a scientific computing environment to cater to the needs of teaching, research & industrial applications
- To equip them with enhanced employable skills
- To widen their horizon of knowledge with a focus on research

PROGRAMME SPECIFIC OUTCOMES (PSO)

On successful completion of the B.Sc. Mathematics Programme, the students will be able to

PSO1	acquire sound knowledge and understanding in the varied fields of Mathematics and in its allied field of Statistics enabling them to think in a critical manner
PSO2	develop the rational and logical reasoning of students and instill in them a range of generic skills helpful for employment, internships and social activities
PSO3	communicate mathematical ideas, solutions, and proofs clearly and effectively through oral and written presentations
PSO4	impart students with sufficient knowledge and skills enabling them to undertake further studies in Mathematics and its allied areas on multiple disciplines concerned with Mathematics
PSO5	employ their knowledge, problem solving skills and analytical thinking to translate information into mathematical form and to use appropriate mathematical formulae, modeling techniques to process the information and draw relevant conclusions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Sc. Mathematics 2023 - 2024 SHIFT I														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	3	4	3	4	4	5	4	5	3	4	4	5	21	27
Major Core	4	5	4	5	4	5	3	4	4	5	5	6	24	30
									5	5	5	6	10	11
									5	6			5	6
Allied Core	3	3	3	3	5	5	5	5					16	16
	2	3	2	3									4	6
	Offered by PH dept.													
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	112
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1				2				2	0	5
Mentoring				1				1				1	0	3
											Total		4	10
Total	26	30	24	30	26	30	23	30	26	30	24	30	149	180

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23MT/MC/DC14	Differential Calculus	4	4	1	0	3	50	50	100	
23MT/MC/AT13	Algebra and Trigonometry	3	3	1	0	3	50	50	100	
Allied Core offered to students of Physics by Dept. of Mathematics										
23MT/AC/MP15	Mathematics for Physics I	5	5	0	0	3	50	50	100	
Allied Core offered to students of Chemistry by Dept. of Mathematics										
23MT/AC/MC15	Mathematics for Chemistry I	5	5	0	0	3	50	50	100	
23MT/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
23MT/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education									
Allied Core offered to students of Mathematics-Shift I by Dept. of Physics										
23PH/AC/PM13	Physics for Mathematics I	3	3	0	0	3	50	50	100	
23PH/AC/P112	Physics Practical I	2	0	0	3	3	50	50	100	
SEMESTER-II										
23MT/MC/IC23	Integral Calculus	3	3	1	0	3	50	50	100	
23MT/MC/AG24	Analytical Geometry	4	4	1	0	3	50	50	100	
Allied Core offered to students of Physics by Dept. of Mathematics										
23MT/AC/MP25	Mathematics for Physics II	5	5	0	0	3	50	50	100	
Allied Core offered to students of Chemistry by Dept. of Mathematics										
23MT/AC/MC25	Mathematics for Chemistry II	5	5	0	0	3	50	50	100	
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100	
	General Elective I / Basic Tamil I									
Allied Core offered to students of Mathematics-Shift I by Dept. of Physics										
23PH/AC/PM23	Physics for Mathematics II	3	3	0	0	3	50	50	100	
23PH/AC/P222	Physics Practical II	2	0	0	3	3	50	50	100	
SEMESTER-III										
23MT/MC/EG34	Elements of Graph Theory	4	4	1	0	3	50	50	100	
23MT/MC/DE34	Differential Equations	4	4	1	0	3	50	50	100	
23MT/AC/ST35	Mathematical Statistics I	5	5	0	0	3	50	50	100	
23MT/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education									
	General Elective II / Basic Tamil II									

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT I

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-IV										
23MT/MC/SS44	Sequences and Series	4	4	1	0	3	50	50	100	
23MT/MC/DM43	Discrete Mathematics	3	3	1	0	3	50	50	100	
23MT/AC/ST45	Mathematical Statistics II	5	5	0	0	3	50	50	100	
Allied Core offered to students of Commerce (General -Shift I) by Dept. of MT										
23MT/AC/MT45	Mathematics for Commerce	5	5	0	0	3	50	50	100	
	Major Elective I									
SEMESTER-V										
23MT/MC/VA53	Vector Analysis and Applications	3	3	1	0	3	50	50	100	
23MT/MC/AS55	Algebraic Structures	5	5	1	0	3	50	50	100	
23MT/MC/RA55	Principles of Real Analysis	5	5	0	0	3	50	50	100	
23MT/MC/IT54	Integral Transforms	4	4	1	0	3	50	50	100	
	General Elective III									
	SAP / SL									
Interdisciplinary Core Course (MT and CS) to Students of Mathematics										
23ID/IC/MS55	Mathematics through Scientific Software	5	1	0	5	3	50	50	100	
SEMESTER-VI										
23MT/MC/VL64	Vector Spaces and Linear Transformations	4	4	1	0	3	50	50	100	
23MT/MC/CA65	Principles of Complex Analysis	5	5	1	0	3	50	50	100	
23MT/MC/PM65	Principles of Mechanics	5	5	1	0	3	50	50	100	
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100	
	General Elective IV									
	Major Elective II									
Major Electives										
23MT/ME/OR45	Operations Research	5	5	0	0	3	50	50	100	
23MT/ME/PR45	Project	5	1	5	0	-	25	75	100	
23MT/ME/ES45	Elements of Space Science	5	5	0	0	3	50	50	100	
23MT/ME/NM45	Numerical Methods with Programs in C++	5	4	0	2	3	50	50	100	
23MT/ME/CP45	Programming in C++	5	2	0	3	3	50	50	100	
General Electives										
23MT/GE/WM22	The Fascinating World of Mathematics	2	2	0	0	-	50	-	100	
23MT/GE/CW22	Celestial Wonders	2	2	0	0	-	50	-	100	
23MT/GE/AM22	Automata	2	2	0	0	-	50	-	100	
23MT/GE/BM22	Basic Mathematics	2	2	0	0	-	50	-	100	
23MT/GE/RT22	Resource Management Techniques	2	2	0	0	-	50	-	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT I

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
The Department will offer one Social Awareness Course										
Social Awareness Courses										
23MT/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100	
23MT/SA/CR52	Child Rights	2	2	0	0	-	50	-	100	
23MT/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100	
23MT/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100	
23MT/SA/MH52	Mental Health	2	2	0	0	-	50	-	100	
23MT/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100	
23MT/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100	
23MT/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100	
23MT/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100	
Independent Elective										
23MT/UI/CO23	Combinatorics	3	0	0	0	3	-	100	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I – MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

DIFFERENTIAL CALCULUS

CODE: 23MT/MC/DC14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the concepts of differential calculus in depth
- To access the various methods to determine the radius of curvature, evolutes and envelopes of curves
- To discover the extreme values of differentiable functions and comprehend the implications of higher derivatives
- To interpret the concept of derivatives and their applications geometrically
- To analyze the behavior of various curves

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and recall the basic concepts of differential calculus	K1
CO2	interpret various techniques in finding derivatives	K2
CO3	identify appropriate methods to find the solution of problems on differential calculus	K3
CO4	analyze and examine the results of calculus through illustrations with examples.	K4
CO5	evaluate higher order derivatives and determine the properties of well-known curves	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Successive Differentiation 1.1 The nth derivatives of some special functions 1.2 The nth derivatives of rational algebraic functions 1.3 Leibnitz's Theorem for the nth derivative of the product of two functions	K1-K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Curvature 2.1 Formulae for radius of curvature 2.2 A theorem on curvature 2.3 Curvature at the origin 2.4 Chord of curvature through the origin (pole) 2.5 Centre of curvature 2.6 Property of the centre of curvature 2.7 Evolute and Involute 2.8 Properties of the evolute	K1-K5	13	1-5
3	Envelopes 3.1 Definition of envelope 3.2 Envelope of straight lines 3.3 Envelope of the curves 3.4 Envelope of a special family 3.5 Envelope of two-parameter family	K1-K5	14	1-5
4	Extrema of functions of two variables 4.1 Extrema with two variables 4.2 Necessary conditions for maximum and minimum of extrema with two variables 4.3 Determination of maxima and minima of extrema with two variables 4.4 Lagrange's method of undetermined multipliers	K1-K5	13	1-5
5	Characteristics of some special curves 5.1 Cycloid 5.2 Catenary 5.3 Evolutes of parabola and ellipse 5.4 Logarithmic (or Equiangular) spiral 5.5 Spiral of Archimedes 5.6 Witch of Agnesi 5.7 Cardioid 5.8 Limacon 5.9 Lemniscate Singular Points 5.10 Double Points 5.11 Classification of Double Points 5.12 Conditions for existence of double points on an algebraic curve	K1-K5	13	1-5

BOOK FOR STUDY

Das, B.C., and B.N. Mukherjee. *Differential Calculus*. 52nd ed., Kolkata, U.N. Dhur and Sons Pvt. Ltd., 2012.

Chapter 8: 8.1- 8.5, 8.7 and 8.8

Chapter 13: 13.1-13.6

Chapter 15: 15.1 – 15.12

Chapter 17: 17.1-17.9

Chapter 20: 20.2, 20.3, 20.7, 20.13 - 20.18

Chapter 21: 21.1, 21.2, 21.6

BOOKS FOR REFERENCE

Chaubey, G.C., et al. *A Textbook of Advanced Calculus*. New Delhi, Wisdom, 2012.

Courant, R., and Fritz John. *Introduction to Calculus and Analysis - Volume One*. New York, Springer-Verlag, 2000.

Ghosh, R.K., and K.C. Maity. *Differential Calculus*. Kolkata, New Central Book Agency, 2001.

Hildebrand, F.B. *Advanced Calculus for Applications*. London, Prentice-Hall, Inc., 1962.

Mendelson, Elliot. *Calculus. Schaum's Solved Problem Series*. New Delhi, Tata McGraw-Hill Publishing Company Limited, 2004.

Narayanan, S., and Manicavachagam Pillai, T.K. *Calculus Volume-I*. Chennai, Viswanathan S., 2000.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/DC14												
	Course Title: DIFFERENTIAL CALCULUS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ALGEBRA AND TRIGONOMETRY

CODE: 23MT/MC/AT13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To impart knowledge of solving algebraic, transcendental and trigonometric equations
- To gain understanding of the different expansions of circular functions and relation between circular and hyperbolic functions
- To identify diagonalizable matrices, apply Cayley Hamilton theorem in solving higher order matrix equations and to compute inverses
- Use the concepts of trigonometry to solve applications
- Using the various series expansions to compute the sum of infinite series and to find limits

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamental notions of Algebra, Trigonometry and the various series expansions	K1
CO2	interpret the acquired knowledge and use it for expressing algebraic equations, categorizing trigonometric problems and to estimate the roots of the equations	K2
CO3	apply the concepts of equations, series categorization and the relation between trigonometric functions to solve relevant problems	K3
CO4	analyze the types of Eigenvectors and its applications, to estimate the sum of infinite series and to illustrate the occurrence of roots and approximation of limits	K4
CO5	evaluate higher order equations to predict their roots and to experiment on similar matrices for the diagonalization process, validate the trigonometric formulas using suitable examples	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Theory of Equations 1.1 Relations between the Roots and Coefficients of Equations involving Cubic and Higher Order 1.2 Symmetric Function of Roots 1.3 Transformation of Equations 1.4 Increase or Decrease the Roots of a Given Equation by a Given Quantity 1.5 Removal of Terms	K1- K5	11	CO1-5
2	Series Expansions 2.1 Exponential Series 2.2 Logarithmic Series 2.3 Application of Exponential and Logarithmic Series	K1- K5	12	CO1-5
3	Properties of Matrices 3.1 Eigenvalues and Eigenvectors 3.2 Cayley - Hamilton Theorem 3.3 Similar Matrices 3.4 Diagonalization of a Matrix	K1- K5	9	CO1-5
4	Trigonometry - I 4.1 Expansions of $\cos n\theta$, $\sin n\theta$ and $\tan n\theta$ 4.2 Expansions of $\cos^n \theta$ and $\sin^n \theta$ in a Series of Sines and Cosines of Multiples of θ . 4.3 Expansions of $\cos \theta$ and $\sin \theta$ in Powers of θ	K1- K5	10	CO1-5
5	Trigonometry - II 5.1 Euler's Formula for $e^{i\theta}$ 5.2 Hyperbolic Functions 5.3 Relations between Circular and Hyperbolic Functions 5.4 Inverse Hyperbolic Functions in Terms of Logarithmic Functions	K1- K5	10	CO1-5

BOOKS FOR STUDY

Manicavachagam, Pillay T.K., et al. *Algebra–Vol I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Chapter 4 Sections 2, 3, 5-7, 9, 11

Chapter 6 Sections 11,12, 15 (15.1,15.2 only), 17-19

Manicavachagam Pillay T.K., et al. *Algebra–Vol. II*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Chapter 2 Section 16

Narayanan. S, and T.K.Manicavachagam Pillay. *Trigonometry*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2007.

Chapter 3 Section 1-5 (excluding formation of equations)

Chapter 4 Section 1-2.3

BOOKS FOR REFERENCE

Kishan, Hari. *Trigonometry*. New Delhi: Atlantic Printers and Publishers Pvt., Ltd., 2005.

Veerarajan, T. *Trigonometry, Algebra and Calculus*. New Delhi: Tata McGraw Hill Education, 2003.

Venkataraman M.K., and Manorama Sridhar, *Classical Algebra and Trigonometry*. Chennai: Sivasankar, 2001.

Singaravelu, A. *Algebra & Trigonometry – I*, Chennai: A.R. Publications, 2015.

WEB RESOURCES

<http://www.edurite.com/kbase/application-of-matrices-in-real-life>

<http://www.decodedscience.com/practical-uses-matrix-mathematics/40494>

<http://malini-math.blogspot.in/2011/08/applications-of-trigonometry-in-real.html>

<http://www.intmath.com/help/useoftrig.php>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/AT13												
	Course Title: ALGEBRA AND TRIGONOMETRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Sc. (Physics) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR PHYSICS I

CODE: 23MT/AC/MP15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- Using the acquired knowledge on matrices to determine diagonalizable matrices, form similar matrices and use Cayley Hamilton theorem to find inverses
- To impart knowledge in differential and integral calculus for solving Mathematical problems in Physics
- To understand and solve various types of first order differential equations
- To appreciate the concept of Fourier series in expressing some functions as an infinite series
- To introduce the concept of Operations Research for solving Linear Programming Problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall basic mathematical concepts required for students pursuing Physics	K1
CO2	understand basic mathematical tools used for computations	K2
CO3	apply various techniques of calculus, matrices, differential equations, Fourier series and operation research to formulate and solve problems that are applied in physics	K3
CO4	analyze appropriate areas of applying mathematical tools in real life situations	K4
CO5	assess the techniques in Fourier Series, differential equations, calculus, matrices and Linear Programming for solving real life problems	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Properties of Matrices 1.1 Eigenvalues and Eigenvectors 1.2 Cayley-Hamilton Theorem 1.3 Similar Matrices 1.4 Diagonalization of Matrices Possessing Distinct Eigenvalues 1.5 Eigenvalues for Symmetric Matrices	K1- K5	12	CO1-5
2	Differential Calculus 2.1 Higher Derivatives - n th Derivative – Standard Results 2.2 Trigonometric Transformations 2.3 Formation of Equations Involving Derivatives 2.4 Liebnitz's Formula for n th Derivative - Problems involving Liebnitz's Formula Integral Calculus 2.5 Methods of Integration of Functions of the following Types: $\frac{1}{(x+p)\sqrt{ax^2+bx+c}}; \frac{1}{\sqrt{(x-a)(b-x)}}; \frac{1}{\sqrt{(x-a)(b-x)}} \frac{(x-a)}{\sqrt{(b-x)}}$	K1- K5	15	CO1-5
3	Differential Equations 3.1 Partial Differential Equation 3.2 Formation of Equations by Elimination of Constants and an Arbitrary Function 3.3 Definition of General, Particular, Complete and Singular Integral 3.4 Solutions of First Order Equations in their Standard Forms 3.5 Lagrange's Method of Solving of Linear Equations $Pp + Qq = R$	K1- K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
4	Fourier Series 4.1 Definition of Fourier Series 4.2 Finding Fourier Coefficients for a given Periodic Function with Period 2π 4.3 Odd and Even Functions 4.4 Half - Range Series 4.5 Development in sine and cosine series	K1- K5	12	CO1-5
5	Linear Programming Problem 5.1 Formulation of LPP 5.2 Graphical Method 5.3 Simplex Method	K1- K5	13	CO1-5

BOOKS FOR STUDY

Narayanan, S., et al. *Ancillary Mathematics –Volume–I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2012.

Chapter 3: Sections 3.4, 3.5

Chapter 6: Sections 6.1

Narayanan, S., et al. *Ancillary Mathematics – Volume–II*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 1995 Reprint 2011.

Chapter 1 : Sections 8 (cases 5 & 8)

Chapter 2 : Sections 1 - 5

Chapter 6 : Sections 1-3, 5, 6

Kalavathy, S. *Operations Research*. Noida, Vikas Publishing House, Fourth Edition 2013.

Chapter 2 : Sections 2.1, 2.2

Chapter 3 : Sections 3.1 – 3.3

Chapter 4 : Sections 4.1, 4.2

BOOKS FOR REFERENCE

Joseph, Edwards. *An Elementary Treatise on the Differential Calculus*, London: Macmillan, 1948.

Manicavachagam Pillai, T.K., et al. *Algebra Volume I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Manicavachagam Pillai, T.K., et al. *Algebra Volume II*. Madras.: S. Viswanathan Printers and Publishers Pvt., Ltd., 2004.

Singaravelu, A. *Allied Mathematics*. Chennai: Meenakshi Agency, 2010

Sundaresan, V. et al. *Resource Management Techniques*. 4th ed. Arapakkam: A.R. Publications, 2007.

Swarup, Kanti, et al. *Operations Research*. New Delhi: Sultan Chand and sons, 2009.

WEB RESOURCES

http://sydney.edu.au/stuserv/documents/maths_learning_centre/differentialcalculus.pdf

<http://www.mathsisfun.com/calculus/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/AC/MP15												
	Course Title: MATHEMATICS FOR PHYSICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 2	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	2
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course Offered by the Department of Mathematics for
B.Sc. (Chemistry) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR CHEMISTRY I

CODE: 23MT/AC/MC15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the genesis of the basic mathematical concepts and tools required
- To apply the concepts of matrices and theory of equations in solving problems related to chemistry
- To understand the various concepts of differentiation and integration
- To familiarize with a few types of partial differential equations and solve them
- To introduce the concept of finite differences

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamental concepts of matrices, algebra, calculus, partial differential equations and finite difference methods	K1
CO2	understand different techniques in obtaining approximate solutions to complex mathematical problems, solving algebraic problems and to employ the various techniques in finding derivatives and integration	K2
CO3	solve the results of calculus through illustrations, equations, and to utilize several methods in interpolation, differentiation and integration	K3
CO4	analyse solutions that are obtained by using techniques of calculus, algebra and finite differences and to classify partial differential equations and obtain their solutions systematically	K4
CO5	evaluate the eigen vectors, integrals and to predict appropriate methods to find the solution of problems on differential and interpret results using appropriate numerical techniques	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Properties of Matrices 1.1 Eigenvalues and Eigenvector 1.2 Cayley Hamilton Theorem (statement only) 1.3 Diagonalization of Matrices possessing Distinct Eigenvalues 1.4 Eigenvalues for symmetric matrices	K1- K5	12	CO1-5
2	Theory of Equations 2.1 Relation Between Roots and Coefficients 2.2 Solution of Equations under given Conditions On Roots 2.3 Transformation of Equations 2.4 Reciprocal Equations	K1- K5	13	CO1-5
3	Differential Calculus 3.1 Differentiation of Hyperbolic and Inverse Hyperbolic Functions 3.2 Higher Derivatives - n^{th} derivative – Standard Results 3.3 n^{th} derivative of algebraic and rational functions of the form $\frac{f(x)}{\phi(x)}$ 3.4 Trigonometric Transformations Integral Calculus 3.5 Methods of Integration of functions of the Following Types: $\frac{1}{(x+p)\sqrt{ax^2+bx+c}}; \sqrt{(x-a)(b-x)};$ $\frac{1}{\sqrt{(x-a)(b-x)}}; \sqrt{\frac{(x-a)}{(b-x)}}$	K1- K5	14	CO1-5

UNIT	CONTENT	CL	Hrs	CO
4	Partial Differential Equations 4.1 Formation of Equations by Elimination of Constants and an Arbitrary Function (Problems only) 4.2 Definition of General, Particular, Complete and Singular Integral 4.3 Solutions of First Order Equations in their Standard Forms 4.4 Lagrange's Method of Solving of Linear Equations $Pp + Qq = R$	K1- K5	13	CO1-5
5	Finite Difference Methods 5.1 Finite Differences 5.2 Forward Difference Table 5.3 Interpolation Methods 5.4 Newton's Forward Formula 5.5 Newton's Backward Formula 5.6 Binomial Method 5.7 Lagrange's Formula	K1- K5	13	CO1-5

BOOKS FOR STUDY

Narayanan, S. and T.K. Manicavachagam Pillai. *Calculus Volume-I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2017.

Chapter 2: Sections 3.11-3.14

Chapter 3: Sections 1.1 – 1.5

Narayanan, S, et al. *Ancillary Mathematics Volume - I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2013.

Chapter 2: Sections 2.2 -2.4

Chapter 3: Sections 3.4, 3.5

Chapter 4: Sections 4, 4.1 - 4.3

Narayanan S., et al. *Ancillary Mathematics Volume – II*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2011.

Integral Calculus- Chapter 1: Sections 8 (cases 5 & 8)

Differential Equations – Chapter 6: Sections 1-3, 5, 6

BOOKS FOR REFERENCE

Das, B.C., and B.N. Mukherjee. *Differential Calculus*. 52nd ed., Kolkata: U.N. Dhur and Sons Pvt. Ltd., 2012.

Manicavachagam Pillai, T.K., et al. *Algebra Volume I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Manicavachagam Pillai, T.K., et al. *Algebra Volume II*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2004.

Singaravelu, A. *Allied Mathematics*. Chennai: Meenakshi Agency, 2010.

Arumugam, S., et al. *Numerical Methods*. Scitech Publications Pvt. Ltd., 2008.

Singaravelu, A., and Ramaa R. *Calculus of Finite Differences & Numerical Analysis (Allied Paper I)*. Chennai: Meenakshi Agency, 2003.

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MC15												
	Course Title: MATHEMATICS FOR CHEMISTRY I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	2	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	2	3	2
CO 4	3	3	3	3	3	3	1	1	2	2	2	2	2
CO 5	3	3	3	3	3	3	1	1	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE : 23MT/GC/ES12

CREDITS :2

L T P : 2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies; Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-energy resources: renewable and non-renewable sources, impact of over-exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and *ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects and control measures -Impact of over-population on pollution and health – carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations Sustainable Development Goals of the 2030 Agenda
- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster

2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences

2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 25 Duration: 60 minutes

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: Total Marks: 25

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23MT/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1

(13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2

(13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group discussions
- Group presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI -600086

Allied Core Offered to students of Mathematics by Department of Physics

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS FOR MATHEMATICS I

CODE: 23PH/AC/PM13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To impart fundamental knowledge in the concepts and laws of physics.
- To train the students in visualizing the Physics behind the characteristics of solids and liquids at different conditions.
- To inculcate practical knowledge related to the dynamic theories evolved in mechanics, viscosity and theory of relativity.
- To engage the students in cultivating physics-based problem-solving abilities in different scientific scenarios
- To encourage the students to apply acquired theoretical knowledge to solve realistic problems

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	acquire knowledge on elasticity, bending of beams and theories of surface tension and viscosity of liquids, mechanics, and the basic concepts of relativity.	K1
CO2	describe the elastic behaviour of solids, the physical properties of liquids that impact fluid motion, and explain the concepts of mechanics and relativity.	K2
CO3	apply the mathematical tools to solve simple and complex problems in physics	K3
CO 4	examine the behaviour of rigid bodies and liquids utilizing theoretical concepts.	K4
CO 5	formulate the knowledge gained in theory for real life and practical applications.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNITS	COURSE DETAILS	CL	Hrs	CO
1	Mechanics I 1.1 Impulse-Impact-Conservation of linear momentum: Internal forces and momentum conservation – center of mass- examples- General elastic collision of particles of different masses. 1.2 Significance of conservation laws- law of conservation of Energy- concepts of work- power – energy – potential energy.	K1-K5	6	1-5

UNITS	COURSE DETAILS	CL	Hrs	CO
2	Mechanics II 2.1 Simple Harmonic Motion: Periodic and Harmonic Motion- Formula for acceleration, velocity and displacement - Energy of a Harmonic Oscillator- oscillation in spring mass-springs in series and parallel. 2.2 Classical mechanics: Degrees of freedom and constraints - Generalized Coordinates - principle of virtual work - De Alembert's principle -Explanation of Lagrangian equation (No derivation) Application of Lagrangian equation in Atwood's machine and Simple pendulum.	K1-K5	7	1-5
3	Elasticity 3.1 Elastic properties: Hooke's law - Elastic limit moduli of Elasticity Poisson's ratio 3.2 Expression for Bending Moment - Depression at the loaded end of the cantilever – depression and elevation at the midpoint of a loaded beam (non-uniform and uniform bending) – Torsion in a wire – Torque per unit twist – torsional oscillations – Expression for period	K1-K5	6	1-5
4	Viscosity and Surface Tension 4.1 Viscosity: Coefficient of viscosity - Stream Line Flow and Turbulent Flow – Critical Velocity – Euler's Equation for unidirectional flow 4.2 Surface Tension: molecular theory of surface tension - Determination of Surface Tension by Drop Weight Method- Interfacial Surface Tension	K1-K5	7	1-5
5	Relativity 5.1 Inertial Frames of Reference – Newtonian Relativity – Galilean Transformation Equations 5.2 Postulates of Special Theory of Relativity- Lorentz Transformation Equations- Length Contraction - Time Dilation - Twin Paradox and Meson Paradox 5.3 Relativistic Momentum (no derivation) – Mass Energy Relation- Physical Significance.	K1-K5	13	1-5

BOOKS FOR STUDY

Murugeshan R. *Properties of Matter and Acoustics*. New Delhi: S Chand, 2018.
 Narayanamurthi M. & N Nagarathnam. *Dynamics*. Chennai: The National, 1996.
 Resnick, Robert. *Introduction to Special Relativity*. New Delhi: Wiley Eastern, 2021.

BOOKS FOR REFERENCE

Goldstein Herbert. Second Edition. *Classical Mechanics*. U.S.A: Addison & Wesley, 2002.
 Halliday, David and Robert, Resnick. *Physics Vol.I*. Chennai: New Age, 2021.
 Halliday, David Robert Resnick and Walker Jearl. *Fundamentals of Physics*. Kundhi: John Wiley, USA, 2021.

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 1 hour 30 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PM13												
I	Course Title: PHYSICS FOR MATHEMATICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	1	2	2	1	2	3	2	2	1
CO 2	3	3	3	3	3	2	2	1	3	3	3	2	2
CO 3	3	2	2	2	3	2	2	1	2	3	2	3	3
CO 4	3	3	3	2	3	2	1	2	2	2	3	2	2
CO 5	3	3	2	2	3	1	1	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

Allied Core Offered to students of Mathematics by Department of Physics

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL I

CODE: 23PH/AC/P112

CREDITS : 2

L T P : 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

Experiments	CL	Hrs	CO
1. Determination of 'g'- Compound Pendulum. 2. Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope 3. Young's Modulus 'E' by Uniform Bending- Scale and Telescope 4. Rigidity Modulus 'G' - Torsional pendulum 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7. Verification of Series and Parallel connections of resistance and Determination of Specific Resistance - Post Office Box 8. Characteristics of a Zener Diode 9. Verification of Newton's Law of Cooling for two liquids	K1-K5	39	1-5

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan, V., & Balakrishnan, R. *A Text Book of Practical Physics. Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test: Total Marks: 50

Duration: 3 hours

CRITERION	Knowledge Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:**Total Marks: 50****Duration: 3 hours**

CRITERION	Knowledge Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P112												
I	Course Title: PHYSICS PRACTICAL I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

INTEGRAL CALCULUS

CODE: 23MT/MC/IC23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To evaluate integration of irrational functions and improper integrals
- To extend the idea of definite integral to double and triple integrals of functions of two or three variables
- Apply multiple integrals to compute volume and surface area of general regions
- To apply the change of variable technique in both double and triple integrals to simplify the integration process and solve practical problems
- To study the Beta and Gamma integrals and the relationship between them

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and reproduce various integration techniques	K1
CO2	understand the concept of multiple and improper integrals	K2
CO3	employ various techniques in evaluating multiple integrals	K3
CO4	analyse and explain the results of multiple integral through illustrations with examples	K4
CO5	predict appropriate methods to find the solution of problems on integral calculus	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Methods of Integration 1.1 Integration of Irrational Functions of the Type: $\frac{1}{(x-k)\sqrt{ax^2+bx+c}}$, $\frac{1}{(Ax^2+B)\sqrt{Cx^2+D}}$, $\frac{1}{(ax^2+bx+c)\sqrt{Ax^2+Bx+C}}$, $\sqrt{(x-\alpha)(\beta-x)}$, $\frac{1}{\sqrt{(x-\alpha)(\beta-x)}}$, $\sqrt{\frac{x-\alpha}{\beta-x}}$	K1-K5	11	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	1.2 Integration of functions of type: $\frac{1}{a+b \cos x}$, $\frac{1}{\sqrt{a^2 \cos^2 x + b^2 \sin^2 x}}$			
2	Improper Integrals 2.1 Infinite Integrals 2.2 Discontinuous Integrands 2.3 Comparison Test	K1-K5	9	CO1-5
3	Double Integrals 3.1 Iterated Integrals 3.2 Double Integrals over General Regions 3.3 Double Integrals in Polar Coordinates 3.4 Surface Area using Double Integrals	K1-K5	11	CO1-5
4	Triple Integrals 4.1 Triple Integrals 4.2 Applications of Triple Integrals 4.3 Change of Variable in Double and Triple Integral	K1-K5	11	CO1-5
5	Beta and Gamma Integrals 5.1 Definitions of Beta and Gamma Integrals 5.2 Recurrence Formula for Gamma Functions 5.3 Properties of Beta Functions 5.4 Relation between Beta and Gamma Functions	K1-K5	10	CO1-5

BOOK FOR STUDY

Stewart, James. *Calculus – Concepts and Contexts*. Second Edition. United States: Brooks Cole Thomson Learning Pvt., 2001.

Chapter 5 Section 5.10

Chapter 12 Section 12.2 – 12.4, 12.6, 12.7, 12.9

S, Narayanan and T.K. Manicavachagam Pillay. *Calculus - Vol II*. Chennai: S. Viswanathan, 2012.

Chapter 1 Sec. 8 (cases $v - x$), 9, 10

Chapter 7 Sec. 2.1, 2.3, 3 and 4

BOOKS FOR REFERENCE

Jeffrey, Alan. *Handbook of Mathematical formulas and Integrals*. United States: Academic, Third Edition 2005.

Khalil, Ahmad, et al. *Textbook of Integral Calculus and Differential Equations*. New Delhi: Anamaya Publishing, 2005.

Singh, U.P., et al. *Integral Calculus*. New Delhi: Wisdom Press, 2011.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/MC/IC23												
	Course Title: INTEGRAL CALCULUS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ANALYTICAL GEOMETRY

CODE: 23MT/MC/AG24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the concepts of two-dimensional and three-dimensional coordinate geometry in depth
- To recognize the type of conic sections and understand its properties
- To study the conjugate diameters and properties of ellipse and hyperbola
- To describe the various forms of equations of a plane, straight lines, sphere and cone
- To solve problems related to geometry of two dimensions and three dimensions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the nature of a given general second degree equation and define the basics of plane, straight line, sphere and cone in 3D	K1
CO2	understand the different types of conics in 2D and 3D	K2
CO3	apply the formula for finding the centre, lengths and axes of a central conic and find the properties of ellipse and hyperbola as well as to describe the various forms of plane, straight line, sphere and cone	K3
CO4	analyse the different parameters of conics in 2D & 3D	K4
CO5	evaluate the problems related to the geometry of two-dimension and three-dimensions	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	General Second Degree Equation 1.1 Condition for a General Second Degree Equation to Represent a Conic 1.2 Centre of the Conic given by the General Second Degree Equation (Concept Only) 1.3 Lengths And Positions of the Axes of the Central Conic $Ax^2 + 2hxy + By^2 = 1$ (Concept Only)	K1- K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Ellipse 2.1 Conjugate Diameters of Ellipse 2.2 Properties of Conjugate Diameters of Ellipse Hyperbola 2.3 The Asymptotes 2.4 Angle Between the Asymptotes 2.5 Properties of the Asymptotes 2.6 The Conjugate Hyperbola 2.7 Conjugate Diameters of Hyperbola 2.8 Properties of Conjugate Diameters of Hyperbola 2.9 Rectangular Hyperbola	K1- K5	13	CO1-5
3	Plane 3.1 General Equation 3.2 Intercept Form 3.3 Normal Form 3.4 Angle Between Two Planes 3.5 Equation of Plane through the Line of Intersection of Two Given Planes 3.6 Length of Perpendicular from a given Point to a Plane	K1- K5	13	CO1-5
4	Straight Line 4.1 Symmetrical Form 4.2 Line Through Two Points 4.3 Reduction of the Unsymmetrical Form to the Symmetrical Form 4.4 Condition for a Line to Lie on a Plane 4.5 Plane through a Given Line 4.6 Condition for Two Lines to be Coplanar 4.7 Equation of the Plane Containing the Two Lines 4.8 Shortest Distance Between Two Skew Lines and Equation of the Line Containing the Shortest Distance	K1- K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
5	Sphere And Cone 5.1 Equation of a Sphere with Given Centre and Radius 5.2 General Form of the Equation of a Sphere 5.3 Plane Section of a Sphere 5.4 Intersection of two Spheres 5.5 Equation of a Circle on a Sphere 5.6 Equation of Sphere Passing through Given Circle 5.7 Tangent Plane to a Sphere 5.8 Right Circular Cone; Necessary Condition for a General Equation of Second Degree to Represent a Cone 5.9 Equation of a Cone with Given Vertex, Axis and Semi-Vertical Angle	K1- K5	14	CO1-5

BOOKS FOR STUDY

Pillay, Manicavachagam T. K, and Natarajan T. *A Text book of Analytical Geometry Part I - Two dimensions*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., Reprint 2013.

Chapter 7 Sections 16.1–16.3

Chapter 8 Sections 4 – 10

Chapter 10 Sections 3 – 6

Pillay, Manicavachagam T. K, and Natarajan T. *A Text Book of Analytical Geometry - Part II (Three Dimensions)*. Chennai: Ananda Book Depot, Reprint 2022.

Chapter 2 Sections 1 – 10

Chapter 3 Sections 1 – 8

Chapter 4 Sections 1 – 8

Chapter 5 Sections 2.1

BOOKS FOR REFERENCE

Arup Mukherjee. *Analytical Geometry of two and three Dimensions*. Kolkata: Arunabha Sen Books and Allied Pvt., Ltd., 2010

Krishnan, Hari. *Coordinate Geometry of Two Dimensions*. New Delhi: Atlantic Press, 2006.

Narayan, et al. *Analytical Solid Geometry*, New Delhi: S Chand and Co., Pvt. Ltd., 2016.

Singh, Shalini. *Two Dimensional Geometry*. New Delhi: Sarup and Sons, 2000.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/MC/AG24												
	Course Title: ANALYTICAL GEOMETRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Sc. (Physics) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR PHYSICS II

CODE: 23MT/AC/MP25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide basic mathematical concepts required for students pursuing Physics
- To introduce problem solving skills using numerical methods
- To interpret the concept of derivatives and their applications geometrically
- To utilize Laplace transformations for solving differential equations
- To teach statistical tools using correlation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall basic mathematical concepts required for students pursuing Physics	K1
CO2	understand the concept of Laplace, improper integrals, numerical methods and statistics	K2
CO3	apply appropriate mathematical methods and techniques in solving problems	K3
CO4	analyze the applications of calculus, transforms, finite differences and correlation parameters	K4
CO5	evaluate the solution of improper integrals, differential equations using Laplace transforms, finite differences and correlation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Laplace Transform 1.1 Definition of Laplace Transform 1.2 Transforms of $f'(t)$ & $f''(t)$ 1.3 Transformation of Function e^{-at} , $\cos at$, $\sin at$ and t^n , where 'n' is a Positive Integer 1.4 First Shifting Theorem: Laplace Transforms of $e^{-at}\cos bt$, $e^{-at}\sin bt$ and $e^{-at}t^n$	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Inverse Laplace Transform 2.1 Inverse Laplace Transforms of Functions relating to $e^{-at} \cos bt$, $e^{-at} \sin bt$ and $e^{-at} t^n$ 2.2 Applications to Solutions of Ordinary Differential Equations with Constant Coefficients	K1-K5	13	CO1-5
3	Beta, Gamma Integrals 3.1 Definitions of Beta and Gamma Integrals 3.2 Recurrence Formula for Gamma Functions 3.3 Properties of Beta Functions 3.4 Relation between Beta and Gamma Functions	K1-K5	13	CO1-5
4	Finite Difference Methods 4.1 Finite Differences 4.2 Forward Difference Table 4.3 Interpolation Methods 4.4 Newton's Forward Formula 4.5 Newton's Backward Formula 4.6 Binomial Method 4.7 Lagrange's Formula	K1-K5	13	CO1-5
5	Statistics 5.1 Correlation 5.2 Scatter Diagram and its Uses 5.3 Karl Pearson's Coefficient of Correlation 5.4 Probable Error of Correlation Coefficient 5.5 Spearman's Rank Correlation Coefficient 5.6 Merits and Demerits of Rank Correlation Coefficient	K1-K5	14	CO1-5

BOOKS FOR STUDY

S, Narayanan and Manicavachagam Pillay T.K. *Calculus - Vol II*. Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 2012.

Chapter 7 Sections 2.1, 2.3, 3 – 5

S, Narayanan, et al. *Ancillary Mathematics – Volume – I*. Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 1995 Reprint 2011.

Chapter 4 Sections 4, 4.1 - 4.3

S, Narayanan, et al. *Ancillary Mathematics – Volume – II*. Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 1995 Reprint 2011.

Chapter 7 Sections 1 – 6

R. S. N, Pillai and Bagavathi V. *Statistics: Theory and Practice*, S. Chand & company Ltd, New Delhi, 2012.

Chapter 12 Page No: 396-410, 413-420

BOOKS FOR REFERENCE

B.D, Gupta. *Numerical Analysis*. New Delhi, Konark Publishers Pvt. Ltd., 1999.

S. C, Gupta and Kapoor V. K. *Fundamentals of Mathematical Statistics*, New Delhi, Sultan Chand and Sons, 2007 Reprint 2014.

Jeffrey Alan. *Handbook of Mathematical formulas and Integrals*, United States, Academic Press, 2004.

S, Narayanan and Manicavachagam Pillay T.K. *Calculus-Volume I*, Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 1997.

V.N, Vedamurthy and Iyengar N. Ch. S. N. *Numerical Methods*. Noida, Vikas Publishing House, 1998.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MP25												
	Course Title: MATHEMATICS FOR PHYSICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 2	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	2
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Sc. (Chemistry) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR CHEMISTRY II

CODE: 23MT/AC/MC25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart knowledge in Laplace, Fourier series, Statistics for solving mathematical problems in chemistry
- To realize the application of Laplace transform to solve Differential Equations
- To appreciate the expansion of periodic functions as a Fourier series
- To teach statistical tools using correlation and regression
- To introduce the concept of group theory

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall basic mathematical concepts required for students pursuing Chemistry	K1
CO2	understand mathematical tools like Laplace transforms, Inverse Laplace transforms, Fourier series, Statistics to compute simple problems	K2
CO3	apply various techniques like Laplace transforms, inverse Laplace transforms, Fourier series, Statistics and Group theory to real life situations applicable in Chemistry	K3
CO4	analyse to use the appropriate tools in Chemistry	K4
CO5	evaluate the techniques learnt and to solve problems in real life situation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Laplace Transform 1.1 Definition of Laplace transform 1.2 Transforms of $f'(t)$ & $f''(t)$ 1.3 Transformation of Function e^{-at} , $\cos at$, $\sin at$ and t^n , where 'n' is a Positive Integer 1.4 First Shifting Theorem: Laplace Transforms of $e^{-at}\cos bt$, $e^{-at}\sin bt$ and $e^{-at}t^n$	K1- K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Inverse Laplace Transform 2.1 Inverse Laplace Transforms of Functions relating to $e^{-at} \cos bt$, $e^{-at} \sin bt$ and $e^{-at} t^n$. 2.2 Applications to Solutions of Ordinary Differential Equations with Constant Coefficients	K1- K5	12	CO1-5
3	Fourier Series 3.1 Fourier Series: Definition 3.2 Finding Fourier Coefficients for a given Periodic Function with Period 2π 3.3 Odd and Even Functions 3.4 Half-range Fourier Series-Development in Cosine Series, Development in Sine Series	K1- K5	13	CO1-5
4	Statistics 4.1 Correlation 4.2 Scatter Diagram and its Uses 4.3 Karl Pearson's Coefficient of Correlation 4.4 Regression 4.5 Definition and Uses 4.6 Difference between Regression and Correlation 4.7 Graphic Method 4.8 Regression Equations: Regression Equation of Y on X and X on Y	K1- K5	13	CO1-5
5	Group Theory 5.1 Groups–Definitions and Examples 5.2 Properties of a Group 5.3 Order of an Element 5.4 Subgroups 5.5 Permutation Groups 5.6 Cyclic Groups	K1- K5	15	CO1-5

BOOKS FOR STUDY

R S N, Pillai, and V Bagavathi. *Statistics*. New Delhi, S. Chand & Company Pvt., Ltd, Reprint 2013.

Chapter 12 page nos. 396 – 410.

Chapter 13 page nos. 465 – 472(omit algebraic method & regression equation in a bivariate grouped frequency distribution)

S, Narayanan, et al. *Ancillary Mathematics* Volume II. Chennai, S. Viswanathan Printers & Publishers, Reprint 2011.

Chapter 2 Sections 1 - 5

Chapter 7 Sections 1 - 6

Venkatachalapathy, S G. *Modern Algebra*. Chennai, Margham Publications (India) Pvt. Ltd. Second Edition 2004, Reprint 2016.

Chapter 2 page nos. 2.1 – 2.34

Chapter 3 page nos. 3.1 – 3.18

Chapter 4 page nos. 4.1 – 4.11

(Chapter 2, 3 and 4: Theorems and proofs are omitted, Definitions, examples & Simple solved problems only)

BOOKS FOR REFERENCE

Arora, P N. *Topics in Algebra*. New Delhi, Sultan Chand and Sons, Ninth Revised Edition 2005.

S, Narayanan, and T K Manicavachagom Pillay. *Calculus - Volume III*. Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Santiago, M L. *Modern Algebra*. New Delhi, Tata McGraw-Hill Education, 2001.

S. C, Gupta and Kapoor V. K. *Fundamentals of Mathematical Statistics*, New Delhi, Sultan Chand & Sons, 2007 Reprint 2014.

Vital, P R. *Mathematical Statistics*. Chennai, Margham Publications Pvt., Ltd., 2002.

WEB RESOURCES

[https://in.video.search.yahoo.com/search/video?fr=mcafee&ei=UTF-](https://in.video.search.yahoo.com/search/video?fr=mcafee&ei=UTF-8&p=applications+of+laplace+transform+in+chemistry&type=E210IN1316G0#id=7&vid=da5d5a32803e2894267c41211fbde1d&action=click)

[8&p=applications+of+laplace+transform+in+chemistry&type=E210IN1316G0#id=7&vid=da5d5a32803e2894267c41211fbde1d&action=click](https://in.video.search.yahoo.com/search/video?fr=mcafee&ei=UTF-8&p=applications+of+laplace+transform+in+chemistry&type=E210IN1316G0#id=7&vid=da5d5a32803e2894267c41211fbde1d&action=click)

[https://occamy.chemistry.jhu.edu/courses/AS.0](https://occamy.chemistry.jhu.edu/courses/AS.030.456/spring_2021/index.php)

[30.456/spring_2021/index.php](https://occamy.chemistry.jhu.edu/courses/AS.030.456/spring_2021/index.php)

<https://www.irjet.net/archives/V5/i12/IRJET-V5I12211.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MC25												
	Course Title: MATHEMATICS FOR CHEMISTRY II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 2	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	2	2
CO 4	3	3	3	3	3	3	1	1	2	2	2	2	2
CO 5	3	3	3	3	3	3	1	1	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A./ B.S.W. / B.V.A./B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:

Continuous Assessment:

Two Classroom Tasks

Total Marks:50

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

Allied Core Offered by the Department of Physics to Students of Mathematics

SYLLABUS

(Effective from the academic year 2023 - 2024)

PHYSICS FOR MATHEMATICS II

CODE:23PH/AC/PM23

CREDITS:3

L T P: 3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To deepen understanding on the fundamental laws and principles in physics.
- To equip students to study the theoretical concepts based on charges, geometrical and physical optics and the characteristics of Operational Amplifier.
- To elucidate the students with the concepts of electricity, magnetism, optics and electronics in realistic situations.
- To guide students to deduce expressions for various theories pertaining to physics using mathematical concepts.
- To allow students to examine concepts to resolve problems across multiple scientific contexts.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	understand the fundamental principles of electricity, magnetism, optics and electronics.	K1
CO 2	describe the theory of charges in electric and magnetic field, optical aberrations, interference, diffraction, polarization and also the theory behind working of digital circuits.	K2
CO 3	illustrate the behavior of charges using Gauss's Law and Maxwell's electromagnetic equations, importance of different types of telescopes, significance of physical properties in optics and Boolean algebra.	K3
CO 4	analyze the gained knowledge to derive expression for electric field, electric potential, force on a current carrying conductor in a magnetic field, aberrations, determination of wavelength and De Morgan's Theorem.	K4
CO 5	evaluate problems in physics and in realistic situations utilizing theoretical concepts.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Electricity 1.1 Introduction – Coloumb’s law, electric flux, Gauss's law and proof – Differential form of Gauss's law - Applications of Gauss theorem- Infinite line of charge, uniformly charged solid sphere - Field due to a uniformly charged hollow cylinder. 1.2 Electric potential - Electric potential as a line integral of electric field, potential due to a point charge – Relation between electric field and electric potential – Work done in moving a charge (earthed inside and outside) – Capacitance - Capacitance of spherical capacitor.	K1 – K5	6	1-5
2	Magnetism 2.1 Magnetic induction – Force on a Charge in a Magnetic Field, in an electromagnetic Field (Lorentz Force) – Biot-Savart law – Ampere’s circuital law - Maxwell’s electromagnetic Equations (No derivation) – Physical significance of the equations. 2.2 Electromagnetism: Force on a current carrying conductor in a magnetic field – Torque on a current loop in a uniform magnetic field – Moving coil Ballistic Galvanometer – Theory, current and charge sensitivity of B.G.	K1 – K5	7	1-5
3	Geometrical Optics 3.1 Lens Aberrations: Monochromatic aberrations – Spherical aberration in lenses – Methods of minimizing spherical aberration- Coma, Astigmatism, distortion- Chromatic aberration – achromatic combination of lenses in contact and lenses separated by a distance. 3.2 Optical Instruments: Telescopes – Angular magnification of telescopes - Refractive astronomical telescope – Terrestrial telescope – Reflecting telescopes – Radio telescope – Hubble telescope.	K1 – K5	6	1-5
4	Physical Optics 4.1 Interference: Thin films - Plane parallel film – Interference due to reflected and transmitted light – Newton’s rings – Measurement of wavelength. 4.2 Diffraction: Theory of plane transmission grating - Normal incidence – Determination of wavelength - Polarization – Double refraction – Nicol prism – Optical activity – Uses of polaroids.	K1 – K5	7	1-5
5	Electronics 5.1 Introduction to amplifiers - Operational amplifier – Ideal Op-Amp - CMRR –Inverting and non-inverting Op-Amp - Summing, difference, integral and differential Op-Amp. 5.2 Boolean algebra- De Morgan’s Theorem – Verification - Algebraic simplification – Implementation of Boolean algebra into circuits - Karnaugh map up to four variables.	K1 – K5	13	1-5

BOOKS FOR STUDY

R. Murugeshan, *Electricity and Magnetism*, S. Chand and Co. Pvt. Ltd, New Delhi, India, 2017.
Murugeshan. R. *Modern Physics*, S. Chand and Co. Pvt. Ltd, New Delhi, India, 2013.
Subrahmanyam, N. and Lal Brij, *Textbook of Optics*, S. Chand, Limited, New Delhi, India, 1995.
Mehta, V.K. *Principles of Electronics*, S. Chand and Co, Pvt. Ltd, New Delhi, India, 2014.

BOOKS FOR REFERENCE

Haliday, David and Robert Resnick. *Physics Vol. II*. New Age: Chennai, India 1995.
Kakani, S L, and Bhandari K C. *A Text Book of Optics*, Sultan Chand, New Delhi, India, 2002.
Laud. B.B., *Lasers and Non – Linear Optic*, Wiley Eastern: New Delhi, India, 1991.
R. Murugeshan Kiruthiga Sivaprasath, *Optics and Spectroscopy*, S. Chand and Co, Pvt. Ltd. 7th revised edition, New Delhi, India, 2010.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 × 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PM23												
II	Course Title: PHYSICS FOR MATHEMATICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	3	2	1	3	3	2	3	3
CO 2	3	3	3	3	3	3	2	1	3	3	3	2	2
CO 3	3	2	3	2	3	3	2	1	2	3	2	3	3
CO 4	3	3	3	3	3	3	2	1	2	2	3	3	3
CO 5	3	3	2	3	3	3	3	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

Allied Core Offered by the Department of Physics to Students of Mathematics

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL II

CODE:23PH/AC/P222

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data.	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

S.No.	EXPERIMENTS	CL	Hrs	CO
1.	Rigidity Modulus 'G' by Static Torsion	K1-K5	39	1-5
2.	Determination of Radius of Curvature of a Lens - Newton's Rings			
3.	Grating – Normal Incidence - Determination of Wavelengths (λ) of Prominent lines of mercury spectrum - Spectrometer			
4.	Determination of Specific Heat of a Liquid – Joule's Calorimeter – Applying Half Time Correction			
5.	Ammeter Calibration (Low Range) - Potentiometer			
6.	OPAMP- Inverting and Non Inverting Amplifier			
7.	Specific Heat Capacity of a Solid – Method of Mixtures			
8.	Determination of Specific Resistance - Carey Foster's bridge			
9.	Coefficient of Viscosity – Poiseuille's Method			

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan, V. and Balakrishnan R., *A Text Book of Practical Physics. Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P222												
II	Course Title: PHYSICS PRACTICAL II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ELEMENTS OF GRAPH THEORY

CODE: 23MT/MC/EG34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand basic concepts of graph theory
- To interpret the concepts of connectedness and their nature of connectivity
- To discover the properties of trees and its characterisation
- To apply graph theory based tools in solving practical problems
- To analyze the applications of graph theory in various fields

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and list the basic concepts of graph theory	K1
CO2	summarize and outline the various graph theoretical terminologies	K2
CO3	identify and apply suitable methods to find solutions to problems related to graph theory	K3
CO4	analyse and examine the properties of various types of graphs through illustrative examples	K4
CO5	choose suitable graph theoretical concepts to estimate the various graphical parameters for any given graph	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Basic Concepts of Graph theory 1.1 Graphs-Vertices and Edges 1.2 Degrees 1.3 Subgraphs 1.4 Isomorphism 1.5 Matrices 1.6 Operations on Graphs	K1- K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Degree Sequences 2.1 Degree Sequences 2.2 Graphic Sequences Connectedness 2.3 Walks, Trails and Paths 2.4 Connectedness and Components 2.5 Blocks	K1- K5	13	CO1-5
3	Eulerian and Hamiltonian Graphs 3.1 Eulerian Graphs 3.2 Konigsberg Bridge Problem 3.3 Hamiltonian Graphs 3.4 Closure of a Graph	K1- K5	13	CO1-5
4	Trees 4.1 Characterisation of Trees 4.2 Centre of a Tree Planarity 4.3 Definition and Properties 4.4 Characterization of Planar Graphs	K1- K5	13	CO1-5
5	Directed Graphs 5.1 Directed Graphs 5.2 Indegree and Outdegree 5.3 Sequential Representation of Directed Graphs Graph Algorithms 5.4 Prim's Algorithm 5.5 Kruskal's Algorithm 5.6 Fleury's Algorithm	K1- K5	13	CO1-5

BOOKS FOR STUDY

Lipschutz, Seymour and Marc Lars Lipson. *Schaum's Outlines Discrete Mathematics*. New Delhi: Tata McGraw-Hill Publishing Company Limited, Revised Third Edition, Thirteenth Reprint 2020.

Chapter 8 Section 8.8 (Prim's and Kruskal's Algorithm only)

Chapter 9 Sections 9.1 – 9.3, 9.5 (Exclude Transitive Closure)

S, Arumugam and Ramachandran S. *Invitation to Graph Theory*. Chennai: Scitech Publications, Reprint July 2023.

Chapter 2 Sections 2.1 - 2.4, (Exclude Ulam's Conjecture) 2.8, 2.9
Chapter 3 Sections 3.1, 3.2
Chapter 4 Sections 4.1 - 4.3
Chapter 5 Sections 5.1, 5.2
Chapter 6 Sections 6.1, 6.2
Chapter 8 Sections 8.1, 8.2

BOOKS FOR REFERENCE

B, Balakrishnan and K Ranganathan. *A Textbook of Graph Theory*. New York: Springer Science and Business Media, 2000

Bondy J A and U S R Murty. *Graduate Texts in Mathematics*. New York: Springer Science and Business Media, 2008

C, Vasudev. *Graph Theory with Application*. New Delhi: New Age International (P) Ltd. Publishers, 2006

Diestel, Reinhard. *Graph Theory*. New York: Springer Science and Business Media, 2006

Gary, Chartrand. *Introductory Graph Theory*. New York: Courier Corporation, 2012

Narsingh, Deo. *Graph Theory with Applications to Engineering and Computer Science*. New York: Courier Dover Publications, 2016.

Skiena, Steven S. *The Algorithm Design Manual*. London: Springer Publishers, 2010

W, Joyner David, Melles Caroline Grant. *Adventures in Graph Theory*. New York: Springer International Publishers, 2018

WEB RESOURCES

<https://www.youtube.com/watch?v=ZsUwebrgJAc&t=25s>

<https://www.coursera.org/learn/graphs>

<https://www.youtube.com/watch?v=87X57ldq1ok&list=PLDV1Zeh2NRsDGO4--qE8yH72HFL1Km93P&index=3>

<https://www.youtube.com/watch?v=87X57ldq1ok&list=PLDV1Zeh2NRsDGO4--qE8yH72HFL1Km93P&index=3>

<https://www.youtube.com/watch?v=QwX1ncB13B0>

<https://www.youtube.com/watch?v=AamHZhAmR7o>

<https://www.youtube.com/watch?v=5M-m62qTR-s>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/EG34												
	Course Title: ELEMENTS OF GRAPH THEORY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

DIFFERENTIAL EQUATIONS

CODE: 23MT/MC/ DE34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the basic types of ordinary differential equations and partial differential equations
- To gain logical skills in the formulation of differential equations
- To appreciate the use of differential equations as a powerful tool to solve real life problems
- To critically analyze the various methods in solving differential equations
- To interpret the solution obtained in solving differential equations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic types of ordinary, partial differential equations and system of differential equations	K1
CO2	understand and illustrate the methods used for solving the problems	K2
CO3	apply differential equations to model and solve the real world problems	K3
CO4	classify and analyze various methods used in solving differential equations	K4
CO5	evaluate general solutions of ordinary and partial differential equations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Second Order Differential Equations 1.1 Second Order Differential Equations with Constant Coefficients 1.2 Particular Integral 1.3 Special Methods of Finding Particular Integral 1.4 Particular Integral of the Form $e^{ax}, \sin ax, \cos ax, x^m$ 1.5 Second Order Differential Equations with Constant Coefficients, Particular Integral of the Form $e^{ax}V$ where V is a Function of x	K1-K5	14	CO1-5
2	Second Order Differential Equations with Variable Coefficients 2.1 Linear Equations With Variable Coefficients 2.2 Equations Reducible to the Linear Homogeneous Equation 2.3 Variation of Parameters Simultaneous Differential Equations 2.4 Simultaneous Equations of the First Order and First Degree 2.5 Simultaneous Linear Differential Equations with Constant Coefficients	K1-K5	13	CO1-5
3	Partial Differential Equations of the First Order 3.1 Introduction 3.2 Formulation of Partial Differential Equation by Eliminating Arbitrary Constants and Arbitrary Functions 3.3 Classification of Integrals 3.4 Some Particular Method – $f(p,q) = 0, z = px + qy + f(p,q), f(z,p,q) = 0, f(x,p) = F(y,q)$ 3.5 Linear Partial Differential Equation of Order One - Lagrange's Method	K1-K5	13	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
4	Partial Differential Equations of Higher Order with Constant Coefficients 4.1 Homogeneous Linear Partial Differential Equations with Constant Coefficients 4.2 Solutions of Partial Differential Equations 4.3 Complementary Function 4.4 Particular Integral of the form e^{ax+by} , $x^r.y^s$	K1-K5	13	CO1-5
5	Applications of Second Order Linear Differential equations 5.1 Spring Problems 5.2 Electrical Circuit Problems 5.3 Related Problems	K1-K5	12	CO1-5

BOOK FOR STUDY

S,Narayanan and T. K. Manicavachagam Pillay. *Calculus - Vol. III*. S. Chennai : Viswanathan Printers & Publishers, Reprint -2012-2022.

Chapter 2 Section 1-4, 8 – 10

Chapter 3 Section 2, 6

S, Santha. *Transforms and Partial Differential Equations*. Chennai: Vijay Nicole Imprints Private Ltd, 2009.

Chapter 1 Section 1.1-1.4, 1.6-1.8 (1.8.1 only)

Bronson, Richard and Gabriel B Costa. *Schaum's Outlines Differential Equations*. New Delhi: Tata McGraw Hill Education Pvt. Ltd., Special Indian Edition 2011

Chapter 14 Sections 14.1 –14.2

BOOKS FOR REFERENCE

Boyce,William E. and Richard C. *Diprima, Elementary Differential Equations and Boundary Value Problems*. USA, John Wiley & Sons , Reprint 2013.

T, Amarnath. *An Elementary Course in Partial Differential Equation (2nd Edition)*. New Delhi: Narosa Publishing House, 2003.

S, Narayan and T.K. Manicavachagom Pillay. *Differential Equations and its Applications*. Chennai: S.Viswanathan Printers & Publishers Pvt. Ltd., 2001.

B, Rai, D.P. Choudhury, and H.I. Freedman. *A Course in Ordinary Differential Equations*. New Delhi: Narosa Publishing House, 2002.

J.N, Sharma and Kehar Singh. *Partial Differential Equations for Engineers and Scientists*. New Delhi: Narosa Publishing House, 2000.

J.N, Sharma and R.K.Gupta. *Differential Equations*. Meerut: Krishna Prakashan Mandir, 1999

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/MC/DE34												
	Course Title: DIFFERENTIAL EQUATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICAL STATISTICS I

CODE: 23MT/AC/ST35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVE OF THE COURSE

- To provide an understanding of random variables, cumulative distribution functions, and the properties associated with probability distributions
- To comprehend mathematical expectation, covariance, moment generating functions, and conditional expected values, and their practical applications
- To analyze and apply special discrete probability distributions, such as binomial and Poisson distributions and their relationships
- To explore the properties and characteristics of the normal distribution
- To examine the concepts of correlation and regression, and their applications in analyzing relationships between variables.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts of probability distributions, expectations, correlation and regression	K1
CO2	demonstrate a comprehensive understanding of concepts related to random variables, mathematical expectation, probability distributions and relation between two variables	K2
CO3	apply the statistical principles to solve problems involving one and two-dimensional variables	K3
CO4	analyse and interpret various probability distributions, and the relational coefficients	K4
CO5	critically evaluate the appropriateness and effectiveness of statistical models and tools	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Random Variables 1.1 Cumulative Distribution Function 1.2 Properties of Cumulative Distribution Function 1.3 Two-Dimensional Random Variables 1.4 Marginal and Conditional Probability Distribution	K1-K5	12	CO1-5
2	Mathematical Expectation 2.1 Mean and Variance and their Properties 2.2 Expected Value of a Function of one and two Dimensional Random Variable 2.3 Covariance of X, Y 2.4 Conditional Expected Values 2.5 Moment and Cumulant Generating Function 2.6 Characteristic Function 2.7 Tchebycheff Inequality	K1-K5	14	CO1-5
3	Special Discrete Probability Distributions 3.1 Binomial Distribution: Characteristic Function, Mean, Mode and Variance, Recurrence Formula 3.2 Poisson Distribution: Moment Generating Function, Central Moments, Recurrence Formula, Mode and Additive property 3.3 Poisson Distribution as a Limiting Form of Binomial Distribution	K1-K5	14	CO1-5
4	Normal Distribution 4.1 Normal distribution: Mean, Variance, Median, Mode, Central Moments, Mean Deviation about the Mean, Quartile Deviation, Moment Generating Functions, Additive Property 4.2 Normal Probability Curve and its Characteristics 4.3 Normal Distribution as a Limiting Form of Binomial Distribution	K1-K5	13	CO1-5
5	Correlation 5.1 Scatter Diagram 5.2 Types of Correlation 5.3 Correlation Coefficient and its Properties 5.4 Correlation of Grouped Bi-variate Data 5.5 Rank Correlation Coefficient 5.6 Merits and Demerits	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	Regression			
	5.7 Equation of the Regression Line of Y on X			
	5.8 Properties of Regression Coefficients			
	5.9 Standard Error of Estimate of Y			

BOOK FOR STUDY

Veerarajan, T. *Fundamentals of Mathematical Statistics*. First edition, Chennai: Yes Dee Publishing Pvt. Ltd., 2017.

Chapter 5	Sections 5.1 – 5.4 (omit 5.4.9)
Chapter 7	Sections 7.1 – 7.6
Chapter 8	Sections 8.1 – 8.4, 8.5.1
Chapter 9	Sections 9.1 (9.1.1 – 9.1.3), 9.2 (9.2.1 – 9.2.7)
Chapter 10	Section 10.9 (10.9.1 – 10.9.5, 10.9.7 – 10.9.9)
Chapter 11	Section 11.1 - 11.4

BOOKS FOR REFERENCE

Freedman, David et. al. *Statistics*. 4th Edition, New Delhi: Vinod Vaistha for Viva Books, 2009.

S, Arumugam, and Issac A. *Statistics*. Palayamkottai: New Gamma Publishing House, 1999.

Sancheti, D.C. and Kapoor V. K. *Statistics: Theory, Methods & Application*. New Delhi: S. Chand & Company Ltd, 2014.

Vittal P.R. *Mathematical Statistics*. Chennai: Margham Publications Pvt. Ltd., 2002.

WEB RESOURCES

<http://makemeanalyst.com/normal-distribution-binomial-distribution-poisson-distribution/>

<https://www.g2.com/articles/correlation-vs-regression>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/ST35												
	Course Title: MATHEMATICAL STATISTICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	2	3	3	3	3	2
CO 2	3	3	3	3	2	2	2	2	3	3	3	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23MT/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

SEQUENCES AND SERIES

CODE: 23MT/MC/SS44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the fundamentals of sets and functions on real numbers
- To understand the concept of convergence of a real sequence
- To discuss the techniques of testing the behavior of infinite series of real Numbers
- To express periodic functions as infinite series
- To determine the Fourier series expansions of certain functions and investigate its convergence

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamental concepts of sets, sequences and series	K1
CO2	understand various concepts related to sets, sequences and series	K2
CO3	apply related theorems and techniques to solve problems on real numbers, sequences and series	K3
CO4	analyze the structure and properties of real numbers, sequences and series	K4
CO5	evaluate the limits of sequences and series and test their convergence	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Sets and Functions 1.1 Functions – Real Valued Functions 1.2 Equivalence, Countability 1.3 Real Numbers 1.4 Least Upper Bounds	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Sequences of Real Numbers 2.1 Definition of Sequence and Subsequence 2.2 Limit of a Sequence 2.3 Convergent and Divergent Sequences 2.4 Bounded Sequences 2.5 Monotone Sequences 2.6 Operations on Convergent and Divergent Sequences	K1-K5	13	CO1-5
3	Supremum, Infimum and Cauchy's Sequences 3.1 Limit Superior and Limit Inferior 3.2 Cauchy Sequences Series of Real Numbers 3.3 Convergence and Divergence 3.4 Series with Non-negative Terms 3.5 Alternating Series 3.6 Conditional Convergence and Absolute Convergence	K1-K5	14	CO1-5
4	Tests for Convergence of a Series of Real Numbers 4.1 Tests for Absolute Convergence 4.2 Series whose terms form a Non-increasing Sequence 4.3 Summation by Parts	K1-K5	14	CO1-5
5	Fourier Series 5.1 Definition of Fourier Series 5.2 Expansions of Periodic Functions with Period 2π 5.3 Odd and Even Functions 5.4 Half-range Fourier Series 5.5 Development in cosine and sine Series	K1-K5	12	CO1-5

BOOKS FOR STUDY

Goldberg Richard.R. *Methods of Real Analysis*. Indian Edition. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd., Reprint 2017.

Chapter 1	Section 1.3 – 1.7
Chapter 2	Sections 2.1 – 2.10
Chapter 3	Sections 3.1 – 3.4, 3.6 – 3.8

S, Narayanan and Manicavachagam Pillay T. K. *Calculus -Volume III*. Chennai: S. Viswanathan Publishers & Printers, 2006.

Chapter 6 Sections 1 – 5

BOOKS FOR REFERENCE

Ajit, Kumar and Kumarasan S. *A Basic Course in Real Analysis*, USA: CPC Press 2014.

Banner Adrian. *The Calculus Lifesaver*. USA: Princeton University Press, ebook.

V. K, Bhat and Jarol Scott. *Introduction to Real Analysis*. New Delhi: Narosa Publishing House, 2012.

S. L, Gupta and Gupta N. R. *Principle of Real Analysis*. New Delhi: Pearson Education, 2003.

V, Karunakaran. *Real Analysis*. India: Pearson Education, 2012.

Narayan, Shanti and Mittal P.K. *A Course of Mathematical Analysis*. Noida: Vikas Publishing House Private Limited, 2021.

Robert, G Bartle. *Introduction to Real Analysis*. New York : John Wiley & Sons, 2010.

Terrance J Quinn. *Pathways to Real analysis*. New Delhi: Narosa Publishing House, 2009.

WEB RESOURCES

https://www.whitman.edu/mathematics/calculus/calculus_11_Sequences_and_Series.pdf

<http://www.math.utah.edu/online/1220/notes/ch9.pdf>

<http://www.math.harvard.edu/~engelwar/MathS305/Sequences%20and%20Series%20Text%20abridged.pdf>

<https://ncert.nic.in/pdf/publication/exemplarproblem/classXI/mathematics/keep209.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:		Total Marks: 50	Duration: 90 minutes
Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: **Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/SS44												
	Course Title: SEQUENCE AND SERIES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

DISCRETE MATHEMATICS

CODE: 23MT/MC/DM43

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To motivate the students to think logically and apply the techniques in problem solving
- To introduce the concepts of ordered relation and understand the fundamental properties of lattices and Boolean algebra
- To apply the knowledge of abstract mathematical structures in computer science
- To introduce the fundamental concepts of formal languages, grammars and automata theory
- To understand deterministic and non-deterministic machines and classify machines by their power to recognize languages

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire the knowledge of logical techniques and identify their applications	K1
CO2	recognize and apply the concepts of logic, lattices, Boolean algebra and Automata in related fields	K2
CO3	demonstrate the characterization of propositional calculus, lattices, Boolean functions and automata	K3
CO4	interpret the sets under study to apply in data structures and theory of computer languages	K4
CO5	assess the emerging fields to utilize the intrinsic concepts of discrete mathematics	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Logic and Propositional Calculus 1.1 Logical Equivalence 1.2 Algebra of Propositions 1.3 Arguments 1.4 Logical Implication 1.5 Propositional Functions, Quantifiers 1.6 Negation of Quantified Statements 1.7 Normal Forms	K1- K5	12	CO1-5
2	Lattices 2.1 Lattice 2.2 Properties of Lattices 2.3 Lattices as Algebraic System 2.4 Bounded, Complemented and Distributive Lattice	K1- K5	10	CO1-5
3	Boolean Algebra 3.1 Basic Properties of Boolean Algebra 3.2 Representation Theorem 3.3 Boolean Expressions 3.4 Logic Gates and Circuits 3.5 Boolean Function	K1- K5	10	CO1-5
4	Finite State Automata 4.1 Finite State Machines 4.2 Finite State Automata 4.3 Non-deterministic Finite State Automaton 4.4 Equivalence of DFSA and NDFSA	K1- K5	10	CO1-5
5	Languages and Grammars 5.1 Languages and Regular Expressions 5.2 Languages Determined by FSA 5.3 Grammars 5.4 Derivation Trees for Context Free Grammar	K1- K5	10	CO1-5

BOOKS FOR STUDY

Seymour, Lipschutz. and Marc Lars Lipson, *Schaum's Outline of Theory and Problems of Discrete Mathematics*, New Delhi: Tata McGraw-Hill Publishing Company Limited, Third Edition 2010

Chapter 4 Sections 4.6, 4.7, 4.9 - 4.13

Ram, Babu. *Discrete Mathematics*, Noida: Pearson - Dorling Kindersley (India) Pvt. Ltd., 2011.

Chapter 6 Sections 6.1 – 6.3, 6.5

Chapter 7 Sections 7.1-7.5

Chapter 9 Sections 9.1 (omit sections 9.1.4 – 9.1.6), 9.2 – 9.4

Chapter 10 Sections 10.1 – 10.4

BOOKS FOR REFERENCE

J.P,Tremblay and R. Manohar. *Discrete Mathematical Structures with Applications to Computer Science*. New Delhi: Tata McGraw-Hill Publishing Company Limited, 2004.

D.S, Malik, and M.K.Sen. *Discrete Mathematics*, India: Binding House, Indian Edition, 2008.

Biggs, Norman L. *Discrete Mathematics*. India: Oxford University Press, Second Edition, 2003.

Grimaldi, Ralph P. and B.V. Ramana, *Discrete and Combinatorial Mathematics*, New Delhi: Dorling Kindersley (India) Pvt. Ltd., Fifth Edition, 2004.

Garnier, Rowan. and John Taylor, *Discrete Mathematics*, New Delhi: CRC Press, Special Indian Edition, Third Edition, 2011.

Sharma. *Discrete Mathematics*, Chennai: Macmillan India Ltd., 2003.

Sarkar, Swapan Kumar. *A textbook of Discrete Mathematics*, New Delhi: S. Chand and Company Ltd., 2004.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/DM43												
	Course Title: DISCRETE MATHEMATICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICAL STATISTICS II

CODE: 23MT/AC/ST45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To gain a comprehensive understanding of basic concepts of sampling theory
- To understand point estimation and interval estimation concepts
- To learn the principles of ANOVA, including one-way and two-way classification and apply these techniques to analyze and compare means across multiple groups
- To acquire the skills to analyze time series data, including trend analysis, seasonal decomposition, and forecasting methods
- To select appropriate sampling methods for different types of data and research questions, and apply these methods effectively in practice

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamental definitions and techniques employed in distributions and statistical tools	K1
CO2	demonstrate a comprehend understanding on statistical principles and their applications, especially in estimation, tests of significance, time series analysis, and analysis of variance	K2
CO3	apply sampling theory, time series analysis, ANOVA, and estimation methods to the given data, addressing practical problems and making appropriate decisions	K3
CO4	analyse real world data sets, trends and patterns in time series data, and perform comprehensive hypothesis tests, confidence intervals and ANOVA experiments, including the interpretation of data given	K4
CO5	evaluate the robustness of sampling procedures, estimation theory, time series models, ANOVA experiments, and their impact on the validity of statistical conclusions	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Sampling Theory 1.1 Introduction 1.2 Types of Sampling 1.3 Method of Drawing Random Sample 1.4 Sampling Distributions of Sample Mean and Sample Proportion Distributions used in Sampling Theory 1.5 Standard Normal Distribution, Chi-Square Distribution, Student's <i>t</i> -Distribution, Snedecor's <i>F</i> -Distribution 1.6 Relations between Standard Normal, Chi-Square, <i>t</i> , <i>F</i> -Distribution	K1-K5	13	CO1-5
2	Theory of Estimation 2.1 Introduction 2.2 Point Estimation- Criteria for Good Estimators 2.3 Methods of Point Estimation Interval Estimation 2.4 Introduction 2.5 Approximate Confidence Limits (Large Samples) 2.6 Exact Confidence Limits (any Sample Size)	K1-K5	13	CO1-5
3	Tests of Significance 3.1 Statistical Hypothesis – Level of Significance, Critical Region, One-Tailed and Two-Tailed Tests, Type I & II Errors, Power of a Test 3.2 Large Sample Tests 3.3 Chi-Square Test for Goodness of Fit 3.4 Test For Independence of Attributes 3.5 Yate's Correction 3.6 Small Sample Tests	K1-K5	14	CO1-5
4	Analysis of Variance 4.1 Introduction 4.2 Different Sources of variation 4.3 Technique in One-Way Classification 4.4 Locating Unequal Pairs of Means 4.5 Technique in Two-Way Classification	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
5	Time Series Analysis 5.1 Meaning and Necessity of Time Series 5.2 Components of Time Series 5.3 Secular Trend 5.4 Measurement of Trend 5.5 Seasonal Variation 5.6 Measurement of Seasonal Variation	K1-K5	13	CO1-5

BOOK FOR STUDY

N G, Das. *Statistical Methods Vol II*. New Delhi: Tata McGraw-Hill Publishing Company Limited, Second reprint, 2009.

Chapter 3	Sections 3.1 - 3.8 (omit 3.2, 3.7A)
Chapter 4	Sections 4.1 - 4.8
Chapter 5	Sections 5.1 - 5.7
Chapter 6	Sections 6.1 - 6.8 (Omit 6.6)

BOOKS FOR REFERENCE

D C, Sancheti and Kapoor V K, *Statistics Theory, Methods & Application*, New Delhi: S. Chand & Company Ltd, 2014.

I, Richard, et al. *Statistics for Management*. New Delhi: Prentice Hall, 2000.

S, Arumugam, and Issac A. *Statistics*. Palayamkottai: New Gamma Publishing House, 1999.

Subramaniam, N. *Probability and Statistics*. Erode: SCM, 2005.

WEB RESOURCES

<https://stattrek.com/regression/linear-regression.aspx>

<https://statistics.laerd.com/statistical-guides/hypothesis-testing.php>

<https://www.spss-tutorials.com/anova-what-is-it/>

<http://www.statsoft.com/textbook/time-series-analysis>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 Questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 Questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/ST45												
	Course Title: MATHEMATICAL STATISTICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	2	3	3	3	3	2
CO 2	3	3	3	3	2	2	2	2	3	3	3	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Com. (General) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMMERCE

CODE: 23MT/AC/MT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts pertaining to the discipline of commerce
- To employ different techniques to solve problems pertaining to matrices, equations and LPP
- To appreciate the concept of numerical differentiation and integration as an alternate tool to solve problems on differentiation and integration
- To promote problem solving skills and quantitative analysis
- To model and solve real time problem using linear programming method

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and define the basic mathematical concepts on matrices, equations, differentiation, integration and linear programming problem	K1
CO2	understand and compare the concepts relating to matrices, polynomials, numerical methods and linear programming problem	K2
CO3	utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CO4	analyse and examine the problem relating to the applications of matrices, differentiation, integration and optimization	K4
CO5	evaluate solutions to the problems related to matrices, equations, differentiation, integration and linear programming problem	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Matrices 1.1 Types of Matrices 1.2 Characteristic Equation of a Matrix 1.3 Cayley - Hamilton Theorem (without proof) 1.4 Eigen Values and Eigen Vectors 1.5 Diagonalization of 3×3 Matrices with Distinct Eigen Values	K1- K5	13	CO1-5
2	Theory of Equations 2.1 Formation and Solution of Equation with Imaginary and Irrational Roots 2.2 Relation between Roots and Coefficients 2.3 Solution of Equations under given Conditions 2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients 2.5 Reciprocal Equations	K1-K5	14	CO1-5
3	Numerical Methods Algebraic and Transcendental Equations 3.1 The Bisection Method 3.2 Newton - Raphson Method Simultaneous Equations 3.3 Gaussian Elimination Method 3.4 Gauss Jordan Elimination Method 3.5 Gauss Jacobi Iteration Method 3.6 Gauss Seidal Iteration Method	K1-K5	13	CO1-5
4	Numerical Differentiation and Numerical Integration 4.1 Derivatives using Newton's forward difference Formula 4.2 Derivatives using Newton's backward difference Formula 4.3 Trapezoidal Rule 4.4 Simpson's One Third Rule 4.5 Simpson's Three Right Rule	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
5	Linear Programming Problem 5.1 General L.P.P. 5.2 Canonical and Standard Forms of L.P.P. 5.3 The Simplex Algorithm 5.4 The Big-M method	K1-K5	13	CO1-5

BOOKS FOR STUDY

S, Arumugam, et al. *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017.

Chapter 3 Sections 3.3, 3.5

Chapter 4 Sections 4.3, 4.4, 4.7, 4.8

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to concepts only)

V, Sundaresan, et al. *Resource Management Techniques*. Chennai: A.R. Publications, 2014.

Chapter 3 Sections 3.1.1 – 3.1.4, 3.2.1

S G, Venkatachalapathy. *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016.

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

BOOKS FOR REFERENCE

A, Abdul Rasheed. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008.

S, Kalavathy. *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

S, Sankarappan, et al. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

WEB RESOURCES

<https://youtu.be/w8i89ftfZPI?si=HIaO4tYZ9ge9zPxx>

https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SMT1302.pdf

<https://www.math.ucla.edu/~tom/LP.pdf>

<http://www.math.iitb.ac.in/~baskar/book.pdf>

<http://ncert.nic.in/ncerts/l/lemh206.pdf>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MT45												
	Course Title: MATHEMATICS FOR COMMERCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	2	2	1	1
CO 2	3	3	3	3	2	2	1	1	3	2	2	1	1
CO 3	3	3	3	3	3	3	1	1	3	2	2	1	1
CO 4	3	3	3	3	3	3	1	1	3	2	2	1	1
CO 5	3	3	3	3	3	3	1	1	3	2	2	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

VECTOR ANALYSIS AND APPLICATIONS

CODE: 23MT/MC/VA53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To familiarize the concept of magnitude and direction of a vector quantity
- To introduce the concept of vector differentiation and vector integration
- To discover the various scalar and vector differential operators
- To apply vector integration to evaluate line, surface and volume integrals
- To establish the relations between Gauss divergence, Green's and Stoke's theorem

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the basic definitions of vector differentiation and vector integration	K1
CO2	explain and illustrate the concepts of vector differential operators and its geometrical significance	K2
CO3	apply the concepts of vector differentiation and vector integration to solve problems	K3
CO4	analyse the properties of vector differential operators and to classify line, surface and volume integral problems	K4
CO5	evaluate and describe the importance of integral theorems through the concepts studied	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Vector Differentiation 1.1 Scalar and Vector Point Functions 1.2 Level Surfaces 1.3 Directional Derivative of a Scalar Point Function 1.4 Gradient of a Scalar Point Function 1.5 Gradient of a Vector Point Function	K1-K5	11	CO1-5
2	Divergence and curl 2.1 Divergence and Curl of a Vector Point Function 2.2 Laplacian Differential Operator 2.3 Divergence and Curl of a Gradient 2.4 Divergence and Curl of a Curl	K1-K5	10	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
3	Vector Integration 3.1 Line Integrals 3.2 Independence of Path of Integration 3.3 Conservative Field and Scalar Potential 3.4 Line Integral of a Conservative Vector	K1-K5	11	CO1-5
4	Surface and Volume Integrals 4.1 Surface Integrals 4.2 Volume Integrals 4.3 Cylindrical and Spherical Polar Coordinates	K1-K5	10	CO1-5
5	Integral Theorems 5.1 Integral Theorems 5.2 Gauss' Divergence Theorem(Statement Only) 5.3 Integral Theorems Derived from the Divergence Theorem 5.4 Green's Theorem in Plane (Statement Only) 5.5 Stoke's Theorem (Statement Only) 5.6 Integral Theorems Derived from Stoke's Theorem	K1-K5	10	CO1-5

BOOK FOR STUDY

P, Duraipandian and Pachaiyappa K. *Vector Analysis*. New Delhi: S. Chand & Company Pvt. Ltd., first edition, 2014, Reprint 2015.

Chapter 2 2.1 – 2.13

Chapter 3 3.1 – 3.8

Chapter 4 4.1 - 4.6

BOOKS FOR REFERENCE

Lipschutz, Seymour, et al. *Vector Analysis and an Introduction to Tensor Analysis (Second Edition)* *Schaum's Outline Series*. New Delhi: Tata McGraw Hill, 2009

Narayanan, S, and Manicavachagom Pillay T K. *Vector Algebra and Analysis*, Chennai: S. Viswanathan Publishers and Printers, 2006

Narayan, Shanti, and P K Mittal. *A Textbook of Vector Analysis*, New Delhi: S. Chand & Company Limited, 2021.

Prasun Kumar Nayak. *Vector Algebra and Analysis with Applications*. Hyderabad: Universities Press Pvt. Ltd., 2017

Shaikh, Absos Ali, and Sanjib Kumar Jana, *Vector Analysis with Applications*, Narosa publishing House, 2009

Shalini Singh. *Vector Calculus*. New Delhi: Sarup & Sons, 2013.

WEB RESOURCES

<https://www.khanacademy.org/math/multivariable-calculus/integrating-multivariable-functions/line-integrals-in-vector-fields-articles/a/line-integrals-in-a-vector-field>

<https://math24.net/geometric-applications-line-integrals.html>

https://mathinsight.org/surface_integral_vector_field_introduction

<https://www.khanacademy.org/math/multivariable-calculus/integrating-multivariable-functions/triple-integrals-topic/a/triple-integrals>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/MC/VA53												
	Course Title: VECTOR ANALYSIS AND APPLICATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ALGEBRAIC STRUCTURES

CODE: 23MT/MC/AS55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce the concepts of basic algebraic structures
- To understand the development of algebraic structures
- To solve problems related to the concept of rings and fields
- To analyze various algebraic structures and their concepts
- To illustrate the importance of abstract algebra in applied mathematics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and recall the basic concepts of algebraic structures	K1
CO2	understand the concepts of groups, rings and fields	K2
CO3	apply appropriate methods to solve related problems in abstract algebra	K3
CO4	analyze and examine the concepts of groups and rings through illustrations and examples	K4
CO5	prove the concepts of groups, rings and fields and evaluate the related problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Group Theory 1.1 Elementary Properties of Groups 1.2 Finite Groups 1.3 Subgroups 1.4 Cyclic Groups – Properties, Classification of Subgroups of Cyclic Groups	K1-K5	15	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Permutation Groups 2.1 Cycle Notation 2.2 Properties of Permutations Isomorphisms 2.3 Cayley's Theorem 2.4 Properties of Isomorphisms 2.5 Automorphisms	K1-K5	15	CO1-5
3	Cosets and Lagrange's Theorem 3.1 Properties of Cosets 3.2 Lagrange's Theorem and Consequences 3.3 An Application of Cosets to Permutation Groups Normal Subgroups and Factor Groups 3.4 Normal Subgroups 3.5 Factor Groups	K1-K5	16	CO1-5
4	Group Homomorphism 4.1 Properties of Homomorphisms 4.2 The First Isomorphism Theorem Ring Theory 4.3 Properties of Rings 4.4 Subrings 4.5 Integral Domains 4.6 Fields 4.7 Characteristic of a Ring	K1-K5	16	CO1-5
5	More on Ring Theory 5.1 Ideals and Factor Rings 5.2 Prime Ideals and Maximal Ideals 5.3 Ring Homomorphisms 5.4 Properties of Ring Homomorphisms 5.5 Field of Quotients	K1-K5	16	CO1-5

BOOK FOR STUDY

Gallian, Joseph A. *Contemporary Abstract Algebra*. New Delhi: Cengage Learning, Eighth Edition, Reprint 2016.

Chapters 2 – 7, 9 – 10, 12 – 15, 27 (Pages 42-91, 99-112, 118-152, 185-192, 208-221, 245-293 only)

BOOKS FOR REFERENCE

Arora, Kishore. *Concepts and Applications of Group Theory*. New Delhi: Anmol Publications Pvt. Ltd., 2003.

Chatterjee, Dipak. *Abstract Algebra*. 2nd ed., New Delhi: Prentice Hall of India, 2005.

I.N, Herstein. *Topics in Algebra*. 2nd ed., New Delhi: Wiley, 2007, Reprint 2017.

McCoy, Neal H. and Gerald Janusz J. *Introduction to Abstract Algebra*. 6th ed., New Delhi: Academic Press, 2005.

M.L. Santiago. *Modern Algebra*. New Delhi: Tata McGraw-Hill, 2001.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50
Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/AS55												
	Course Title: ALGEBRAIC STRUCTURES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF REAL ANALYSIS

CODE: 23MT/MC/RA55

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enhance the knowledge of abstract mathematics on the real line and metric spaces
- To describe the fundamental properties of the real numbers that underpin the formal development of real analysis
- To demonstrate skills in constructing rigorous mathematical arguments for proving connected, bounded, complete and compact metric spaces
- Apply the theory to solve a variety of problems at an appropriate level of difficulty
- To introduce the concepts of Riemann Integration and analyze its properties

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and recall the abstract mathematical concepts on the real line and metric spaces	K1
CO2	illustrate the theoretical concepts using relevant examples	K2
CO3	identify potential solutions to problems involving limit, continuity, uniform continuity, convergence, derivatives and integration	K3
CO4	analyse the abstract concepts and choose appropriate methods for proving the theoretical results	K4
CO5	compare the various methods in mathematical analysis that can be applied to evaluate analytical problems	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Limits and Continuity on \mathbb{R}^1 1.1 Limit of a Function on the Real Line 1.2 Functions Continuous at a Point on the Real Line 1.3 Reformulation Metric Spaces 1.4 Definitions with Examples	K1- K5	12	CO1-5
2	Limits and Continuity on Metric Spaces 2.1 Limits in Metric Spaces 2.2 Functions Continuous on a Metric Space 2.3 Open Sets 2.4 Closed Sets	K1- K5	14	CO1-5
3	Connectedness and Completeness on Metric Spaces 3.1 Connected Sets 3.2 Bounded Sets and Totally Bounded Sets 3.3 Complete Metric Spaces	K1- K5	12	CO1-5
4	Compactness on Metric Spaces 4.1 Compact Metric Spaces 4.2 Continuous Functions on a Compact Metric Space 4.3 Continuity of an Inverse Function 4.4 Uniform Continuity	K1- K5	12	CO1-5
5	Riemann Integration 5.1 Definition of the Riemann Integral 5.2 Properties of the Riemann Integral 5.3 Derivatives 5.4 Rolles' Theorem 5.5 The Law of the Mean 5.6 Fundamental Theorem of Calculus	K1- K5	15	CO1-5

BOOK FOR STUDY

Goldberg Richard R, *Methods of Real Analysis*. Indian Edition. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd. , 1970, Reprint 2017.

Chapter 4	Sections 4.1 – 4.3
Chapter 5	Sections 5.1 – 5.5
Chapter 6	Sections 6.1 – 6.8
Chapter 7	Sections 7.2, 7.4 - 7.8

BOOKS FOR REFERENCE

Brian S.Thomson, et al., *Elementary Real Analysis*. USA: Prentice Hall, 2001.

Kumar Ajit, S Kumarasan, *A Basic Course in Real Analysis*. USA: CPC Press 2014.

A. Kumar, S. Kumaresan, *A Basic Course in Real Analysis*. USA: CRC Press, 2014.

Mainak Mukherjee, *A Course in Real Analysis*. New Delhi: Narosa Publishing House, 2011.

S C Malik, *Principles of Real Analysis*. Third edition. New Delhi: New Age International Pvt. Ltd., 2011.

Nader Vakil, *Real Analysis through Modern Infinitesimals*. New Delhi: Cambridge University Press, 2011.

Shanti Narayan, M.D.Raisinghania, *Elements of Real Analysis*. New Delhi: S. Chand & Company Limited, eighth revised edition 2007.

WEB RESOURCES

http://ramanujan.math.trinity.edu/wtrench/texts/TRENCH_REAL_ANALYSIS.PDF

<http://www.personal.psu.edu/dpl14/java/calculus/limits.html>

<https://www.math.stonybrook.edu/~aknapp/download/b2-realanal-inside.pdf>

<https://www.jirka.org/ra/realanal.pdf>

<https://www.isid.ac.in/~tridip/Teaching/MathEco/LectureNotes/05RealAnalysisBasicConcepts.pdf>

<http://www.freebookcentre.net/Mathematics/Real-Analysis-Books.html>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: **Total Marks: 50**
 Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: **Total Marks: 100** **Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
 to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/RA55												
	Course Title: PRINCIPLES OF REAL ANALYSIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

INTEGRAL TRANSFORMS

CODE: 23MT/MC/IT54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To develop an understanding of the basic types of integral transforms
- To apply the concepts of Laplace transforms in evaluating integrals and solving differential equations
- To apply Laplace transforms to solve differential equations and Z-transform to solve difference equations
- To analyze the various concepts of Laplace, Fourier and Z-transforms
- To solve difference equations using Z-transforms

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the suitable techniques of differential and integral calculus and concepts of differential equations to solve Laplace, Fourier and Z-transforms	K1
CO2	understand the concepts involved in Laplace, Fourier and Z-transforms	K2
CO3	apply the concepts of the integral transforms under study to solve problems of differential and difference equations	K3
CO4	analyse the problems based on Laplace, Fourier and Z-transforms	K4
CO5	evaluate Laplace, Fourier and Z-transforms of various functions using the appropriate methods	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Laplace Transform 1.1 Definition of Laplace Transform 1.2 Laplace Transform of e^{at} , $\cos at$, $\sin at$ and t^n , where n is a Positive Integer 1.3 Laplace Transform of Periodic Functions 1.4 Some General Theorems 1.5 Evaluation of Integrals using Laplace Equations 1.6 Inverse Laplace Transform	K1- K5	12	CO1-5
2	Application of Laplace Transform to Differential Equations 2.1 Laplace Transform to Solve System of Differential Equations with Constant Coefficient 2.2 Laplace Transform to Solve Ordinary Differential Equations with Variable Coefficients 2.3 Laplace Transform to solve Differential Equations Involving Integrals 2.4 Laplace Transform to Evaluate Certain Integrals	K1- K5	14	CO1-5
3	Fourier Transforms 3.1 Definition of Fourier Transforms, Fourier Cosine Transform & Fourier Sine Transform 3.2 Alternative Form of Fourier Complex Integral Formula 3.3 Relationship between Fourier Transform and Laplace Transform 3.4 Properties of Fourier Transforms	K1- K5	12	CO1-5
4	Z-Transforms 4.1 Definition of Z-Transforms 4.2 Properties of Z-Transforms 4.3 Z-Transforms of Some Basic Functions	K1- K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
5	Inverse Z–Transforms 5.1 Inverse Z–Transforms 5.2 Evaluation of Inverse Z–Transforms using Expansion Method, Long Division Method - Partial Fractions Method - by Cauchy’s Residue Theorem 5.3 Formation of Difference equations and Use of Z-Transform to Solve them	K1- K5	14	CO1-5

BOOKS FOR STUDY

Narayanan, S, and T. K. Manicavachagam Pillay. *Calculus - Volume III*. S. Chennai : Viswanathan Publishers, 2022.

Chapter 5 Sections 1 – 12

T, Veerarajan. *Transforms and Partial Differential Equations*. New Delhi: McGraw Hill Education, India Private Limited, 2016.

Chapter 4 Sections 4.1 – 4.6

Chapter 5 Sections 5.1 – 5.5

BOOKS FOR REFERENCE

A. R, Vasishtha and R K Gupta. *Integral Transforms*, Meerut: Krishna Prakashan Mandir, 1972.

Donald, A. McQuarrie. *Mathematical Methods for Scientists & Engineers*, New Delhi: Viva Books Pvt.Ltd., 2009.

Erwin, Kreyszig. *Advanced Engineering Mathematics*, 8th Edition, Wiley India, 2006.

Patra, Baidyanath. *An Introduction to Integral Transforms*, India: Levant Book, 2016.

S, Sankarappan, et al. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

WEB RESOURCES

https://www.tutorialspoint.com/signals_and_systems/fourier_transforms.htm

<https://www.rfwireless-world.com/Terminology/Z-Transform-vs-Inverse-Z-Transform.html>

<https://lpsa.swarthmore.edu/ZXform/InvZXform/InvZXform.html>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/IT54												
	Course Title: INTEGRAL TRANSFORMS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Interdisciplinary Core Course offered by the Departments of Mathematics and
Computer Science to B.Sc. Mathematics Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS THROUGH SCIENTIFIC SOFTWARE

CODE: 23ID/IC/MS55

CREDITS: 5

L T P: 1 0 5

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce software tools for implementing mathematical concepts
- To acquire proficiency in using different functions of Python to compute solutions of basic mathematical and statistical problems
- To demonstrate the use of Python and Excel to solve equations along with visualizing the solutions
- To acquire skill in choosing the suitable libraries of Python to solve problems on mathematical modeling
- To develop simple functions for handling problems involving mathematics and statistics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the basics of spreadsheet and Python	K1
CO2	acquire the knowledge of various built in library functions for expressing and solving mathematical problems in Excel and Python	K2
CO3	apply the software tools for implementing Mathematical concepts and obtain solutions	K3
CO4	evaluate different types of formulas and functions available in Excel and Python to determine the best one for a given set of data.	K4
CO5	build user-defined functions for simple applications using Python and Excel	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Microsoft Excel 1.1 Introduction to Excel : Navigation and Selecting - View Options - Data Entry, Data Types, Editing and Deleting - Fill Handle	K1 - K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	1.2 Formulas - Functions : Autosum, Sum, Average, Max, Min, Count, CountIF, SumIF, AverageIF 1.3 Creating Named Ranges and Constants - Absolute and Cross Reference 1.4 Formatting - Borders - Alignment tools - Number Formats - Format Painter - Styles and Themes 1.5 Managing Rows & Columns - Find & Replace 1.6 Filtering - Sorting - Conditional Formatting - Data Validation			
2	Advance Excel Options 2.1 Importing Data - Data Cleaning 2.2 Database functions : dsum, daverage, dmax, dmin, dcount, VLOOKUP, HLOOKUP 2.3 Printing : Preview, Orientation, Margin and Scale, Page Break, Print Titles, Header and Footer 2.4 Charts: Chart Types, Move and Resize Chart, Changing Chart Styles and Chart Elements 2.5 Pivot Table - Freeze Panes 2.6 Form Controls 2.7 Macros - Solver - Goal Seek	K1 - K5	13	CO1-5
3	Python Basics 3.1 Variables, Reserved words, Comments, Formatting Text and Numbers 3.2 User Defined Functions 3.3 Looping and Branching 3.4 Importing Standard Mathematical Functions 3.5 Basic Mathematical Operations, Different Kinds of Numbers, Working with Fractions, Complex Numbers 3.6 Getting User Input, Fractions and Complex Numbers as Input	K1 - K5	18	CO1-5
4	Mathematics with Python using NumPy and SymPy 4.1 Creating Vectors, Lists, Arrays, Scalars and Matrices 4.2 Arithmetic Operations on Matrices, Eigen Values & Eigen Vectors 4.3 Solving System of Equations	K1 - K5	17	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	4.4 Working with Expressions, Factorizing and Expanding Expressions, Substituting in Values 4.5 Converting Strings to Mathematical Expressions 4.6 Solving Quadratic Equations, Solving for One Variable in Terms of Others, Solving a System of Linear Equations. 4.7 Plotting Expressions Input by the User, Plotting Multiple Functions			
5	Statistics Using Python 5.1 Analyzing Data: Mean, Median, Mode, Frequency Table, Measuring the Dispersion, Variance, Standard Deviation, Correlation, Scatter Plot 5.2 Visualizing Data with Graphs – Understanding the Cartesian Coordinate Plane, Creating Graphs with Matplotlib, Customizing Graphs 5.3 Reading Data: Reading Data from a Text File, Reading Data from a CSV file, Creating a Grouped Frequency Table from a Data File	K1 - K5	17	CO1-5

BOOKS FOR STUDY & REFERENCE

Curtis, D. Frye. *Microsoft Excel 2013*, Step by Step. 2013.

Greg Harvey, John, *Excel for Dummies*, Wiley & Sons, Inc, 2018.

Langtangen, Hans Petter. *A Primer on Scientific Programming with Python*, 5th edition, Springer Nature, 2016.

Saha, Amit. *Doing Math with Python: Use Programming to Explore Algebra, Statistics, Calculus, and More*, No Starch Press, Inc., San Francisco, 2015.

Winston, Wayne. *Microsoft Excel data analysis and business modeling*. Microsoft press, 2016.

WEB RESOURCES

<https://blog.hubspot.com/marketing/microsoft-excel>

<https://www.sgul.ac.uk/about/our-professional-services/information-services/library/documents/training-manuals/Excel-Fundamentals-Manual.pdf>

<https://www.w3resource.com/python-exercises/>

<https://www.geeksforgeeks.org/what-is-symbolic-computation-in-sympy/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Theory Pattern

Section	Cognitive Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (5 MCQ to be set) [2(Excel)+3(Python)]
B	K2	5	$5 \times 1 = 5$ (5 MCQ to be set) [2(Excel)+3(Python)]

Practical Pattern

Section	Cognitive Level	Marks	Pattern
C	K3	20	$1 \times 20 = 20$ (2 questions to be set) [Excel - 1, Python - 1]
D	K4	10	$1 \times 10 = 10$ (2 questions to be set) [CA1 - Excel, CA2 - Python]
E	K5	10	$1 \times 10 = 10$ (2 questions to be set) [CA1 - Python, CA2 - Excel]

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100

Duration: 3 hours

(Question paper to be prepared jointly by one course teacher and one internal–external examiner)

Theory Pattern

Section	Cognitive Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ [10 MCQ to be set with 4(Excel)+6(Python)]
B	K2	10	$10 \times 1 = 10$ [10 MCQ to be set with 4(Excel)+6(Python)]

Practical Pattern

Section	Cognitive Level	Marks	Pattern
C	K3	40	$2 \times 20 = 40$ (3 questions to be set) [Excel - 1, Python - 2]
D	K4	20	$2 \times 10 = 20$ (internal choice) [Excel - 1, Python - 1]
E	K5	20	$2 \times 10 = 20$ (internal choice) [Excel - 1, Python - 1]

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/MS55												
	Course Title: MATHEMATICS THROUGH SCIENTIFIC SOFTWARE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

VECTOR SPACES AND LINEAR TRANSFORMATIONS

CODE: 23MT/MC/VL64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce basic concepts of vector spaces, inner product spaces and linear transformations
- To develop an understanding of linear algebraic structures
- To enable understanding of the concept of linear transformations and their matrix representation
- To illustrate the importance of linear algebra in applied mathematics
- To interpret the concepts in inner product space to solve problems in applicable areas

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and define basic concepts in vector spaces and linear transformations	K1
CO2	understand the concepts pertaining to vector spaces, linear transformation and inner product spaces	K2
CO3	apply appropriate method to solve related problems in linear algebra	K3
CO4	analyse and examine the concepts of linear algebra through illustrations and examples	K4
CO5	establish the concepts of vector spaces, linear transformation and inner product spaces and evaluate the related problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Vector Spaces 1.1 General Vector Spaces and Subspaces 1.2 Linear Combinations 1.3 Linear Dependence and Independence 1.4 Properties of Bases	K1-K5	13	CO1-5
2	Rank and Orthogonalization of Vectors 2.1 Rank 2.2 Orthonormal Vectors and Projections 2.3 Gram-Schmidt Orthogonalization Process 2.4 Kernel, Range and the Rank-Nullity Theorem	K1-K5	13	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
3	Transformations 3.1 Matrix Transformations, Rotations and Dilations 3.2 One-to-one Transformations and Inverse Transformations 3.3 Transformations and Systems of Linear Equations	K1-K5	13	CO1-5
4	Coordinate Representations 4.1 Coordinate Vectors 4.2 Change of Basis 4.3 Matrix Representations of Linear Transformations 4.4 Importance of Matrix Representation 4.5 Diagonalization of Matrices 4.6 Diagonalization of Symmetric Matrices – Orthogonal Diagonalization 4.7 Diagonal Matrix Representation of a Linear Operator	K1-K5	13	CO1-5
5	Inner Product Spaces 5.1 Inner Product 5.2 Norm of a Vector 5.3 Orthogonal Vectors 5.4 Approximation of Functions and Coding Theory 5.5 Least Squares Curves	K1-K5	13	CO1-5

BOOK FOR STUDY

Williams, Gareth, *Linear Algebra with Applications*. 9th Edition, USA: Jones & Barlett Learning, 2019.

Chapter 2 Section 2.5
Chapter 4 Sections 4.1 – 4.10
Chapter 5 Sections 5.1 – 5.3
Chapter 6 Sections 6.1, 6.3, 6.4

BOOKS FOR REFERENCE

I.N, Herstein. *Topics in Algebra*. Wiley Publishing Company, 2017.

Lang, Serge. *Algebra*. Springer Publishers, 2004.

Strang, Gilbert. *Linear Algebra and its Applications*. Singapore: Thomas Asia Pvt. Ltd., 2003.

Stroud, K.A. and Dexter Booth. *Linear Algebra*. New York: Industrial Press, 2008.

WEB RESOURCES

<https://www.math.ucla.edu/~tao/resource/general/115a.3.02f/>

https://www.robots.ox.ac.uk/~cvrg/michaelmas2007/carl_cvrg.pdf

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/VL64												
	Course Title: VECTOR SPACES AND LINEAR TRANSFORMATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF COMPLEX ANALYSIS

CODE: 23MT/MC/CA65

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce the theory and properties for functions of a complex variable and its transformation for special functions.
- To realize the mapping in the complex plane through linear fractional transformations.
- To understand the concepts of analyticity and complex integration
- To apply appropriate techniques proper and definite integrals and generating power series
- To expose a fertile area of pure mathematics as a source of powerful technique that are widely applied in sciences and advanced Engineering mathematics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and define basic concepts in complex valued functions	K1
CO2	demonstrate understanding of different techniques to solve basic problems in complex analysis	K2
CO3	apply the fundamental principles and theoretical concepts of complex analysis in problem solving	K3
CO4	analyze various techniques to classify analytic functions and to solve problems	K4
CO5	evaluate and interpret mathematical arguments and proofs in complex analysis	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Analytic Functions 1.1 Functions of a Complex Variable 1.2 Continuity 1.3 Derivatives 1.4 Cauchy-Riemann Equations 1.5 Sufficient Conditions for Differentiability 1.6 Polar Coordinates 1.7 Analytic Functions 1.8 Harmonic Functions 1.9 Harmonic Conjugates	K1-K5	15	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Mapping by Elementary Functions 2.1 Linear Transformations 2.2 The Transformation $w = \frac{1}{z} \sin z$ 2.3 Linear Fractional Transformations Conformal Mapping 2.4 Preservation of Angles 2.5 Scale Factors Applications of Conformal Mapping 2.6 Two-dimensional Fluid Flow 2.7 The Stream Function 2.8 Flows around a Corner and around a Cylinder	K1-K5	15	CO1-5
3	Integrals 3.1 Cauchy-Goursat Theorem 3.2 Simply Connected Domains 3.3 Multiply Connected Domains 3.4 Cauchy Integral Formula 3.5 An Extension of the Cauchy Integral Formula 3.6 Some Consequences of the Extension 3.7 Liouville's Theorem and the Fundamental Theorem of Algebra 3.8 Maximum Modulus Principle	K1-K5	16	CO1-5
4	Series 4.1 The Three Types of Isolated Singular Points 4.2 Isolated Singular Points 4.3 Residues at Poles 4.4 Zeros of Analytic Functions 4.5 Zeros and Poles 4.6 Taylor Series 4.7 Laurent Series Elementary Functions 4.8 The Logarithmic Function 4.9 Branches and Derivatives of Logarithms	K1-K5	16	CO1-5
5	Residues and Poles 5.1 Cauchy's Residue Theorem 5.2 Residue at Infinity Applications of Residues 5.3 Evaluation of Improper Integrals 5.4 Definite Integrals Involving Sines and Cosines 5.5 Argument Principle 5.6 Rouché's Theorem	K1-K5	16	CO1-5

BOOK FOR STUDY

Brown J.W. and Churchill R.V., *Complex Variables and Applications*. McGraw Hill Publishers, 2022.

Chapter 2	Sections 13, 18, 19, 21 - 27
Chapter 3	Sections 31 - 33
Chapter 4	Sections 50 - 59
Chapter 5	Sections 62-64, 66-68
Chapter 6	Sections 74-76, 77 (concepts and problems only), 78-83
Chapter 7	Sections 85, 92-94
Chapter 8	Sections 96 – 100, 104, 105
Chapter 9	Sections 112, 113, 115
Chapter 10	Sections 124 - 126 (concepts and examples only)

BOOKS FOR REFERENCE

Arumugam S., A.T. Issac, and A. Somasundaram. *Complex Analysis*, Scitech Publishers, 2019.

Dennis G Zill, *First Course in Complex Analysis With Applications*, Jones and Bartlett Publishers, 2010.

Karunakaran, V., *Complex analysis*, Narosa Publishers, 2005.

Kreyszig, Erwin, *Advanced Engineering Mathematics*, Wiley India Pvt. Ltd., 2006.

Mathews John H. and Howell, Russell W., *Complex Analysis for Mathematics and Engineering*, Narosa Publishers, 2006.

WEB RESOURCES

http://www.malinc.se/math/geogebra/complex_numbersen.php

<https://www.open.edu/openlearn/science-maths-technology/introduction-complex-analysis/content-section-overview?active-tab=content-tab>

https://onlinecourses.nptel.ac.in/noc23_ma51/preview

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/CA65												
	Course Title: PRINCIPLES OF COMPLEX ANALYSIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF MECHANICS

CODE: 23MT/MC/PM65

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the concept of different forces and moments and their equilibrium with reference to a coordinate system
- To deal with parallel forces, couples and equilibrium of coplanar forces
- To widen the appreciation of the variety of phenomena covered by mechanics such as friction and demonstrate its application in real life
- To determine the moment of inertia of some standard bodies and discuss the equilibrium of a uniform cable hanging freely under its own weight
- To explain and analyze the motion of a particle in a resisting medium

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and define the motion and equilibrium of objects in different frames of references	K1
CO2	understand and recognize the different concepts of statics and dynamics applied in real life	K2
CO3	apply the mathematical abstractions to solve physical problems	K3
CO4	analyse mechanical problems as mathematical models and examine their behaviours and properties	K4
CO5	formulate and construct mechanical models and demonstrate its application to cater real life problems	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Forces acting on a Particle – Concurrent Forces 1.1 Forces 1.2 Types of Forces 1.3 Parallelogram Law of Forces 1.4 Triangle Law of Forces	K1- K5	15	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	1.5 Polygon Law of Forces 1.6 Lami's Theorem 1.7 Conditions of Equilibrium of any Number of Forces acting on a Particle			
2	Non-Concurrent Coplanar Forces 2.1 Moment of a Force about a Point and a Line 2.2 Parallel Forces 2.3 Varignon's Theorem 2.4 Couples 2.5 Properties of Couples 2.6 Coplanar Forces 2.7 Reduction of any Coplanar System of Forces 2.8 Conditions of Equilibrium 2.9 Equilibrium of Three Forces acting on a Rigid Body	K1- K5	17	CO1-5
3	Friction 3.1 Laws of Static Friction 3.2 Coefficient of Friction 3.3 Angle of Friction 3.4 Cone of Friction 3.5 Law of Kinetic Friction 3.6 Equilibrium of a Particle on an Inclined Plane 3.7 Condition for Sliding and Toppling	K1- K5	15	CO1-5
4	Equilibrium of Strings and Chains 4.1 Equilibrium of Strings and Chains 4.2 Common Catenary 4.3 Suspension Bridge Motion in a Resisting Medium 4.4 Motion in Resisting Medium in a Horizontal Line 4.5 Motion in Resisting Medium in a Vertical Line 4.6 Terminal Velocity 4.7 Motion in a Medium whose Resistance Varies as the Velocity	K1- K5	16	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	4.8 Motion in a Medium whose Resistance Varies as the Square of the Velocity			
5	Moment of Inertia 5.1 Moment of Inertia 5.2 Radius of Gyration 5.3 Perpendicular Axis Theorem 5.4 Moment of Inertia of Standard Bodies 5.5 Parallel Axis Theorem	K1- K5	15	CO1-5

BOOKS FOR STUDY

A. V. Dharmapadam, *Statics*. Chennai: S. Viswanathan, 2006.

Chapter 1 Sections 1.1 – 1.3

Chapter 2 Sections 2.1 – 2.10, 2.12 – 2.14

Chapter 3 Sections 3.1 – 3.8

Chapter 5 Section 5.1 – 5.3

M. D. Raisinghania, *Dynamics*. New Delhi: S. Chand, 2006.

Chapter 12 Sections 12.1 – 12.4

Chapter 14 Sections 14.1 – 14.4, 14.9

BOOKS FOR REFERENCE

A.V. Dharmapadam, *Dynamics*. Chennai: S. Viswanathan, 2006.

P Duraipandian, et al., *Mechanics*, New Delhi: S.Chand, 2018.

H S Hans, *Mechanics*. New Delhi: Tata McGraw, 2003.

S L Kakani, *Mechanics*. New Delhi: Viva, 2005.

Pandit Ashok S. *Mechanics*. New Delhi: Narosa, 2001.

P.R. Vittal, *Statics*. Margham Publications, Chennai, 2008.

WEB RESOURCES

<https://physics.gurumuda.net/moment-of-force-problems-and-solutions.html>

https://www.iit.edu/arc/workshops/pdfs/Moment_Inertia.pdf

<http://www.physicsclassroom.com/class/newtlaws/Lesson-2/Types-of-Forces>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/PM65												
	Course Title: PRINCIPLES OF MECHANICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

OPERATIONS RESEARCH

CODE: 23MT/ME/OR45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To formulate linear programming problem for simple mathematical models
- To develop mathematical skills to analyse and solve linear programming problems and network models arising from a wide range of applications
- To identify best techniques to solve a specific problem in linear programming model of OR
- To apply CPM and PERT techniques, to plan, schedule and control project activities
- To analyse the applications of different techniques learnt and to choose the appropriate technique for industry related problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic theory and concepts of operations research	K1
CO2	understand the operations research methodology to decision making	K2
CO3	apply the various techniques to solve LP problems	K3
CO4	analyse the various techniques and identify the best technique to solve LP problems	K4
CO5	evaluate the different models and explain its importance in real life problems	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate

UNIT	CONTENT	CL	Hrs.	CO
1	Linear Programming 1.1 Formulation of Linear Programming Problems 1.2 Graphical Method of Solution 1.3 Canonical and Standard Form 1.4 Simplex Method 1.5 Artificial Variable Technique: Big-M Method	K1-K5	14	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Duality in LPP 2.1 Formulation of Dual LPP 2.2 Characteristics of the Dual Problem 2.3 Primal-Dual Optimal Solutions Transportation Model 2.4 Introduction and Assumptions to the Model 2.5 Matrix Terminology 2.6 Formulation and Solution of Transportation Model 2.6.1 North West Corner Rule 2.6.2 Least Cost Method 2.6.3 Vogel's Approximation Method 2.6.4 MODI's Optimality Test 2.7 Variants in Transportation Problems	K1-K5	14	CO1-5
3	Assignment Model 3.1 Definition and Formulation of the Assignment Models 3.2 Mathematical Representation of Assignment Models 3.3 Comparison with Transportation Model 3.4 Hungarian Method for Solution of the Assignment Problems 3.5 Variants of the Assignment Problem 3.6 Travelling Salesman Problem Sequencing Models and Related Problems 3.7 Sequencing Problems – Assumptions in Sequencing Problems 3.8 Processing n Jobs through One Machine (SPT rule only) 3.9 Processing n Jobs through Two Machines	K1-K5	12	CO1-5
4	Theory of Games 4.1 Theory of Games 4.2 Characteristics of Games 4.3 Game Models – Definitions 4.4 Rules for Game Theory 4.4.1 Rule 1: Look for a Pure Strategy 4.4.2 Rule 2: Reduce Game by Dominance 4.4.3 Rule 3: Solve for a Mixed Strategy 4.5 Mixed Strategies (2×2 Games) – Mixed Strategies ($2 \times n$ games or $m \times 2$ games)	K1-K5	13	CO1-5
5	Network Analysis in Project Planning 5.1 Project – Project Planning – Project Scheduling – Project Controlling 5.2 W.B.S. – Basic Tools and Techniques of Project Management	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	5.3 Role of Network Techniques in Project Management 5.4 Network Logic-Numbering the Events 5.5 Activity on Node Diagram 5.6 Merits and Demerits of AON Diagram 5.7 Critical Path Method: Measure of Activity – Time Units - Critical Path Analysis - The Three Floats 5.8 PERT: Time Estimates - Frequency Distribution Curve for PERT			

BOOK FOR STUDY

Gupta, Premkumar, and Hira D.S. *Operations Research*. S.Chand and Company Ltd, 7th Edition, Reprint 2021.

Chapter 2 Section 2.6, 2.9 – 2.14, 2.16 – 2.17.1

Chapter 3 Section 3.1 – 3.6

Chapter 4 Section 4.1 – 4.3, 4.5 – 4.7, 4.10

Chapter 5 Section 5.1 – 5.4

Chapter 6 Section 6.1(exclude 6.1-3, 6.1-5)

Chapter 9 Section 9.10 – 9.19

Chapter 14 Section 14.1 – 14.13

BOOKS FOR REFERENCE

Bronson, Richard, and Govindaswami Naadimuthu. *Schaum's Outlines Operations Research* Tata McGraw Hill, 2011.

Panneerselvam, R. *Operations Research*. New Delhi : Prentice-hall, 2002.

Swarup, Kanti, et al. *Operations Research*. Sultan Chand, 2009.

S, Kalavathy. *Operations Research*. Vikas Publishing House, Fourth edition 2016

WEB RESOURCES

<https://www.hindawi.com/journals/aor/2018/8958393/>

https://link.springer.com/chapter/10.1007/978-3-030-94774-3_47

<https://www.frontiersin.org/research-topics/59628/real-world-applications-of-game-theory-and-optimization>

<https://prinsli.com/applications-of-pert-and-cpm-techniques/>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/OR45												
	Course Title: OPERATIONS RESEARCH												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH – I – MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT

CODE: 23MT/ME/PR45

CREDITS: 5

PREPARATION OF PROJECT

The project shall contain around 25 pages and shall be typed with double spacing.
The format is as follows:

1. Cover page shall contain
 - a) Title of the project
 - b) Project submitted at the elective level for the B.Sc. Degree course in the ____ semester
 - c) Name of the Candidate
Department number
 - d) Department of Mathematics
Stella Maris College (Autonomous), Chennai – 600 086
 - e) Month, Year
2. The project shall contain
 - a) Contents page
 - b) At least 2 chapters including an introductory chapter (comprising motivation, basic concepts needed / used in the project and outline of the project)
 - c) Conclusions / interpretations arrived at may be given at the end of each problem in the chapter concerned
 - d) List of figures / list of abbreviations (if needed) shall be given as an appendix
 - e) Bibliography shall be given in alphabetical order at the end in MLA format
3. Each candidate may prepare 3 copies of the project, one copy for her and submit 2 copies to the Head of the department before the commencement of the end semester examination.
4. The Controller of Examination is requested to arrange for the valuation of the Project as well as the conduct of the Viva – Voce at the college where the candidates take examinations, within two weeks of the last date of examination for B.Sc. degree. The panel of examiners will consist of an internal-external examiner and the Supervisor.

The guidelines for the Viva-Voce examiners would be that

- a) They will satisfy themselves that this is a work of the candidate as certified by the department
- b) The project is in the given format and
- c) The candidate has clear understanding of the concepts, discussed in the project.

The department should certify as follows:

This is to certify that the project in the broad area _____ titled _____ is submitted by _____ at the elective level for the degree of Bachelor of Science (Mathematics) during the year _____

*sd/
Head of the Department*

*sd/
Supervisor*

5. **PATTERN OF ASSESSMENT:** There will be double valuation for the project by the supervisor and an internal-external examiner who will conduct the viva – voce.

Project – 75 marks

Rubrics for evaluation	Marks	Cognitive Level
Key Facts, Theories, and Concepts	10	K1
Conceptual Clarity	10	K2
Methodology and Application of Knowledge	15	K3
Critical Analysis of the Data / Problem	25	K4
Assessing the Significance and Implications of the Study	10	K5
Original Contribution to the Field	5	K6

Viva Voce – 25 marks

Rubrics for evaluation	Marks	Cognitive Level
Clarity, Organization and Understanding of the Project	10	K2
Ability to Apply the Knowledge to Defend the Work	10	K3
Ability to Critically Evaluate and Demonstrate the Work and Respond to Questions	5	K5

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/PR45												
	Course Title: PROJECT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	2	2	3	3	3	2	2
CO 2	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3
High Correlation: 3				Moderate Correlation: 2					Low Correlation: 1				

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ELEMENTS OF SPACE SCIENCE

CODE: 23MT/ME/ES45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To explore the new vistas of the universe governed by mathematics
- To visualize application of mathematics in space science
- To comprehend the astronomical occurrences involving celestial entities.
- To grasp the creation of the cosmos conceptually.
- To classify types of stars and to illustrate star charting and gain insights into telescopes

COURSE LEARNING OUTCOMES

on successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain fundamental ideas in the field of astronomy	K1
CO2	acquire the knowledge of the concepts governed by mathematics to the universe	K2
CO3	showcase the principles governing the movement of celestial objects	K3
CO4	analyze and spot the celestial bodies in the sky by naked eye / binoculars / telescopes	K4
CO5	visualize the real time application of mathematics in space science	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Spherical Trigonometry 1.1 Spherical Trigonometry 1.2 Spherical Triangle- Polar Triangle -Definition 1.3 Some Properties of Spherical Triangles 1.4 Relations Between the Sides and Angles of a Spherical Triangle- Cosine, Sine, Cotangent Formula, Supplemental Cosine Formula, Five Parts Formula, Napier's Formula (Statements Only) 1.5 Napier's Analogies and Napier's Rules 1.6 Simple Problems Based on the Concepts Only	K1-K5	10	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Celestial Sphere, Diurnal Motion 2.1 Celestial Sphere, Diurnal Motion- Celestial Axis, Celestial Equator – Celestial Horizon, Celestial Meridian 2.2 Cardinal Points - Declination Circles – Verticals – Parallactic Angle 2.3 Annual Motion of the Sun – First Point of Aries and First Point of Libra – Equinoxes and Solstices – Colures 2.4 Celestial Co-ordinates 2.5 To Represent the Different System of Coordinates in the Same Figure 2.6 To Find the Relation between Right Ascension and Longitude of the Sun 2.7 To Find the Longitude of Sun on Any Day 2.8 Latitude of a Place 2.9 To Find the Right Ascension and Declination of a Body 2.10 To Find the Hour Angle of a Body at Rising Or Setting – Duration of Day Time 2.11 Morning and Evening Stars – Circumpolar Stars- Condition for Circumpolar Star	K1-K5	12	CO1-5
3	The Earth 3.1 Zones of Earth 3.2 Variations in Duration of Day and Night 3.3 Duration and Condition for Perpetual Day and Perpetual Night 3.4 Simple Problems Based on Above Concepts Only 3.5 Terrestrial Latitudes and Longitudes 3.6 Phenomena on Change of Latitudes and Longitudes 3.7 Date Line – Shape of Earth 3.8 Reduction of Latitude 3.9 Dip of Horizon – Expression and Effects of Dip 3.10 Twilight - Duration of Twilight – Civil, Nautical and Astronomical Twilights	K1-K5	14	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	Planetary Phenomena 3.11 Elongation of a Planet 3.12 Direct and Retrograde Motions of Planets 3.13 To Find Positions of two Planets when they are Stationary as Seen from each other			
4	Kepler's Laws 4.1 Kepler's Laws of Planetary Motion 4.2 To Calculate the Eccentricity of the Earth's Orbit around the Sun 4.3 Newton's Deduction from Kepler's Laws - Kepler's Third Law from Newtons Law of Gravitation 4.4 To Find the Mass of a Planet The Moon 4.5 Relation Between Sidereal and Synodic Months 4.6 Phases of Moon 4.7 Position of Moon at Rising and Setting 4.8 Lunar Day, Lunar Time and Surface Structure of Moon 4.9 Earth Shine - Tides Eclipse 4.10 Lunar Eclipse – Solar Eclipse 4.11 Condition for the Occurrence of Lunar and Solar Eclipse 4.12 Maximum and Minimum Number of Eclipses Near the Node of Lunar Orbit, Maximum Number of Eclipses in a Year 4.13 Eclipse Seasons - Effect of Refraction on a Lunar Eclipse – Importance of Total Solar Eclipse 4.14 Occultations	K1-K5	14	CO1-5
5	Time 5.1 Seasons and its Causes 5.2 Calendar 5.3 Conversion of Time 5.4 Simple Problems Based on the Concepts Only Telescope Setting & Sky Observation (5 Hours) Setting of Telescope Stars, Star Clusters and Constellations Moon and Planets Nebulae Eclipse (Depends on the Occurrence)	K1-K5	15	CO1-5

BOOKS FOR STUDY

S, Kumaravelu, Kumaravelu Susheela, *Astronomy*. Sivakasi: A. Bhaskara Selvan, 2005.

Chapter 1	Sections 3, 7, 8, 13, 14, 17, 20 – 25, 29, 32
Chapter 2	Sections 40 - 45, 49 - 53, 56, 57 - 64, 66, 68, 72 - 77, 80 - 82
Chapter 3	Sections 87 – 96, 106 - 109, 111, 112, 116
Chapter 6	Sections 146, 149, 153-155
Chapter 7	Sections 173 – 186
Chapter 12	Sections 229 – 241, 242, 247, 248, 252, 254, 255
Chapter 13	Sections 256 - 259, 262, 267, 272, 273, 276, 281 - 284
Chapter 14	Sections 285, 288, 289, 298 - 301

Scalzi, John, *the Rough Guide to Universe*. London: Rough Guides Ltd., 2003.

(only for Sky Observation)

BOOKS FOR REFERENCE

V.B, Bhatia, *Text Book of Astronomy and Astrophysics with elements of Cosmology*. New Delhi: Narosa, 2001.

G.V, Ramachandran, a *Text Book of Astronomy*. Madurai: Denobili, 1972.

Sidwick. *Introducing Astronomy*. London : Faber & Faber, 1957.

W.M, Smart, *Stellar Dynamics*. London : Cambridge, 1938.

W.M, Smart, *Some Famous Stars*. London : Orient Longman, 1956.

W.M, Smart a *Text Book on Spherical Astronomy*. London : Cambridge, 1997

WEB RESOURCES

<http://www.skyandtelescope.com>

<https://twitter.com/skyandtelescope/>

<http://www.livescience.com/space/>

<http://www.universetoday.com/>

http://www.sciencedaily.com/news/space_time/astronomy/

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Model presentation / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/ES45												
	Course Title: ELEMENTS OF SPACE SCIENCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

**NUMERICAL METHODS WITH PROGRAMS IN C++
(Theory and Practical)**

CODE: 23MT/ME/NM45

CREDITS: 5

L T P: 4 0 2

TOTAL TEACHING HOURS: 78

PREREQUISITES: Knowledge of C/C++ Programming

OBJECTIVES OF THE COURSE

- To obtain numerical solutions of algebraic and transcendental equations
- To find numerical solutions of system of linear equations and check the accuracy of the solution
- To describe various interpolating and extrapolating methods
- To solve initial and boundary value problems in differential equations using numerical methods
- To apply the various numerical method solutions to real life problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and recall the various concepts in numerical methods	K1
CO2	compare and relate the different numerical techniques available to solve real time problems	K2
CO3	apply numerical methods to obtain approximate solutions to mathematical problems and implement them in computer programming using C++ language	K3
CO4	analyse and evaluate the accuracy of numerical method solutions by interpreting the errors	K4
CO5	determine suitable numerical methods for various mathematical operations and tasks, such as interpolation, integration, the solution of linear and nonlinear equations, and the solution of differential equations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Numerical Solutions of Algebraic and Transcendental Equation 1.1 Bolzano's Bisection Method 1.2 Newton Raphson Method Iterative Methods of Solving Simultaneous Equations 1.3 Jacobi's Method 1.4 Gauss Seidel Iteration Method Practical 1.5 C++ Program to Find the Smallest Positive Root / the Largest Negative Root of the Equation $f(x) = 0$ by using the Bisection Method and Newton Raphson Method 1.6 C++ Program to Solve a System of Linear Algebraic Equations using Gauss Jacobi's Iteration Method and Gauss Siedel Method	K1-K5	10+6	CO1-5
2	Finite Differences 2.1 Forward Differences 2.2 Backward Differences 2.3 Central Differences Interpolation with Equal Intervals 2.4 Gregory-Newton's Forward and Backward Interpolation Formulae 2.5 Central Difference Interpolation Formulae – Gauss Forward and Backward Interpolation Formulae, Stirling's Interpolation Formula Interpolation with Unequal Intervals 2.6 Lagrange's Interpolation Formula for Unequal Intervals Practical 2.7 C++ Program to Interpolate and Extrapolate using the Given Pairs of Values of x and y by Newton's Forward and Backward Interpolation Formulae 2.8 C++ Program to Interpolate y using the Given Pairs of Values of x and y by Lagrange's Interpolation Formula	K1-K5	12+6	CO1-5

UNIT	CONTENT	CL	Hrs	CO
3	Numerical Differentiation 3.1 Values of the Derivatives of y based on Newton's Forward and Backward Interpolation Formulae, Stirling's Formula 3.2 Second Order Derivatives of $f(x)$ using Newton's Formulae - Maximum and Minimum Value of $f(x)$ Practical 3.3 C++ Program to Find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula	K1-K5	10+4	CO1-5
4	Numerical Integration 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule 4.3 Simpson's One Third Rule 4.4 Simpson's Three Eighth Rule Practical 4.5 C++ Program to Evaluate $\int_a^b f(x) dx$ Numerically using Trapezoidal and Simpson's rule	K1-K5	10+4	CO1-5
5	Numerical Solution to Ordinary Differential Equations 5.1 Numerical Solution of a Differential Equation 5.2 Euler's Method 5.3 Runge Kutta Method Practical 5.4 C++ Program to Solve the Differential Equation $\frac{dy}{dx} = f(x,y)$; $y(x_0) = y_0$ at the Pivotal Points by Euler's Method 5.5 C++ Program to Solve the Differential Equations $\frac{dy}{dx} = f(x,y)$; $y(x_0) = y_0$ at the Specified Pivotal Points by using Runge Kutta Method of the Fourth Order	K1-K5	10+6	CO1-5

BOOK FOR STUDY

Veerarajan T. and Ramachandran T., *Numerical Methods*. New Delhi: McGraw Hill, 2019.

Chapter 3	Sections 3.2, 3.4
Chapter 4	Section 4.5
Chapter 5	Sections 5.1 – 5.3
Chapter 6	Sections 6.1 – 6.7
Chapter 7	Section 7.6
Chapter 8	Sections 8.1– 8.3, 8.28
Chapter 10	Sections 10.1, 10.16

BOOKS FOR REFERENCE

B S Grewal, *Numerical Methods in Engineering & Science with Programs in C & C++*. Khanna Publishers, 9th Edition, 2010.

B D Gupta, *Numerical Analysis*. New Delhi : Konark Publishers Pvt. Ltd, 2000.

R S Kamala, et al. *Numerical Method*. Kumbakonam: Anuradha Pub., 2003.

P K Kandasamy, *et al. Numerical Methods*. New Delhi: S. Chand, 2006.

Saeed Akhtar Bhatti & Naeem Akhtar Bhatti, *A First Course in Numerical Analysis with C++*. Shaharyar Publishers, Lahore, 5th Edition, Reprint 2014.

S G Venkatachalapathy, *Calculus of Finite Differences and Numerical Analysis*. Chennai: Margham Pub., 2003.

WEB RESOURCES

<https://numericalmethodstutorials.readthedocs.io/en/latest/>

<https://www.sanfoundry.com/c-program-solve-linear-equation-one-variable/>

<https://nptel.ac.in/courses/122106033/>

<http://www.nr.com>

<http://www.bruceeckel.com>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Theory Pattern

Marks: 30

Duration: 50 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	2	$1 \times 2 = 2$ (2 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set))
C	K3	24	$3 \times 8 = 24$ (4 questions to be set)

Continuous Assessment: Practical Pattern Marks: 20 Duration: 40 minutes

Section	Cognitive Level	Marks	Pattern
D	K4	10	$1 \times 10 = 10$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Problem Solving / Assignment / Case Study / Mini Project/ Writing Algorithms

End-Semester Examination: Theory Pattern Marks: 60 Duration: 105 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	8	$8 \times 1 = 8$ (8 MCQ to be set))
C	K3	48	$6 \times 8 = 48$ (8 questions to be set)

End-Semester Examination: Practical Pattern Marks: 40 Duration: 75 minutes

Section	Cognitive Level	Marks	Pattern
D	K4	20	$1 \times 20 = 20$ (2 questions to be set)
E	K5	20	$1 \times 20 = 20$ (2 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/NM45												
	Course Title: NUMERICAL METHODS WITH PROGRAMS IN C++												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

**PROGRAMMING IN C++
(Theory and Practical)**

CODE: 23MT/ME/CP45

CREDITS: 5

L T P: 2 0 3

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand about object-oriented languages and their applications
- To introduce basic concepts of C++ language
- To provide knowledge about various conversions
- To enlighten the various inheritance system
- To impart knowledge on files and exception handling

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall various concepts relating to languages and applications	K1
CO2	understanding various functions and tools of C++	K2
CO3	apply appropriate tools to solve various problems	K3
CO4	analyse different techniques in programming	K4
CO5	assess suitable areas of application	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Basics of C++ 1.1 Introduction to C++ 1.2 Tokens, Keywords, Identifiers, Variables, Operators, Manipulators 1.3 Data Types - Expressions and Control Structures in C++ 1.4 Simple C++ Programs	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Functions in C++ 2.1 Main Function 2.2 Function Prototyping 2.3 Parameters Passing in Functions 2.4 Values Return by Functions 2.5 Inline Functions 2.6 Friend and Virtual Functions 2.7 Math Library Functions	K1-K6	13	CO1-5
3	Classes and Objects 3.1 Constructors and Destructors 3.2 Operator Overloading and Type Conversions 3.3 Type of Constructors 3.4 Function, Definition - Function Overloading – Function Overriding	K1-K6	13	CO1-5
4	Inheritance and Pointers 4.1 Single Inheritance 4.2 Multilevel Inheritance 4.3 Multiple Inheritance 4.4 Hierarchical Inheritance 4.5 Hybrid Inheritance 4.6 Pointers 4.7 Virtual Functions and Polymorphism 4.8 Managing Console I/O Operations	K1-K6	14	CO1-5
5	Working with Files 5.1 Classes for File Stream Operations 5.2 Opening and Closing a File 5.3 End-of-file Deduction 5.4 File Pointers 5.5 Updating a File 5.6 Error Handling during File Operations 5.7 Command line Arguments	K1-K6	13	CO1-5

BOOK FOR STUDY

E, Balagurusamy. *Object Oriented Programming with C++*. McGraw-Hill, Eighth Edition, 2020.

BOOKS FOR REFERENCE

B, Chandra. *Object Oriented Programming using C++*. New Delhi: Narosa Publishers, 2002.

Gilberg, Richard F. *Data Structures : A Pseudocode Approach with C++*. USA: Brooks/Cole, 2001.

S, Holzner. *C++ Black Book*. New Delhi: Dreamtech Press, 2000.

Kutti, N.S. Padhye, P.Y. *Data Structures in C++*. New Delhi: Prentice-Hall of India Pvt. Ltd, 2003.

Weiss, M. A. *Data Structures and Algorithm Analysis in C++*. Fourth Edition, USA: Pearson Education Inc., 2014.

WEB RESOURCES

<https://www.cplusplus.com/doc/tutorial/>

<https://www.programiz.com/cpp-programming>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Theory Pattern

Section	Cognitive Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (5 MCQ to be set)
B	K2	5	$5 \times 1 = 5$ (5 MCQ to be set)
C	K4	5	$1 \times 5 = 5$ (2 questions to be set)

Practical Pattern

Section	Cognitive Level	Marks	Pattern
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K5	10	$1 \times 10 = 10$ (2 questions to be set)
E	K6	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100

Duration: 3 hours

(Question paper to be prepared jointly by one course teacher and one internal–external examiner)

Theory Pattern

Section	Cognitive Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (10 MCQ to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K4	10	$2 \times 5 = 10$ (4 questions to be set)

Practical Pattern

Section	Cognitive Level	Marks	Pattern
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K5	20	$2 \times 10 = 20$ (4 questions to be set)
E	K6	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/CP45												
	Course Title: PROGRAMMING IN C++												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the department of Mathematics
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SYLLABUS

(Effective from the academic year 2023-2024)

THE FASCINATING WORLD OF MATHEMATICS

CODE: 23MT/GE/WM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce some Indian Mathematicians and their contributions
- To understand Mathematics through puzzles and paradoxes
- To cite a few real life applications through Mathematical models

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge of some fascinating aspects of mathematics	K1
CO2	understand the various interesting facets of Mathematics	K2
CO3	demonstrate solutions to real world problems using Mathematical approach	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs.	CO
1	Some Indian Contributors to Mathematics 1.1 Baudhayana 1.2 Aryabhata 1.3 Bhaskara I 1.4 Shridhara 1.5 Bhaskara II 1.6 Srinivasa Ramanujan 1.7 A.A. Krishnaswami Ayyangar 1.8 Ramaswamy S. Vaidyanathaswamy	K1	10	CO1-3

UNIT	CONTENT	CL	Hrs.	CO
	1.9 Alladi Ramakrishnan 1.10 P.C. Mahalanobis 1.11 C. R. Rao 1.12 Harish Chandra 1.13 C. S. Seshadri 1.14 Sakunthala Devi 1.15 S. R. Srinivasa Varadhan 1.16 R. Parimala 1.17 Other Contemporary Mathematician			
2	Mathematical Puzzles and Paradoxes 2.1 Magic Squares 2.2 Sleeping Beauty Puzzle 2.3 Monty Hall Probability Puzzle 2.4 Crossword 2.5 Number Puzzles by Shakuntala Devi 2.6 Missing Square Paradox 2.7 Potato Paradox 2.8 Zeno's Paradox 2.9 Necktie Paradox 2.10 Three Prisoner's Paradox 2.11 Boy or Girl Paradox 2.12 Sorites Paradox 2.13 Elevator Paradox 2.14 Barber's Paradox	K2	9	CO1-3
3	Project 3.1 Mathematical Model – Applications of Mathematics in real life	K3	7	CO1-3

BOOKS FOR STUDY AND REFERENCE

Rooney, Anne. *The Story of Mathematics*, China: Arcturus, 2008.

Joseph, George Gheverghese. *The Crest of the Peacock Non-European Roots of Mathematics*, Chennai: East-West, 1990.

J.N, Kapur. *IXOHXI*, New Delhi: Mathematical Sciences Trust Society, 1998.

J.N, Kapur. *Mathematical Games for All*, New Delhi: Mathematical Sciences Trust Society, 1998.

J.N,Kapur. *Some Eminent Indian Mathematicians of Twentieth Century*, New Delhi: Mathematical Sciences Trust Society, 1994.

Perelman, Ye.I.P. *Mathematics can be Fun*, Mir Publishers Moscow: 1973, English Translation, 1985.

Devi, Shakuntala. *Puzzle to Puzzle You*, New Delhi: Orient Paperbacks, 1976, 45th Edition, 2014.

Devi, Shakuntala. *Figuring – The Joy of Numbers*, New Delhi: Orient Paperbacks, 1986.

WEB RESOURCE

www.samloyd.com

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Problem Solving / Assignment

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

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SYLLABUS

(Effective from the academic year 2023-2024)

CELESTIAL WONDERS

CODE: 23MT/GE/CW22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To give insight into astronomy and familiarize with the recent events in space
- To introduce the features of planet, sun, moon and the stellar universe
- To understand and explain the movements of the sun, moon and planets, as viewed from earth

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire some basic knowledge in astronomy	K1
CO2	classify the reasons behind the celestial events	K2
CO3	examine and critique the expansive and dynamic nature of our universe	K3
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Celestial Sphere and Diurnal Motion 1.1 Celestial Sphere 1.2 Diurnal Motion – Celestial Axis and Equator 1.3 Celestial Horizon 1.4 Zenith and Nadir - Celestial Meridian 1.5 Cardinal Points - Different Hemispheres 1.6 Visible and Invisible Hemispheres 1.7 Declination Circles, Verticals 1.8 Rising and Setting 1.9 Transit or Culmination 1.10 Annual Motion of the Sun – First point of Aries, First point of Libra, Equinoxes and solstices 1.11 Circumpolar Stars	K1- K3	9	CO1-3

UNIT	CONTENT	CL	Hrs	CO
2	The Stellar Universe 2.1 The Milky Way Galaxy 2.2 Zodiacal Constellations 2.3 Stars – Double Stars, Multiple Stars and Variable Stars Planetary Phenomena 2.4 Direct Motion and Retrograde Motion 2.5 Stationary Points The Solar System 2.6 Sun, Planets, Comets, Meteors and Meteoroids 2.7 Space Probes	K1- K3	8	CO1-3
3	Earth, Moon and Sky 3.1 Elongation - Conjunction, Opposition, Quadratures 3.2 Daily Motion of the Moon - Age of Moon 3.3 Phase of Moon (definition only) - Successive Phases of Moon 3.4 Moon Exhibits the Same Side to the Earth 3.5 Surface Structure of Moon 3.6 The Tides - Tsunami 3.7 Types of Eclipses – Lunar and Solar Eclipse (no derivations), Duration of a Solar Eclipse 3.8 Importance of Total Solar Eclipses 3.9 Comparison of Solar and Lunar Eclipses Observation and Visit to Planetarium Observation in College: Sun spots, planets, meteors, constellations, moon and its craters, comets and eclipses	K1- K3	9	CO1-3

BOOKS FOR STUDY

Kumaravelu, S. and Susheela Kumaravelu, *Astronomy*. Sivakasi: A.Bhaskara Selvan, Revised and Enlarged Edition 2005, Reprint 2009.

Bhatia, V.B, *Text Book of Astronomy and Astrophysics with elements of Cosmology*. New Delhi: Narosa, 2001.

WEB RESOURCES

<http://www.skyandtelescope.com>

<http://www.ndtv.com/topic/national-aeronautics-and-space-administration>

<http://www.nasa.gov/news/index.html>

<http://www.livescience.com/space/>

<http://www.universetoday.com/>

<http://abcnews.go.com/Technology/Space>

http://www.sciencedaily.com/news/space_time/astronomy/

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:		Total Marks: 25	Duration: 45 minutes
Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Assignment / Exhibition / Case Study / Mini Project/Report on Observations

No End-Semester Examination

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SYLLABUS

(Effective from the academic year 2023-2024)

AUTOMATA

CODE: 23MT/GE/AM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To acquaint students with the fundamental principles and underpinnings of computational theory
- To present an abstract computer model while providing an overview of how Automata theory is applied in various contexts
- To equip students with a deep understanding of formal languages and computational models, fostering their ability to analyze and solve complex problems in mathematics and computer science

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	comprehend the relationship between languages and computational processes	K1
CO2	assess the computational capabilities of machines	K2
CO3	examine the practical applications of automata	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to the Theory of Computation 1.1 Mathematical Preliminaries and Notations, Sets, Functions and Relations 1.2 Graphs and Trees, Proof Techniques 1.3 Three Basic Concepts 1.4 Languages, Grammars and Automata 1.5 Some Applications	K1- K3	10	CO1-3

UNIT	CONTENT	CL	Hrs	CO
	Finite Automata 1.6 Deterministic Finite Accepters 1.7 Deterministic Accepters and Transition Graphs 1.8 Languages and Dfas, Regular Languages 1.9 Nondeterministic Finite Accepters, Definition of a NDA 1.10 Why Nondeterminism?			
2	Regular Languages and Regular Grammars 2.1 Regular Expressions 2.2 Languages Associated with RE 2.3 RE Denote RL , RE for RL 2.4 RG, Right- and Left-Linear Grammars Context Free Languages 2.5 Context Free Grammar 2.6 Left Most and Right Most Derivations	K1- K3	8	CO1-3
3	Project 3.1 Application of Finite Automata and Formal Language 3.2 Design of Vending Machine 3.3 Document Language Design 3.4 Cryptography 3.5 DNA Computing	K1- K3	8	CO1-3

BOOK FOR STUDY

Linz, Peter. *An Introduction to Formal Languages and Automata*, New Delhi: Narosa Publishing House, 3rd Edition, 2005.

BOOKS FOR REFERENCE

Behera, Nayak and Pallnayakan. *Formal Languages and Automata Theory*. New Delhi: Vikas, 2014.

Krithivasan, Kamala. and Rama, R. *Introduction to Formal Languages, Automata Theory and Computation*, Chennai: Pearson, 2009.

Siromoney, Rani. *Formal Languages and Automata*. Madras: The Christian Literature Society, 1974.

WEB RESOURCE

<http://www.iitg.ernet.in/dgoswami/Flat-Notes.pdf>
<https://www.ics.uci.edu/~goodrich/teach/cs162/notes/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Assignment / Exhibition / Case Study / Mini Project/Report on Observations

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the department of Mathematics
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SYLLABUS

(Effective from the academic year 2023-2024)

BASIC MATHEMATICS

CODE: 23MT/GE/BM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts
- To employ different techniques to solve problems pertaining to matrices, polynomials, differentiation and integration
- To promote problem solving skills and quantitative analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and define the basic mathematical concepts on matrices, differentiation and integration	K1
CO2	understand the concepts relating to matrices, polynomials, differentiation and integration	K2
CO3	utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Matrices 1.1 Matrices-Elementary Concepts 1.2 Evaluation of Determinant of a Square Matrix 1.3 Types of Matrices-Sum and Product of Matrices 1.4 Inverse of a Square Matrix of Order 2 and Order 3 1.5 Rank of Matrix	K1- K3	8	CO1-3

UNIT	CONTENT	CL	Hrs	CO
2	Theory of Equations 2.1 Relation between Roots and Coefficients 2.2 Solution of Equations under Simple given Conditions 2.3 Formation and Solution of Equations with Imaginary and Surd Roots	K1- K3	10	CO1-3
3	Differential and Integral Calculus 3.1 Differential Coefficient of $f(x)$ with respect to x - rules for Differentiation 3.2 Differential Coefficient of Standard Functions 3.3 Integration as the inverse process of Differentiation 3.4 Integration of Standard Functions	K1- K3	8	CO1-3

BOOKS FOR STUDY

T.K, Manicavachgam Pillay, *et al.*, *Algebra Vol. II*. Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2006.

T.K, Manicavachgam Pillay, *et al.*, *Algebra Vol. I*. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.

S, Narayanan and Manicavachgam Pillay T.K. *Ancillary Mathematics: Book II*.

Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2004 .

S, Narayanan, *et al.*, *Ancillary Mathematics Vol. I* Chennai : S.Vishwanthan printers and publishers Pvt. Ltd., 2007.

M. K, Venkataraman and Manorama, *Classical Algebra and Trigonometry*. Chennai: Sivasankar, 2001

WEB RESOURCES

<https://ncert.nic.in/textbook/pdf/lemh103.pdf>

https://www.youtube.com/watch?v=B_sj1gWR2oE

https://www.youtube.com/watch?v=WrmwQWtQ5Nc&list=PLbmRGZKU9l1zKYY6_E5WOMd9Zv1CQAvZi

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Assignment / Exhibition / Case Study / Mini Project/Report on Observations

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the department of Mathematics
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SYLLABUS

(Effective from the academic year 2023-2024)

RESOURCE MANAGEMENT TECHNIQUES

CODE: 23MT/GE/RT22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To create awareness about optimization in utilization of resources
- To solve transportation and assignment problems using different methods
- To understand operations, research techniques used for planning, scheduling and controlling large and complex projects

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic terminology and concepts used in operation research, transportation, assignment and in networks	K1
CO2	understand the formulation of Mathematical problem in transportation, assignment problem and project network	K2
CO3	apply transportation problem, assignment problem and critical path problem to real world situation	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs.	CO
1	Introduction to Operations Research (OR) 1.1 Introduction 1.2 Role of OR in Business, Management and Engineering 1.3 Classification of Models 1.4 Some Characteristics of a Good Model 1.5 Principles of Modelling	K1-K3	9	CO1-3

UNIT	CONTENT	CL	Hrs.	CO
	1.6 General Methods for Solving OR Models 1.7 Main Phases of OR 1.8 Limitation Transportation Model 1.9 Introduction 1.10 Standard Transportation Table 1.11 Method for Finding Initial Basic Feasible Solution- North West Corner Rule, Least Cost Method and Vogel's Approximation Method			
2	Assignment Problem 2.1 Introduction 2.2 Hungarian Method 2.3 Unbalanced Assignment Models 2.4 Traveling Salesman Problem	K1-K3	8	CO1-3
3	Project Network Analysis 3.1 Introduction 3.2 Basic Terminologies 3.3 Rules for constructing a Project Network 3.4 Network Computations - CPM	K1-K3	9	CO1-3

BOOK FOR STUDY

V, Sundaresan et al. *Resource Management Techniques*. A. R. Publications. 2002.

Chapter 1 Sections 1.1 – 1.9
Chapter 7 Sections 7.1
Chapter 8 Sections 8.1, 8.5, 8.6, 8.9
Chapter 15 Sections 15.1 – 15.4

BOOKS FOR REFERENCE

S, Kalavathy. *Operations Research*. Fourth Edition, Vikas, 2013.

Gupta, Premkumar and Hira D.S. *Operations Research*. S Chand, 2011.

V.K, Kapoor. *Operations Research (Quantitative Techniques for Management)*. Sultan Chand, 2013.

R, Panneerselvam. *Operations Research*. Prentice-hall, 2002.

Swarup Kanti, et al. *Operations Research*. Sultan Chand, 2009.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Problem Solving / Assignment

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

COMBINATORICS

CODE: 23MT/UI/CO23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To equip students with the foundational knowledge and techniques useful for counting
- To introduce generalized permutations and combinations and the inclusion-exclusion principle
- To provide opportunities for students to apply combinatorial techniques to solve problems in computer science, statistics and operations research
- To acquaint the knowledge of generating functions as a powerful tool for solving combinatorial problems
- To foster problem-solving skills to approach combinatorial problems critically

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- recall the foundational knowledge and techniques for counting objects and events systematically
- understand the important notions of combinatorics and their applications
- apply various techniques for combinatorial mathematics to tackle complex counting problems
- analyze different combinatorial structures and implement their applications in combinatorial analysis
- examine various large and complex real world problems using clear and logical combinatorial arguments to support their solutions

Unit 1

Basic Tools

1.1 The Sum Rule and the Product Rule

1.2 Permutations and Combinations

1.3 The Pigeonhole Principle

1.4 Problems on the Sum Rule and Product Rule

1.5 Problems on Permutations and Combinations

1.6 Problems on the Pigeonhole Principle

Unit 2

Further Basic Tools

2.1 Generalized Permutations and Combinations

2.2 Sequence and Selections

2.3 The Inclusion – Exclusion Principle

Unit 3

Problems on Generalized Permutations, Combinations and the Inclusion-Exclusion Principle

- 3.1 Problems on Generalized Permutations and Combinations
- 3.2 Problems on Sequence and Selections
- 3.3 Problems on the Inclusion-Exclusion Principle
- 3.4 Problems on the Permanent of a Matrix

Unit 4

Generating Functions and Recurrence Relations

- 4.1 Ordinary Generating Functions
- 4.2 Partitions of a Positive Integer
- 4.3 Recurrence Relations

Unit 5

Problems on Generating Functions and Recurrence Relations

- 5.1 Problems on Ordinary Generating Functions
- 5.2 Problems on Partitions of a Positive Integer
- 5.3 Problems on Recurrence Relation

BOOK FOR STUDY

V.K, Balakrishnan. *Combinatorics including concepts of Graph Theory*, Schaum's Outlines, New Delhi: Tata McGraw-Hill Publishing Company, 2005.

BOOKS FOR REFERENCE

D.S, Chandrasekharaiah. *Graph Theory and Combinatorics*, Chennai: Prism, 2005.

Cohen, Daniel I.A. *Basic Techniques of Combinatorial Theory*, New York: John Wiley Publishers, 1978

V, Krishnamurthy. *Combinatorics – Theory and Applications*, New Delhi: Affiliated East West Press, 1989.

PATTERN OF ASSESSMENT

No Unit should be left out.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A: $10 \times 2 = 20$ (Twelve questions to be set selecting at least two from each unit)

Section B: $5 \times 8 = 40$ (Seven questions to be set without omitting any unit)

Section C: $2 \times 20 = 40$ (Three questions to be set without omitting any unit)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.Sc. DEGREE
Branch III PHYSICS
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086
DEPARTMENT OF PHYSICS

PROGRAMME DESCRIPTION

The goal of the undergraduate programme in Physics is to support and encourage a basic knowledge in the discipline of Physics including phenomenology, theories and techniques, concepts and general principles. It strongly instils in students the ability to ask questions pertaining to the laws of Physics and to obtain solutions by use of qualitative and quantitative reasoning and experimental investigation. The programme trains students to develop attributes like appreciation of the discipline of Physics, curiosity, creativity, reasoned scepticism and understanding links of Physics to other disciplines and to societal issues. The course curriculum, field trips and the opportunities exposed to students to conduct individual research provides them a versatile development and promote them towards higher education and research in physics.

VISION OF THE DEPARTMENT

- To create an eagerness for lifetime learning among the students and an ability to put their learning into practice.
- To develop knowledge in the subject and to create an interest and passion towards Physics.
- To facilitate conceptual understanding of the content through experiential learning.
- To offer courses that will expose students to a broad spectrum of knowledge and enhance their scientific curiosity and thinking.

MISSION OF THE DEPARTMENT

- To enable the students to be self-reliant in order to take up challenges with confidence.
- To motivate students towards pursuing higher education and a career in Physics.
- To engage the students in quality scientific research so as to respond to the societal needs and demands.

PROGRAMME SPECIFIC LEARNING OUTCOMES

On successful completion of the B.Sc. Physics Programme, the students will be able to

PSO1	demonstrate knowledge and understanding of the core areas of Physics and utilizing mathematical concepts for investigation of data and deriving scientific conclusions.
PSO2	exhibit curiosity, reasoning, critical and creative thinking in applying appropriate physical principles and procedures to solve a varied range of complex and ambiguous real-time problems. Promote experimental learning and use of scientific equipment to observe and analyse data and handling errors in measurement
PSO3	develop skills for productive review of literature, effective communication of complex scientific information and collaboration with diverse intellectuals from academia and industry.
PSO4	obtain analytical, computational, and technical skills that would enable them to undertake higher education in Physics, research and development and successful careers in the industry.
PSO5	recognize and appreciate the importance of the discipline of Physics and its application in tackling formidable global challenges such as climate change, environmental pollution, public health, food security and sustainable energy production.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Sc. Physics 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III														
Major Core	4	5	3	4	3	4	4	5	3	4	3	4	20	26
			4	5	4	5			4	5	4	5	16	20
									4	5	4	5	8	10
Major Core Practical	2	3	2	3	2	3	2	3	2	3	2	3	12	18
									2	3	2	3	4	6
Allied Core	5	5	5	5	3	3	3	3					16	16
Allied Core Practical					2	3	2	3					4	6
	Offered by MT dept.				Offered by CH dept.									
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	118
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3					3	3					6	6
Soft Skills (EL)	3	3											3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library													0	0
Mentoring		1		1									0	2
											Total		4	4
Total	26	30	25	30	24	30	25	30	24	30	25	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH III-PHYSICS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23PH/MC/PS14	Properties of Matter and Sound	4	4	1	0	3	50	50	100	
23PH/MC/P112	Experimental Physics I	2	0	0	3	3	50	50	100	
Allied Core offered to students of Mathematics by Dept. of Physics										
23PH/AC/PM13	Physics for Mathematics I	3	3	0	0	3	50	50	100	
23PH/AC/P112	Physics Practical I	2	0	0	3	3	50	50	100	
23PH/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
23EL/SS/PD13	Life Skills:Personality Development	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education									
Allied Core offered to students of Physics by Dept. of Mathematics										
23MT/AC/MP15	Mathematics for Physics I	5	5	0	0	3	50	50	100	
SEMESTER-II										
23PH/MC/TS23	Thermal Physics and Statistical Mechanics	3	3	1	0	3	50	50	100	
23PH/MC/ME24	Mechanics	4	4	1	0	3	50	50	100	
23PH/MC/P222	Experimental Physics II	2	0	0	3	3	50	50	100	
Allied Core offered to students of Mathematics by Dept. of Physics										
23PH/AC/PM23	Physics for Mathematics II	3	3	0	0	3	50	50	100	
23PH/AC/P222	Physics Practical II	2	0	0	3	3	50	50	100	
23PH/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
	General Elective I / Basic Tamil I									
Allied Core offered to students of Physics by Dept. of Mathematics										
23MT/AC/MP25	Mathematics for Physics II	5	5	0	0	3	50	50	100	
SEMESTER-III										
23PH/MC/EL33	Electronics I	3	3	1	0	3	50	50	100	
23PH/MC/OS34	Optics and Spectroscopy	4	4	1	0	3	50	50	100	
23PH/MC/P332	Experimental Physics III	2	0	0	3	3	50	50	100	
Allied Core offered to students of Chemistry by Dept. of Physics										
23PH/AC/PC33	Physics for Chemistry I	3	3	0	0	3	50	50	100	
23PH/AC/P132	Physics Practical I	2	0	0	3	3	50	50	100	
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100	
	General Elective II / Basic Tamil II									
Allied Core offered to students of Physics by Dept. of Chemistry										
23CH/AC/FC33	Fundamentals of Chemistry I	3	3	0	0	3	50	50	100	
23CH/AC/P132	Biochemistry Practical I	2	0	0	3	3	50	50	100	
SEMESTER-IV										
23PH/MC/MP44	Mathematical Physics	4	4	1	0	3	50	50	100	
23PH/MC/P442	Experimental Physics IV	2	0	0	3	3	50	50	100	
Allied Core offered to students of Chemistry by Dept. of Physics										
23PH/AC/PC43	Physics for Chemistry II	3	3	0	0	3	50	50	100	
23PH/AC/P242	Physics Practical II	2	0	0	3	3	50	50	100	
23PH/SS/ PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH III-PHYSICS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
	Major Elective I									
Allied Core offered to students of Physics by Dept. of Chemistry										
23CH/AC/FC43	Fundamentals of Chemistry II	3	3	0	0	3	50	50	100	
23CH/AC/P342	General Chemistry Practical	2	0	0	3	3	50	50	100	
SEMESTER-V										
23PH/MC/MM53	Microprocessors and Microcontrollers	3	3	1	0	3	50	50	100	
23PH/MC/SS54	Solid State Physics	4	4	1	0	3	50	50	100	
23PH/MC/EM54	Electricity, Magnetism and Electromagnetism	4	4	1	0	3	50	50	100	
23PH/MC/P552	Experimental Physics V	2	0	0	3	3	50	50	100	
23PH/MC/P652	Experimental Physics VI	2	0	0	3	3	50	50	100	
	General Elective III									
	SAP / SL									
Interdisciplinary Core (PH and EC) to students of Physics and Economics										
23ID/IC/RE55	Renewable Energy and Energy Economics	5	5	1	0	3	50	50	100	
SEMESTER-VI										
23PH/MC/EL63	Electronics II	3	3	1	0	3	50	50	100	
23PH/MC/AN64	Atomic and Nuclear Physics	4	4	1	0	3	50	50	100	
23PH/MC/QR64	Quantum Mechanics and Relativity	4	4	1	0	3	50	50	100	
23PH/MC/P762	Experimental Physics VII	2	0	0	3	3	50	50	100	
23PH/MC/P862	Experimental Physics VIII	2	0	0	3	3	50	50	100	
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100	
	Major Elective II									
	General Elective IV									
Major Electives										
23PH/ME/NN45	Nanoscience and Nanotechnology	5	4	1	0	3	50	50	100	
23PH/ME/LP45	Laser Physics	5	4	1	0	3	50	50	100	
23PH/ME/CS45	Communication Systems	5	4	1	0	3	50	50	100	
23PH/ME/AA45	Astronomy and Astrophysics	5	4	1	0	3	50	50	100	
23PH/ME/MI45	Medical Instrumentation	5	4	1	0	3	50	50	100	
23PH/ME/PR45	Project	5	0	0	5	-	50	50	100	
General Electives										
23PH/GE/BP22	Basic Principles of Physics	2	1	0	1	-	50	-	100	
23PH/GE/HE22	Home Electrical Installations	2	1	0	1	-	50	-	100	
23PH/GE/EP22	Energy Physics	2	2	0	0	-	50	-	100	
23PH/GE/WL22	Wireless Communication	2	2	0	0	-	50	-	100	
The Department will offer one Social Awareness Course										
Social Awareness Courses										
23PH/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100	
23PH/SA/CR52	Child Rights	2	2	0	0	-	50	-	100	
23PH/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**B.Sc. DEGREE : BRANCH III-PHYSICS****COURSES OF STUDY****(Effective from the Academic Year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23PH/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23PH/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23PH/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23PH/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23PH/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23PH/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Electives									
23PH/UI/GP23	Geophysics	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

PROPERTIES OF MATTER AND SOUND

CODE: 23PH/MC/PS14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart the knowledge of basic principles and theories relating to properties of materials and sound.
- To enable the students to understand the behaviour of materials and the fundamental concepts of sound production, propagation, and its applications.
- To guide the students in applying the concepts of elasticity, surface tension, viscosity, and acoustics in real life situations.
- To equip the students to derive mathematical expressions related to material behaviour and sound wave propagation.
- To facilitate the students in solving and justifying solutions related to problems in properties of solids, fluids, behavior of waves and acoustics.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on Stress and Strain, three moduli of elasticity, bending of beams, fundamental principles and theories of surface tension and viscosity of liquids, characteristics of wave motion, and the basic concepts of acoustics and ultrasonics.	K1
CO2	describe the elastic behaviour of solids, the physical properties of liquids that impact fluid motion, and how sound travels through a medium.	K2
CO3	apply the theoretical concepts to determine bending moment, elevation and depression in a beam due to different types of loading, optimum reverberation time and illustrate real life examples for surface tension, viscosity of fluids, vibrations in strings, and Doppler effect in Sound.	K3
CO4	deduce expressions related to elasticity of solids, fluid dynamics, simple harmonic motion, acoustics and ultrasonics.	K4
CO5	evaluate and solve problems related to properties of solids and fluids, behaviour of waves, simple harmonic oscillators, and designing an acoustically good auditorium.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Elasticity 1.1 Elasticity – Stress – Strain – Hooke’s law - different moduli of elasticity – Poisson’s ratio - relation between the elastic moduli - bending of beams – expression for the bending moment – depression of the loaded end of a cantilever – depression at the midpoint of a beam loaded at the middle (non-uniform bending) - experiment to determine Young’s modulus ‘E’(using pin and microscope) - elevation at the midpoint of a beam (uniform bending) - experiment to determine Young’s modulus ‘E’ (using scale and telescope). 1.2 Torsion - expression for torque per unit twist - work done in twisting a wire - torsional oscillation of a body – expression for time period – determination of rigidity modulus ‘G’ by torsion pendulum (Dynamic torsion method).	K1 – K5	13	1-5
2	Surface tension 2.1 Surface tension - explanation of surface tension based on molecular theory - work done in increasing the surface area - work done in blowing a bubble - angle of contact - pressure difference across a liquid surface – excess pressure inside a curved liquid surface 2.2 Experimental determination of surface tension and interfacial surface tension by drop weight method – Jaeger’s method - Quincke’s method - Variation of surface tension with temperature	K1 – K5	13	1-5
3	Fluid Dynamics 3.1 Viscosity - coefficient of viscosity - Poiseuille’s formula for the flow of liquid through a capillary tube – corrections to Poiseuille’s formula - Poiseuille’s method for determining coefficient of viscosity of a liquid (variable pressure head) – Terminal velocity and Stoke’s formula – Stoke’s method for the coefficient of viscosity of highly viscous liquids – Ostwald’s viscometer - variation of viscosity with temperature and pressure 3.2 Fluid motion - Stream line flow and turbulent flow - critical velocity - Reynold’s number - Euler’s continuity equation for unidirectional flow – Bernoulli’s principle and equation	K1 – K5	13	1-5
4	Waves and Oscillations 4.1 Wave motion – Characteristics of wave motion – longitudinal and transverse wave motion – Simple Harmonic Motion - Equation of a simple harmonic wave – differential equation of wave motion – Composition of two SHM of equal periods acting at right angles – Lissajous figures and its uses	K1 – K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
	4.2 Velocity and frequency of transverse waves along stretched strings - Law of transverse vibration of strings – Harmonics – Melde's experiment – Standing waves – Beats – Doppler effect			
5	Acoustics and Ultrasonics 5.1 Acoustics – Reverberation – Sabine's reverberation formula – determination of absorption coefficient – factors affecting the acoustics of buildings – Requisites for good acoustics 5.2 Ultrasonics – production of ultrasonic waves - Piezoelectric generator - Detection and applications of Ultrasonic waves.	K1 – K5	13	1-5

BOOKS FOR STUDY

D.S. Mathur., *Elements of Properties of Matter*, S. Chand and Company Pvt. Ltd., New Delhi., 2010.

R. Murugesan, *Properties of Matter*, S. Chand and Company Pvt. Ltd., New Delhi., 2010.

R. Murugesan, Kiruthiga Sivaprasath., *Properties of Matter and Acoustics.*, S. Chand and Company Ltd., New Delhi., 2005.

N Subrahmanyam Brij Lal., *A text book of Sound* (Second revised edition)., S. Chand and Company Pvt. Ltd., New Delhi., 2018

BOOKS FOR REFERENCE

Jearl Walker, David Halliday, Robert Resnick., *Fundamentals of Physics* (8th edition), Wiley India Pvt. Ltd., 2008.

Hugh D Young, Roger A Freedman, *University Physics* (15th edition), Pearson., 2019.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/PS14												
I	Course Title: PROPERTIES OF MATTER AND SOUND												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	3	2	1	1	3	2	2	3	2
CO 2	3	3	3	2	3	2	1	1	3	3	2,1	3	2
CO 3	3	3	3	2	3	2	1	1	3	3	2	3	2
CO 4	3	3	3	2	3	2	1	1	3	3	2	3	2
CO 5	3	3	3	2	3	2	1	1	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

EXPERIMENTAL PHYSICS I

CODE: 23PH/MC/P112

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To enable the students to understand the theoretical and practical knowledge required to perform general and electronic experiments
- To enhance students learning through hands-on experience
- To guide the students to observe and measure various physical quantities through scientific approach.
- To equip the students to interpret and report the measurement to draw valid conclusions
- To facilitate the students to analyze the results of the experiment with an aim to construct or design an equipment or a device for application.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the theoretical concepts with the experiments	K1, K2
CO2	apply the theoretical knowledge in both general and electronic experiments to acquire the necessary data.	K3
CO3	analyse and interpret the quantitative results utilizing mathematical and graphical verification	K4
CO4	determine the various physical properties using scientific instruments.	K5
CO5	develop analytic ability from the technical knowledge gained through hands on training	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

EXPERIMENTS	CL	Hrs	CO
1. Young's Modulus - Non – uniform bending (Pin and Microscope) 2. Potentiometer – Calibration of Voltmeter (Low Range) 3. Young's Modulus - Uniform Bending (Scale and Telescope) 4. Surface Tension and Interfacial Surface Tension - Drop Weight Method. 5. Rigidity Modulus using Torsion Pendulum (Dynamic torsion method) 6. Thermal Conductivity of a Bad Conductor - Lee's Disc 7. Determination of the Refractive Index of the Material of Solid and Liquid Prism – Spectrometer 8. Figure of Merit - Ballistic Galvanometer. 9. Characteristics of Zener diode and voltage regulation	K1-K6	39	1-5

BOOKS FOR STUDY

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics*. Vol. I & II. S. Viswanathan, Chennai, 2009

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, New Delhi, 2013

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Knowledge Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

End Semester Examination: Total Marks: 50

Duration: 3 hours

CRITERION	Knowledge Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/P112												
I	Course Title: EXPERIMENTAL PHYSICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	1	1	3	3	2	2	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 3	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	1	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	1	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI -600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS FOR MATHEMATICS I

CODE: 23PH/AC/PM13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To impart fundamental knowledge in the concepts and laws of physics.
- To train the students in visualizing the Physics behind the characteristics of solids and liquids at different conditions.
- To inculcate practical knowledge related to the dynamic theories evolved in mechanics, viscosity and theory of relativity.
- To engage the students in cultivating physics-based problem-solving abilities in different scientific scenarios
- To encourage the students to apply acquired theoretical knowledge to solve realistic problems

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on elasticity, bending of beams and theories of surface tension and viscosity of liquids, mechanics, and the basic concepts of relativity.	K1
CO2	describe the elastic behaviour of solids, the physical properties of liquids that impact fluid motion, and explain the concepts of mechanics and relativity.	K2
CO3	apply the mathematical tools to solve simple and complex problems in physics	K3
CO4	examine the behaviour of rigid bodies and liquids utilizing theoretical concepts.	K4
CO5	formulate the knowledge gained in theory for real life and practical applications.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Mechanics I 1.1 Impulse-Impact-Conservation of linear momentum: Internal forces and momentum conservation – center of mass- examples- General elastic collision of particles of different masses. 1.2 Significance of conservation laws- law of conservation of Energy- concepts of work- power – energy – potential energy.	K1-K5	6	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Mechanics II 2.1 Simple Harmonic Motion: Periodic and Harmonic Motion- Formula for acceleration, velocity and displacement - Energy of a Harmonic Oscillator- oscillation in spring mass-springs in series and parallel. 2.2 Classical mechanics: Degrees of freedom and constraints - Generalized Coordinates - principle of virtual work - De Alembert's principle -Explanation of Lagrangian equation (No derivation) Application of Lagrangian equation in Atwood's machine and Simple pendulum.	K1-K5	7	1-5
3	Elasticity 3.1 Elastic properties: Hooke's law - Elastic limit moduli of Elasticity Poisson's ratio 3.2 Expression for Bending Moment - Depression at the loaded end of the cantilever – depression and elevation at the midpoint of a loaded beam (non-uniform and uniform bending) – Torsion in a wire – Torque per unit twist – torsional oscillations – Expression for period	K1-K5	6	1-5
4	Viscosity and Surface Tension 4.1 Viscosity: Coefficient of viscosity - Stream Line Flow and Turbulent Flow – Critical Velocity – Euler's Equation for unidirectional flow 4.2 Surface Tension: molecular theory of surface tension - Determination of Surface Tension by Drop Weight Method- Interfacial Surface Tension	K1-K5	7	1-5
5	Relativity 5.1 Inertial Frames of Reference – Newtonian Relativity – Galilean Transformation Equations 5.2 Postulates of Special Theory of Relativity- Lorentz Transformation Equations- Length Contraction - Time Dilation - Twin Paradox and Meson Paradox 5.3 Relativistic Momentum (no derivation) – Mass Energy Relation- Physical Significance.	K1-K5	13	1-5

BOOKS FOR STUDY

Murugeshan R. *Properties of Matter and Acoustics*. New Delhi: S Chand, 2018.
 Narayanamurthi M. & N Nagarathnam. *Dynamics*. Chennai: The National, 1996.
 Resnick, Robert. *Introduction to Special Relativity*. New Delhi: Wiley Eastern, 2021.

BOOKS FOR REFERENCE

Goldstein Herbert. Second Edition. *Classical Mechanics*. U.S.A: Addison & Wesley, 2002.
 Halliday, David and Robert, Resnick. *Physics Vol.I*. Chennai: New Age, 2021.
 Halliday, David Robert Resnick and Walker Jearl. *Fundamentals of Physics*. Kundhi: John Wiley, USA, 2021.

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 1 hour 30 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PM13												
I	Course Title: PHYSICS FOR MATHEMATICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	1	2	2	1	2	3	2	2	1
CO 2	3	3	3	3	3	2	2	1	3	3	3	2	2
CO 3	3	2	2	2	3	2	2	1	2	3	2	3	3
CO 4	3	3	3	2	3	2	1	2	2	2	3	2	2
CO 5	3	3	2	2	3	1	1	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

Allied Core Offered by the Department of Physics to the Students of Mathematics

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL I

CODE: 23PH/AC/P112

CREDITS : 2

L T P : 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

Experiments	CL	Hrs	CO
1. Determination of 'g' - Compound Pendulum. 2. Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope 3. Young's Modulus 'E' by Uniform Bending- Scale and Telescope 4. Rigidity Modulus 'G' - Torsional pendulum 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7. Verification of Series and Parallel connections of resistance and Determination of Specific Resistance - Post Office Box 8. Characteristics of a Zener Diode 9. Verification of Newton's Law of Cooling for two liquids	K1-K5	39	1-5

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan, V., & Balakrishnan, R. *A Text Book of Practical Physics. Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Knowledge Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:**Total Marks: 50****Duration: 3 hours**

CRITERION	Knowledge Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P112												
I	Course Title: PHYSICS PRACTICAL I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course offered to students for
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23PH/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1** Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2** Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3** Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A./ B.S.W. / B.V.A./B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Sc. (Physics) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR PHYSICS I

CODE: 23MT/AC/MP15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- Using the acquired knowledge on matrices to determine diagonalizable matrices, form similar matrices and use Cayley Hamilton theorem to find inverses
- To impart knowledge in differential and integral calculus for solving Mathematical problems in Physics
- To understand and solve various types of first order differential equations
- To appreciate the concept of Fourier series in expressing some functions as an infinite series
- To introduce the concept of Operations Research for solving Linear Programming Problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall basic mathematical concepts required for students pursuing Physics	K1
CO2	understand basic mathematical tools used for computations	K2
CO3	apply various techniques of calculus, matrices, differential equations, Fourier series and operation research to formulate and solve problems that are applied in physics	K3
CO4	analyze appropriate areas of applying mathematical tools in real life situations	K4
CO5	assess the techniques in Fourier Series, differential equations, calculus, matrices and Linear Programming for solving real life problems	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Properties of Matrices 1.1 Eigenvalues and Eigenvectors 1.2 Cayley-Hamilton Theorem 1.3 Similar Matrices 1.4 Diagonalization of Matrices Possessing Distinct Eigenvalues 1.5 Eigenvalues for Symmetric Matrices	K1- K5	12	CO1-5
2	Differential Calculus 2.1 Higher Derivatives - n th Derivative – Standard Results 2.2 Trigonometric Transformations 2.3 Formation of Equations Involving Derivatives 2.4 Liebnitz's Formula for n th Derivative - Problems involving Liebnitz's Formula Integral Calculus 2.5 Methods of Integration of Functions of the following Types: $\frac{1}{(x+p)\sqrt{ax^2+bx+c}}$; $\frac{1}{\sqrt{(x-a)(b-x)}}$; $\frac{1}{\sqrt{(x-a)(b-x)}} \frac{(x-a)}{\sqrt{(b-x)}}$	K1- K5	15	CO1-5
3	Differential Equations 3.1 Partial Differential Equation 3.2 Formation of Equations by Elimination of Constants and an Arbitrary Function 3.3 Definition of General, Particular, Complete and Singular Integral 3.4 Solutions of First Order Equations in their Standard Forms 3.5 Lagrange's Method of Solving of Linear Equations $Pp + Qq = R$	K1- K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
4	Fourier Series 4.1 Definition of Fourier Series 4.2 Finding Fourier Coefficients for a given Periodic Function with Period 2π 4.3 Odd and Even Functions 4.4 Half - Range Series 4.5 Development in sine and cosine series	K1- K5	12	CO1-5
5	Linear Programming Problem 5.1 Formulation of LPP 5.2 Graphical Method 5.3 Simplex Method	K1- K5	13	CO1-5

BOOKS FOR STUDY

Narayanan, S., et al. *Ancillary Mathematics –Volume–I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2012.

Chapter 3: Sections 3.4, 3.5

Chapter 6: Sections 6.1

Narayanan, S., et al. *Ancillary Mathematics – Volume–II*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 1995 Reprint 2011.

Chapter 1 : Sections 8 (cases 5 & 8)

Chapter 2 : Sections 1 - 5

Chapter 6 : Sections 1-3, 5, 6

Kalavathy, S. *Operations Research*. Noida, Vikas Publishing House, Fourth Edition 2013.

Chapter 2 : Sections 2.1, 2.2

Chapter 3 : Sections 3.1 – 3.3

Chapter 4 : Sections 4.1, 4.2

BOOKS FOR REFERENCE

Joseph, Edwards. *An Elementary Treatise on the Differential Calculus*, London: Macmillan, 1948.

Manicavachagam Pillai, T.K., et al. *Algebra Volume I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Manicavachagam Pillai, T.K., et al. *Algebra Volume II*. Madras.: S. Viswanathan Printers and Publishers Pvt., Ltd., 2004.

Singaravelu, A. *Allied Mathematics*. Chennai: Meenakshi Agency, 2010

Sundaresan, V. et al. *Resource Management Techniques*. 4th ed. Arapakkam: A.R. Publications, 2007.

Swarup, Kanti, et al. *Operations Research*. New Delhi: Sultan Chand and sons, 2009.

WEB RESOURCES

http://sydney.edu.au/stuserv/documents/maths_learning_centre/differentialcalculus.pdf

<http://www.mathsisfun.com/calculus/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/AC/MP15												
	Course Title: MATHEMATICS FOR PHYSICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 2	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	2
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

THERMAL PHYSICS AND STATISTICAL MECHANICS

CODE: 23PH/MC/TS23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To impart knowledge of heat, work and energy, basic principles and theories pertaining to thermodynamics and the fundamental postulates of statistical mechanics.
- To support the students to understand the significance of the first and second laws of thermodynamics, connection between thermodynamics and statistical mechanics, working of heat engines and refrigerators and the basic aspects of classical statistics.
- To direct the students in applying the theoretical concepts to study heat conduction and radiation in a hot body, physical thermodynamic systems and macroscopic parameters of a system using the microscopic properties.
- To analyze the different modes of heat transfer, various thermodynamic variables needed to describe the state of a system, and differentiate between various techniques of producing low temperature, and the different types of statistics and their applicability based on the nature of the particles in the system.
- To drive the students in solving and justifying solutions related to problems in real thermodynamic systems and appreciate the role of thermodynamics in our daily life.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Acquire knowledge on the various modes of heat transfer, laws of thermodynamics, entropy of a system, thermodynamic potentials, Maxwell's thermodynamical relations, basics of cryogenics and the postulates of statistical mechanics.	K1
CO2	Describe conduction and radiation, the laws of thermodynamics and their applications, the methods of producing low temperatures, the connection between statistics and thermodynamics and the real-world applications of thermodynamics.	K2
CO3	Apply radiation laws to calculate the surface temperature of a star, Maxwell's relations to express unknown thermodynamic variable in terms of measurable thermodynamic variables, microscopic properties of a system to study the macroscopic parameters of a thermodynamic system.	K3
CO4	Deduce expressions related to Entropy of a system, Maxwell's relations of thermodynamical potentials and thermodynamic probability of a system.	K4
CO5	Evaluate and solve problems related to thermodynamic systems such as heat engines and refrigerators, and classical statistics.	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate

UNIT	CONTENT	CL	Hrs	CO
1	Transmission of Heat 1.1 Modes of heat transfer – Conduction – Coefficient of thermal conductivity – Thermal conductivity of a good conductor – Thermal conductivity of a bad conductor. 1.2. Thermal radiation - Blackbody - Experimental arrangement to study energy distribution in black body spectrum – Experimental results – Planck's hypothesis - Derivation of Planck's radiation law - Deduction of Wien's distribution law, Rayleigh-Jeans law, Stefan's law, and Wien's displacement law from Planck's law – Solar constant – Temperature of the sun.	K1 – K5	11	1-5
2	Laws of Thermodynamics 2.1 Thermodynamic systems - Zeroth law of thermodynamics - Thermodynamic equilibrium - Concept of temperature - Thermodynamic processes - Internal energy - First law of thermodynamics. 2.2 Second Law of Thermodynamics: Kelvin-Planck and Clausius statements and their equivalence – Heat engine - Carnot's engine and efficiency - Thermodynamics of refrigeration and coefficient of performance.	K1 – K5	11	1-5
3	Entropy 3.1 Concept of Entropy - Entropy change in reversible and irreversible processes - Principle of increase of entropy – Temperature - entropy (TS) diagram - Technical importance of T-S Diagram – Entropy of a perfect gas. 3.2 Second law of thermodynamics in terms of entropy - expression connecting first and second laws of thermodynamics - Third law of thermodynamics: Nernst heat theorem – Heat death of universe.	K1 – K5	11	1-5
4	Thermodynamical Relationships 4.1 Thermodynamic potentials (definition) - Maxwell's thermodynamical relations – Applications of Maxwell's thermodynamical relations: first and second TdS equation – $C_p - C_v = R$ equation – Clausius-Clapeyron latent heat equation.	K1 – K5	7	1-5
5	Low Temperature Physics and Statistical Mechanics 5.1 Production of very low temperature - Joule Kelvin effect – porous plug experiment - Liquefaction of gases - Liquefaction of Helium - Peculiar properties of liquid Helium II - Adiabatic demagnetization of paramagnetic salt - Theory and experiment. 5.2 Phase space - Micro and macro states - Ensembles - Definition of thermodynamic probability - Relation between entropy and thermodynamic probability - Maxwell-Boltzmann distribution.	K1 – K5	12	1-5

BOOKS FOR STUDY

Subrahmanyam, N and Lal Brij, *Heat Thermodynamics and Statistical Physics*, S. Chand, New Delhi, 2022.

R. Murugesan and Er. Kiruthiga Sivaprasath, *Thermal Physics*, S Chand: Popular, New Delhi, 2018.

Mathur D.S., *Heat and Thermodynamics*, Sultan Chand, New Delhi, 2008.

Satya Prakash, *Statistical Mechanics*, Kedar Nath Ram Nath, New Delhi, 2018.

BOOKS FOR REFERENCE

Rajam J. B., *Heat and Thermodynamics*, S Chand, New Delhi, 1981.

Kakani S.L., *Heat, Thermodynamics and Statistical Mechanics*, Sultan Chand, New Delhi, 2009.

Bhatia V. S., *Thermodynamics and Kinetic Theory*, Shobanlal Nagin Chand, New Delhi, 2017.

Das Gupta, A.K., *Fundamentals of Statistical Mechanics*, New central, Calcutta, 2007.

Gupta and Kumar, *Elementary Statistical Mechanics*, Pragati Prakasham, Meerut, 2016.

JOURNALS

Thermodynamics and Statistical Mechanics - Springer

Classical Continuum Physics – Springer

WEBRESOURCE

<http://www.sites.fas.harvard.edu/6346> : Statistical Mechanics and Thermodynamics

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/TS23												
II	Course Title: THERMAL PHYSICS AND STATISTICAL MECHANICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	3	2	1	1	3	3	2	3	2
CO 2	3	3	3	1	3	2	1	1	3	3	2	3	2
CO 3	3	3	3	1	3	2	1	1	3	3	2	3	2
CO 4	3	3	3	1	3	2	1	1	3	3	2	3	2
CO 5	3	3	3	1	3	2	1	1	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Sc. DEGREE: BRANCH III - PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

MECHANICS

CODE: 23PH/MC/ME24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart basic knowledge on the principles and theories relating to Mechanics.
- To enable the students to understand the Newtonian laws of motion, various theories of gravitation, conservation laws of momentum and energy, types of motion and the concepts of Lagrangian Mechanics.
- To guide the students in applying the concepts of forces, work, power and energy in real time situations.
- To equip the students to derive mathematical expressions related to various motion of regular and rigid bodies.
- To facilitate the students in solving problems and proposing empirical solutions in mechanics.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on laws of motion, gravitation, conservation laws of linear and angular momentum and energy, dynamics of rigid bodies and Lagrangian Mechanics.	K1
CO2	understand the Newtonian laws of motion, various theories of gravitation, conservation laws of momentum and energy, types of motion and the concepts of Lagrangian Mechanics.	K2
CO3	apply the theories and principles of mechanics to determine G, gravitational potential, the velocities of particles before and after collision, moment of inertia of various geometrical bodies, time period of compound and bifilar pendulum, time period of simple pendulum and Atwood's machine.	K3
CO4	Deduce various expressions and thereby analyse the laws of motion, gravitation, conservation laws of linear and angular momentum and energy, dynamics of rigid bodies and Lagrangian Mechanics.	K4
CO5	Evaluate and solve problems related to laws of motion, gravitation, conservation laws of linear and angular momentum and energy, dynamics of rigid bodies and Lagrangian Mechanics.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Laws of motion and Gravitation 1.1 Laws of motion: Newton's Laws – Forces – Equations of motion – Frictional force – Motion of a particle in a uniform gravitational field – Types of everyday forces in Physics. 1.2 Gravitation: Classical theory of gravitation–Kepler's laws, Newton's law of gravitation – Determination of G by Cavendish's method – Earth-moon system – Weightlessness – Earth satellites – Parking orbit – Earth density – Mass of the Sun – Gravitational potential – Velocity of escape – Satellite potential and kinetic energy –Einstein's theory of gravitation – Introduction –Principle of equivalence – Experimental tests of general theory of relativity – Gravitational red shift – Bending of light – Perihelion of mercury.	K1-K5	13	1-5
2	Conservation laws of linear and angular momentum 2.1 Conservation of linear and angular momentum - Internal forces and momentum conservation – Center of mass- Examples 2.2 General elastic collision of particles of different masses – System with variable mass – Examples. 2.3 Conservation of angular momentum – Torque due to internal forces – Torque due to gravity – Angular momentum about center of mass- Proton scattering by heavy nucleus.	K1-K5	13	1-5
3	Conservation laws of energy 3.1 Introduction - Significance of conservation laws - Law of conservation of energy concepts of work - Power – Energy. 3.2 Conservative forces – Potential energy and conservation of energy in gravitational and electric field - Examples 3.3 Non-conservative forces – General law of conservation of Energy.	K1-K5	13	1-5
4	Rigid Body Dynamics 4.1 Translational and Rotational motion - Moment of inertia - Kinetic energy of a body rotating about a fixed axis – Angular momentum of a rotating body – General theorems of moment of inertia – Examples. 4.2 Rotation about fixed axis – The Compound pendulum – Centre of suspension and centre of oscillation – The Bifilar Pendulum - Body rolling along a plane surface – Body rolling down an inclined plane. 4.3 Gyroscopic Precision - Gyrostatic applications.	K1-K5	14	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Lagrangian Mechanics 5.1 Generalized coordinates - Degrees of Freedom – Constraints. 5.2 Principle of Virtual Work and D’ Alembert’s Principle. 5.3 Lagrange’s Equation From D’ Alembert’s Principle – Application- Simple Pendulum – Atwood’s Machine.	K1-K5	12	1-5

BOOKS FOR STUDY

Narayanamurthi, M. and Nagarathnam, N. *Dynamics*, The National Publishing, Chennai, 2008.

Mathur D.S., *Mechanics*, S. Chand, New Delhi, 2000.

Durai Pandian P., Laxmi Durai Pandian and Muthamizh Jayapragasam, *Mechanics*, 6th revised edition, S. Chand and Co, New Delhi, 2005.

Upadhyaya J. C., *Classical Mechanics*, Himalaya Publishing house, Mumbai. 2019.

BOOKS FOR REFERENCE

Goldstein Herbert, *Classical Mechanics*, Addison and Wesley, U.S.A, 2001.

Halliday, David and Robert, Resnick, *Physics Vol I*, New Age International, Chennai, 1995.

Halliday, David Robert Resnick and Walker Jearl, *Fundamentals of Physics*, John Wiley, New Delhi, 2001.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/ME24												
II	Course Title: MECHANICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	1	1	1	3	3	3	2	1
CO 2	3	3	2	2	1	1	1	1	3	3	3	2	1
CO 3	3	3	2	2	1	1	1	1	3	3	3	2	1
CO 4	3	3	2	2	1	1	1	1	3	3	3	2	1
CO 5	3	3	2	2	1	1	1	1	3	3	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

EXPERIMENTAL PHYSICS II

CODE:23PH/MC/P222

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To enable the students to understand the theoretical and practical knowledge required to perform general and electronic experiments.
- To enhance students learning through hands-on experience.
- To guide the students to observe and measure various physical quantities through scientific approach.
- To equip the students to interpret and report the measurement to draw valid conclusions.
- To facilitate the students to analyze the results of the experiment with an aim to construct or design an equipment or a device for application.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the theoretical concepts with the experiments.	K1, K2
CO2	apply the theoretical knowledge in both general and electronic experiments to acquire the necessary data.	K3
CO3	analyse and interpret the quantitative results utilizing mathematical and graphical verification.	K4
CO4	determine the various physical properties using scientific instruments.	K5
CO5	develop analytic ability from the technical knowledge gained through hands on training.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

EXPERIMENTS	CL	Hrs	CO
1. Determination of 'g', 'k' and 'I' - Compound Pendulum 2. Verification of Laws and Determination of frequency of tuning fork – and unknown mass - Sonometer 3. Rigidity Modulus - Determination of 'G' by Static Torsion 4. Specific Heat of Solid – Method of Mixtures – Applying Barton's Correction 5. Surface Tension – Capillary Rise method 6. Ammeter Calibration (High Range and Low range)- Potentiometer 7. Charge Sensitivity - Ballistic Galvanometer 8. Grating – Normal Incidence (i) Standardization of the Grating (N) (ii) Determination of the Wavelength of the prominent lines of the Mercury Spectrum. (iii) Dispersive Power of the Grating - Spectrometer 9. Determination of Resistance and Specific Resistance - Post Office Box	K1-K6	39	1-5

BOOKS FOR STUDY

Ouseph C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics*. Vol. I & II. S. Viswanathan, Chennai, 2009.

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, 10th Revised Edition, New Central Book Agency, New Delhi, 2013.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

End Semester Examination: Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/P222												
II	Course Title: EXPERIMENTAL PHYSICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	1	1	3	3	2	2	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 3	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	1	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	1	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

Allied Core Offered by the Department of Physics to Students of Mathematics

SYLLABUS

(Effective from the academic year 2023 - 2024)

PHYSICS FOR MATHEMATICS II

CODE:23PH/AC/PM23

CREDITS:3

L T P: 3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To deepen understanding on the fundamental laws and principles in physics.
- To equip students to study the theoretical concepts based on charges, geometrical and physical optics and the characteristics of Operational Amplifier.
- To elucidate the students with the concepts of electricity, magnetism, optics and electronics in realistic situations.
- To guide students to deduce expressions for various theories pertaining to physics using mathematical concepts.
- To allow students to examine concepts to resolve problems across multiple scientific contexts.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	understand the fundamental principles of electricity, magnetism, optics and electronics.	K1
CO 2	describe the theory of charges in electric and magnetic field, optical aberrations, interference, diffraction, polarization and also the theory behind working of digital circuits.	K2
CO 3	illustrate the behavior of charges using Gauss's Law and Maxwell's electromagnetic equations, importance of different types of telescopes, significance of physical properties in optics and Boolean algebra.	K3
CO 4	analyze the gained knowledge to derive expression for electric field, electric potential, force on a current carrying conductor in a magnetic field, aberrations, determination of wavelength and De Morgan's Theorem.	K4
CO 5	evaluate problems in physics and in realistic situations utilizing theoretical concepts.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Electricity 1.1 Introduction – Coloumb’s law, electric flux, Gauss's law and proof – Differential form of Gauss's law - Applications of Gauss theorem- Infinite line of charge, uniformly charged solid sphere - Field due to a uniformly charged hollow cylinder. 1.2 Electric potential - Electric potential as a line integral of electric field, potential due to a point charge – Relation between electric field and electric potential – Work done in moving a charge (earthed inside and outside) – Capacitance - Capacitance of spherical capacitor.	K1 – K5	6	1-5
2	Magnetism 2.1 Magnetic induction – Force on a Charge in a Magnetic Field, in an electromagnetic Field (Lorentz Force) – Biot-Savart law – Ampere’s circuital law - Maxwell’s electromagnetic Equations (No derivation) – Physical significance of the equations. 2.2 Electromagnetism: Force on a current carrying conductor in a magnetic field – Torque on a current loop in a uniform magnetic field – Moving coil Ballistic Galvanometer – Theory, current and charge sensitivity of B.G.	K1 – K5	7	1-5
3	Geometrical Optics 3.1 Lens Aberrations: Monochromatic aberrations – Spherical aberration in lenses – Methods of minimizing spherical aberration- Coma, Astigmatism, distortion- Chromatic aberration – achromatic combination of lenses in contact and lenses separated by a distance. 3.2 Optical Instruments: Telescopes – Angular magnification of telescopes - Refractive astronomical telescope – Terrestrial telescope – Reflecting telescopes – Radio telescope – Hubble telescope.	K1 – K5	6	1-5
4	Physical Optics 4.1 Interference: Thin films - Plane parallel film – Interference due to reflected and transmitted light – Newton’s rings – Measurement of wavelength. 4.2 Diffraction: Theory of plane transmission grating - Normal incidence – Determination of wavelength - Polarization – Double refraction – Nicol prism – Optical activity – Uses of polaroids.	K1 – K5	7	1-5
5	Electronics 5.1 Introduction to amplifiers - Operational amplifier – Ideal Op-Amp - CMRR –Inverting and non-inverting Op-Amp - Summing, difference, integral and differential Op-Amp. 5.2 Boolean algebra- De Morgan’s Theorem – Verification - Algebraic simplification – Implementation of Boolean algebra into circuits - Karnaugh map up to four variables.	K1 – K5	13	1-5

BOOKS FOR STUDY

R. Murugesan, *Electricity and Magnetism*, S. Chand and Co. Pvt. Ltd, New Delhi, India, 2017.
Murugesan. R. *Modern Physics*, S. Chand and Co. Pvt. Ltd, New Delhi, India, 2013.
Subrahmanyam, N. and Lal Brij, *Textbook of Optics*, S. Chand, Limited, New Delhi, India, 1995.
Mehta, V.K. *Principles of Electronics*, S. Chand and Co, Pvt. Ltd, New Delhi, India, 2014.

BOOKS FOR REFERENCE

Haliday, David and Robert Resnick. *Physics Vol. II*. New Age: Chennai, India 1995.
Kakani, S L, and Bhandari K C. *A Text Book of Optics*, Sultan Chand, New Delhi, India, 2002.
Laud. B.B., *Lasers and Non – Linear Optic*, Wiley Eastern: New Delhi, India, 1991.
R. Murugesan Kiruthiga Sivaprasath, *Optics and Spectroscopy*, S. Chand and Co, Pvt. Ltd. 7th revised edition, New Delhi, India, 2010.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 × 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving
All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PM23												
II	Course Title: PHYSICS FOR MATHEMATICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	3	2	1	3	3	2	3	3
CO 2	3	3	3	3	3	3	2	1	3	3	3	2	2
CO 3	3	2	3	2	3	3	2	1	2	3	2	3	3
CO 4	3	3	3	3	3	3	2	1	2	2	3	3	3
CO 5	3	3	2	3	3	3	3	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL II

CODE:23PH/AC/P222

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data.	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

S.No.	EXPERIMENTS	CL	Hrs	CO
1.	Rigidity Modulus 'G' by Static Torsion	K1-K5	39	1-5
2.	Determination of Radius of Curvature of a Lens - Newton's Rings			
3.	Grating – Normal Incidence - Determination of Wavelengths (λ) of Prominent lines of mercury spectrum - Spectrometer			
4.	Determination of Specific Heat of a Liquid – Joule's Calorimeter – Applying Half Time Correction			
5.	Ammeter Calibration (Low Range) - Potentiometer			
6.	OPAMP- Inverting and Non Inverting Amplifier			
7.	Specific Heat Capacity of a Solid – Method of Mixtures			
8.	Determination of Specific Resistance - Carey Foster's bridge			
9.	Coefficient of Viscosity – Poiseuille's Method			

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan, V. and Balakrishnan R., *A Text Book of Practical Physics. Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:**Total Marks: 50****Duration: 3 hours**

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P222												
II	Course Title: PHYSICS PRACTICAL II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course offered to students for
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE : 23PH/GC/ES12

CREDITS :2

L T P : 2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making
No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Sc. (Physics) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR PHYSICS II

CODE: 23MT/AC/MP25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide basic mathematical concepts required for students pursuing Physics
- To introduce problem solving skills using numerical methods
- To interpret the concept of derivatives and their applications geometrically
- To utilize Laplace transformations for solving differential equations
- To teach statistical tools using correlation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall basic mathematical concepts required for students pursuing Physics	K1
CO2	understand the concept of Laplace, improper integrals, numerical methods and statistics	K2
CO3	apply appropriate mathematical methods and techniques in solving problems	K3
CO4	analyze the applications of calculus, transforms, finite differences and correlation parameters	K4
CO5	evaluate the solution of improper integrals, differential equations using Laplace transforms, finite differences and correlation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Laplace Transform 1.1 Definition of Laplace Transform 1.2 Transforms of $f'(t)$ & $f''(t)$ 1.3 Transformation of Function e^{-at} , $\cos at$, $\sin at$ and t^n , where 'n' is a Positive Integer 1.4 First Shifting Theorem: Laplace Transforms of $e^{-at}\cos bt$, $e^{-at}\sin bt$ and $e^{-at}t^n$	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Inverse Laplace Transform 2.1 Inverse Laplace Transforms of Functions relating to $e^{-at} \cos bt$, $e^{-at} \sin bt$ and $e^{-at} t^n$ 2.2 Applications to Solutions of Ordinary Differential Equations with Constant Coefficients	K1-K5	13	CO1-5
3	Beta, Gamma Integrals 3.1 Definitions of Beta and Gamma Integrals 3.2 Recurrence Formula for Gamma Functions 3.3 Properties of Beta Functions 3.4 Relation between Beta and Gamma Functions	K1-K5	13	CO1-5
4	Finite Difference Methods 4.1 Finite Differences 4.2 Forward Difference Table 4.3 Interpolation Methods 4.4 Newton's Forward Formula 4.5 Newton's Backward Formula 4.6 Binomial Method 4.7 Lagrange's Formula	K1-K5	13	CO1-5
5	Statistics 5.1 Correlation 5.2 Scatter Diagram and its Uses 5.3 Karl Pearson's Coefficient of Correlation 5.4 Probable Error of Correlation Coefficient 5.5 Spearman's Rank Correlation Coefficient 5.6 Merits and Demerits of Rank Correlation Coefficient	K1-K5	14	CO1-5

BOOKS FOR STUDY

S, Narayanan and Manicavachagam Pillay T.K. *Calculus - Vol II*. Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 2012.

Chapter 7 Sections 2.1, 2.3, 3 – 5

S, Narayanan, et al. *Ancillary Mathematics – Volume – I*. Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 1995 Reprint 2011.

Chapter 4 Sections 4, 4.1 - 4.3

S, Narayanan, et al. *Ancillary Mathematics* – Volume – II. Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 1995 Reprint 2011.

Chapter 7 Sections 1 – 6

R. S. N, Pillai and Bagavathi V. *Statistics: Theory and Practice*, S. Chand & company Ltd, New Delhi, 2012.

Chapter 12 Page No: 396-410, 413-420

BOOKS FOR REFERENCE

B.D, Gupta. *Numerical Analysis*. New Delhi, Konark Publishers Pvt. Ltd., 1999.

S. C, Gupta and Kapoor V. K. *Fundamentals of Mathematical Statistics*, New Delhi, Sultan Chand and Sons, 2007 Reprint 2014.

Jeffrey Alan. *Handbook of Mathematical formulas and Integrals*, United States, Academic Press, 2004.

S, Narayanan and Manicavachagam Pillay T.K. *Calculus-Volume I*, Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 1997.

V.N, Vedamurthy and Iyengar N. Ch. S. N. *Numerical Methods*. Noida, Vikas Publishing House, 1998.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MP25												
	Course Title: MATHEMATICS FOR PHYSICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 2	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	2
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 –2024)

ELECTRONICS I

CODE:23PH/MC/EL33

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To impart fundamental knowledge of digital principles as applied to microprocessors, computers and various digital devices.
- To enable the student to understand combinational and sequential logic circuits and their use in digital circuits.
- To Familiarize the students with the concepts of Flip Flops, registers and counters.
- To expose the students to the concept of Operational amplifier and its applications.
- To facilitate the students to design simple linear and nonlinear circuits using op-amp.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the fundamental concepts of number systems, logic gates, Boolean algebra, K map and relate them with the digital circuits.	K1
CO2	Explain the working of arithmetic circuits, Multiplexer, demultiplexer, Flip Flops and operational amplifier.	K2
CO3	Construct and demonstrate the Combinational and sequential circuits, and operational amplifier circuits.	K3
CO4	Analyze the operation of various combinational and sequential circuits including Op-Amp circuits.	K4
CO5	identify basic requirements for a design application and their role in the digital system design.	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate

UNIT	CONTENT	CL	Hrs	CO
1	Number Systems, Boolean Algebra and K-map 1.1 Introduction – Analog and digital signals – Digital circuit – Decimal - Binary - Octal and Hexa number systems - Binary arithmetic – Principles of addition – Subtraction- 1s complement and 2s complement method - Multiplication and division. 1.2 De Morgan's Theorem - Implementation of Boolean algebra into circuits - Basic logic gates, NAND, NOR, EX-OR - Fundamental products – SOP and POS forms - Karnaugh Map - Simplification up to four variables (SOP Only) - Don't care conditions - Realization of logic circuits.	K1- K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Digital Circuits 2.1 Arithmetic Circuits: Half adder – Full adder – Half subtractor – Full subtractor - Parallel binary adder. 2.2 Combination Circuit: Introduction - Multiplexers (4:1) and demultiplexers (1:4), decoder (3-line-to-8-line), BCD to seven segment decoders, encoder (8-line-to-3-line). 2.3 Semiconductor memories: Introduction - ROM, PROM, RAM - Flip flop as a RAM cell.	K1- K5	11	1-5
3	Flip - Flops, Registers and Counters 3.1 Flip-Flops: Introduction- SR - Clocked SR – D- JK - JK Master Slave - T - Flip-Flops and their truth tables. 3.2 Registers and Counters: Shift registers – Shift right - Shift left registers - Ripple counter – Mod-2, Mod-8, Mod-16 counters - Binary ripple counter (4 bit up counter - 4 bit down counter) - Decade counter.	K1- K5	12	1-5
4	Operational Amplifier 4.1 Operational Amplifier - Differential Amplifier – CMRR – Virtual Ground – Non-inverting – Inverting modes of operation – Gain equation. 4.2 Operational amplifier application – Adder, subtractor - Scale and sign changer – Differentiator – Integrator – Voltage follower – Comparator - Electronic analog computation – Solution of simultaneous equations – Differential equation.	K1- K5	10	1-5
5	D/A and A/D converters 5.1 Introduction - Binary Weighted resistor D/A converter – R–2R resistive ladder D/A converter. 5.2 Analogue to Digital: Counter type A/D converter - A/D conversion using voltage to frequency converter - Parallel comparator A/D converter.	K1- K5	7	1-5

BOOKS FOR STUDY

Vijayaendran V, *Introduction to Digital Electronics*, S.Viswanathan printers and publishers Pvt, Ltd, Chennai, 2012.

Mehta V.K. *Electronic Principles*, S Chand, New Delhi, 2014.

Malvino Albert Paul. *Electronic Principles*, Tata McGraw Hill, New Delhi, 1998.

Malvino Albert Paul and Leach Donald, *Digital Principles and Application*, TataMcGraw Hill, New Delhi, 2006.

BOOKS FOR REFERENCE

Allen Mottershead. *Electronic Devices and Circuits*, Prentice Hall of India, New Delhi, 1982.

Ambrose A and T. Vincent Devaraj. *Elements of Solid State Electronics*, Meera, New Delhi 1990.

Floyd Thomas L. *Digital Fundamentals*, Universal Book Stall, New Delhi, 1997.

Milmann and Halkias. *Integrated Electronics*. Tata McGraw Hill, New Delhi, 1992.

Sedha R.S., *Applied Electronics*, S Chand, New Delhi, 1997.

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 1 hour 30 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/EL33												
III	Course Title: ELECTRONICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	1	2	1	1	0	3	1	1	2	1
CO 2	3	2	3	2	1	2	0	0	3	3	2	2	1
CO 3	3	2	3	1	2	2	1	1	3	3	2	2	1
CO 4	3	2	2	1	2	2	1	0	3	3	2	2	1
CO 5	3	3	3	2	2	3	2	1	3	3	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE, (AUTONOMOUS), CHENNAI-600 086

B.Sc. DEGREE: BRANCH III –PHYSICS

SYLLABUS

(Effective from the academic year 2023-2024)

OPTICS AND SPECTROSCOPY

CODE:23PH/MC/OS34

CREDITS:4

L T P:4 1 0

TOTALTEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To expose the students with fundamental principles of light.
- To enable the students to understand various phenomena of light waves.
- To provide a clear idea about the design of various optical systems.
- To equip students to apply the principles of optics in relevant fields.
- To make the student understand spectra and few basic spectroscopic techniques.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basics of various phenomena in geometrical, wave optics and spectroscopy.	K1
CO2	understand the behavior of light in different mediums, origin of spectra and characterization techniques.	K2
CO3	examine the differences in the important phenomena namely interference, diffraction and Polarization and properties of spectra, and apply the knowledge in day-to-day life.	K3
CO4	explain the theory of optical systems and the methods to minimize aberrations and to illustrate the theory associate with IR and NMR.	K4
CO5	develop problem solving Skill in optics by selecting the appropriate equations and performing numerical or analytical calculations and to relate the principle of optics in IR and NMR spectroscopy.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Geometrical optics 1.1 Fermat's principle of least time - Rectilinear propagation of light - Reversibility of the path of the rays of light. 1.2 Thick lenses – Focal length, critical thickness, power and cardinal points of a thick lens. 1.3 Lens aberrations: Monochromatic aberrations – Spherical aberration – Coma - Astigmatism - Curvature of the field – Distortion – Chromatic aberrations - Methods of minimizing aberrations. Eyepieces: Advantage of an eyepiece over a simple lens – Huygen's eyepiece. Prism: Dispersion - Angular dispersion - Achromatic combination of prisms (deviation without dispersion) - Dispersion without deviation.	K1- K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Interference 2.1 Huygen's principle of wavefront propagation and its limitations. 2.2 Division of wave front: Fresnel's biprism – Theory- Fringes with white light - Division of amplitude : Interference in thin films due to reflected light – Colours of thin films - Newton's rings – Theory. 2.3 Interferometers: Michelson's Interferometer – Determination of the wavelength of a monochromatic source of light.	K1- K5	13	1-5
3	Diffraction 3.1 Fresnel's assumptions – Zone plate - Action of zone plate for an incident spherical wave front- Differences between a zone plate and a convex lens. 3.2 Fresnel type of diffraction: Diffraction pattern due to a straight edge – Positions of maximum and minimum intensities – Diffraction due to a narrow slit. Fraunhofer type of diffraction: Fraunhofer diffraction at a single slit- Plane diffraction grating – Theory- Experiment to determine wavelengths – Width of principal maxima. 3.3 Resolving power of optical instruments: Rayleigh's criterion for resolution –Limit of resolution for the eye-resolving power of (i) telescope (ii) grating.	K1- K5	13	1-5
4	Polarization 4.1 Double Refraction - optic axis principal plane – Huyghen's explanation of double refraction in uniaxial crystals. 4.2 Elliptically and circularly polarized light – Quarter wave plate - half wave plate - Production and detection of circularly polarized light and elliptically polarized light. Optical activity- Fresnel's explanation – Specific rotation – Laurent half shade polarimeter - Experiment to determine specific rotatory power.	K1- K5	13	1-5
5	Spectroscopy 5.1 Characteristics of electromagnetic spectrum – The quantization of energy – Regions of the spectrum – Representation of spectra – Basic elements of practical spectroscopy. 5.2 Infra-Red Spectroscopy - Properties - Origin of Infra-Red spectra - IR spectrophotometer. 5.3 Nuclear Magnetic Resonance – Introduction – Theory - Experimental arrangement - Application in inorganic chemistry - Chemical shift.	K1- K5	13	1-5

BOOKS FOR STUDY

Subramaniam N. and Brijlal, *Optics*, S. Chand and Co, Pvt. Ltd. 25th edition reprint, New Delhi, 2014.

B.K. Sharma, *Spectroscopy*, 20th edition, Goel Publishing House, Meerut, 2007.

R. Murugesan, Kiruthiga Sivaprasath, *Optics and Spectroscopy*, S. Chand and Co, Pvt. Ltd. 7th revised edition, New Delhi, 2010.

BOOK FOR REFERENCE

Agarwal B. S., *Optics*, Kedarnath Ramnath Publishers, Meerut, 2011.

Jenkins A. Francis and White, *Fundamentals of Optics*, 4th edition, McGraw Hill Inc., New Delhi, 2011.

Colin N. Banwell and Elaine M. McCash, *Fundamentals of Molecular Spectroscopy*, 4th edition, Tata Mc Graw, Hill Publishing Company Limited, New Delhi, 2017.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/OS34												
III	Course Title: OPTICS AND SPECTROSCOPY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	1	0	0	3	3	2	2	1
CO 2	3	3	1	2	2	1	1	0	3	3	2	2	1
CO 3	3	3	2	2	3	3	2	1	3	3	2	3	1
CO 4	3	3	3	2	2	3	2	1	3	3	2	2	1
CO 5	3	3	3	2	3	2	1	1	3	3	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

EXPERIMENTAL PHYSICS III

CODE:23PH/MC/P332

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To enable the students to understand the theoretical and practical knowledge required to perform general and electronic experiments.
- To enhance students learning through hands-on experience.
- To guide the students to observe and measure various physical quantities through scientific approach.
- To equip the students to interpret and report the measurement to draw valid conclusions.
- To facilitate the students to analyze the results of the experiment with an aim to construct or design an equipment or a device for application.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the theoretical concepts with the experiments.	K1, K2
CO2	apply the theoretical knowledge in both general and electronic experiments to acquire the necessary data.	K3
CO3	analyse and interpret the quantitative results utilizing mathematical and graphical verification.	K4
CO4	determine the various physical properties using scientific instruments.	K5
CO5	develop analytic ability from the technical knowledge gained through hands on training.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

EXPERIMENTS	CL	Hrs	CO
1. Determination of the Frequency of the Tuning Fork using Transverse and Longitudinal Mode of Vibrations of the String - Melde's Apparatus 2. Determination of Absolute Capacity of a Condenser - Ballistic Galvanometer 3. Determination of Resistance and Specific Resistance - Potentiometer 4. Conversion of Low Range Ammeter to High Range Ammeter - Multimeter 5. Dispersive Power of the Prism and Cauchy's Constants - Spectrometer 6. Determination of radius of curvature and focal length of the lens - Newton's Rings 7. Verification of perpendicular axes theorem - Bifilar Pendulum 8. Absolute Determination and Comparison of Coefficient of Viscosities of Liquids – Poiseuille's Method 9. Determination of H and B - Field along the axis of the Coil	K1-K6	39	1-5

BOOKS FOR STUDY

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* S. Viswanathan, Chennai, 2009

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, New Delhi, 2013

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

End Semester Examination: Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/P332												
III	Course Title: EXPERIMENTAL PHYSICS III												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	1	1	3	3	2	2	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 3	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	1	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	1	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS FOR CHEMISTRY I

CODE:23PH/AC/PC33

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To impart basic knowledge on elasticity and other properties of matter.
- To train the students to acquire the basics of surface tension and viscosity.
- To enable the students to understand moment of inertia and the oscillation of a body.
- To familiarise the students on the wave nature of light.
- To illustrate the students to the concept of special theory of light.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic ideas of physical properties of different states of matter, motion of a rigid body, relativity and wave nature of light.	K1
CO2	understand the elastic nature of solids, surface tension, viscosity of liquids, oscillation of a rigid body, constant nature of velocity of light in free space and physical optics.	K2
CO3	apply the knowledge obtained to determine the bending moment, modulus of elasticity, coefficient of viscosity, surface tension, period of oscillation, transformation equation and wavelength.	K3
CO4	study the distinguishing characteristics of solid, liquid and light.	K4
CO5	impart analytical skills to solve problems related to properties of matter, liquids, relativity and wave nature of light.	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Properties of Matter 1.1 Elasticity: Moduli of elasticity – Poisson’s ratio- Young’s modulus – Bending of beams - Expression for bending moment - Depression at the loaded end of the cantilever - Depression and elevation at the mid-point of a loaded beam - Torsion in a wire – Torsional oscillations – Torque per unit twist- Expression for period.	K1-K5	6	1-5
2	Surface Tension and Viscosity 2.1 Introduction - Experimental determination of surface tension and interfacial surface tension by drop weight method – Variation of surface tension with temperature. 2.2 Viscosity - Streamline and turbulent flow – Critical velocity - Expression for critical velocity- Poiseuille’s method for determining coefficient of viscosity of a liquid (Variable Pressure Head) - Variation of viscosity with temperature.	K1-K5	7	1-5
3	Mechanics 3.1 Dynamics: Moment of Inertia – Definition - Compound pendulum - Expression for the period of oscillation - Centre of suspension and Centre of oscillation – Minimum period of oscillation of a compound pendulum - Determination of ‘G’.	K1-K5	6	1-5
4	Relativity 4.1 Newton’s laws of motion and its limitations - Inertial frames of reference – Newtonian relativity – Galilean transformation equations. 4.2 Postulates of special theory of relativity - Lorentz transformation equations - Length contraction - Time dilation - Twin paradox and Meson paradox 4.3 Relativistic Momentum (no derivation) – Mass-Energy relation- Physical significance.	K1-K5	13	1-5
5	Optics 5.1 Interference: Introduction - Interference due to reflected light – Newton’s rings – Measurements of wavelength - Air wedge – Determination of diameter of a thin wire by air wedge. Diffraction: Introduction - Fraunhofer diffraction - Transmission grating - Normal incidence – Determination of wavelength. 5.2 Polarisation: Introduction - Plane of polarization - Polarisation by refraction - Brewster’s law - Polarization by reflection - Double refraction – Nicol prism – Nicol prism as a polarizer and analyser – Polaroids - Uses of polaroids	K1-K5	7	1-5

BOOKS FOR STUDY

Murugesan R., *Properties of Matter*, S. Chand and Company Pvt. Ltd., New Delhi, 2020.
 Naranyanamurthi M, and Nagarathnam N., *Dynamics*, The National, Chennai, 1996.
 Naranyanamurthi M, and Nagarathnam N., *Statics*, The National, Chennai, 1994.

Subrahmanyam N and Lal Brij, *Textbook of Optics*, 23rd Revised edition, Vikas, New Delhi, 2013.

BOOK FOR REFERENCE

PATTERN OF ASSESSMENT

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 × 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

All K1 – K5 levels to be assessed

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PC33												
III	Course Title: PHYSICS FOR CHEMISTRY I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	1	1	1	3	2	2	2	2
CO 2	3	3	2	1	3	1	1	1	3	3	2	1	2
CO 3	3	3	3	1	3	1	1	1	3	3	2	3	2
CO 4	3	3	3	1	3	1	1	1	3	2	2	1	2
CO 5	3	3	3	1	3	1	1	1	3	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL I

CODE:23PH/AC/P132

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data.	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

Experiments	CL	Hrs	CO
1. Determination of 'g' - Compound Pendulum. 2. Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope 3. Young's Modulus 'E' by Uniform Bending-Scale and Telescope 4. Rigidity Modulus 'G' - Torsional pendulum 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7. Determination of resistance and Specific Resistance - Post Office Box 8. Characteristics of a Zener Diode 9. Verification of Newton's Law of Cooling for two liquids	K1-K5	39	1-5

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan V., and Balakrishnan R., *A Text Book of Practical Physics, Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P132												
III	Course Title: PHYSICS PRACTICAL I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

Allied Core offered by the Department of Chemistry for B.Sc. Physics Degree Programme

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF CHEMISTRY I

CODE: 23CH/AC/FC33

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To impart introductory knowledge of organic compounds and concepts in organic chemistry
- To facilitate learning of the fundamentals of polymer chemistry
- To enable understanding the important structural aspects and functions of amino acids, proteins and carbohydrates
- To instil knowledge about the kinetics of zero, first and second order reactions and the effect of temperature on rates of reactions.
- To introduce the basics of acid-base theories and buffer solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify various organic functional groups, label compounds, define terms related to polymers, biomolecules, kinetics and ionic equilibrium	K1
CO2	compare types of organic intermediates and reactions, indicate the uses of polymers and study of ionic equilibria, discuss structures of biomolecules and summarise the kinetics and equilibrium conditions of reactions	K2
CO3	classify molecules and calculate various physical parameters of compounds	K3
CO4	predict functionality of different organic molecules, biomolecules and polymers, differentiate between various reactions using kinetics and analyse the strength of acids and bases	K4
CO5	evaluate and estimate physical parameters to study reaction mechanisms of various molecules	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Organic Chemistry 1.1 Identification of common functional groups in Organic compounds (alcohols, amines, alkyl halides, aldehydes, ketones, carboxylic acids, esters and amides) 1.2 Nature of bond fission- homolytic and heterolytic, types of reagents - nucleophile and electrophile (examples) 1.3 Types of intermediates - carbocations, carbanions and free radicals - definition, structure and examples 1.4 Substitution, Addition and Elimination Reactions- definition with an example each	K1-K4	6	1-4
2.	Polymer Chemistry 2.1 Classification of Polymers, types of polymerisations - addition (cationic, anionic and free radical mechanism) and condensation 2.2 Thermosetting and Thermoplastics –Definition with examples, Structure and Applications of Polyethylene, Polyvinylchloride, Nylon 66 and Bakelite, Natural and synthetic rubber, vulcanisation of rubber 2.3 Biodegradable and non-biodegradable polymers	K1-K5	10	1-5
3.	Chemistry of Biomolecules 3.1 Amino acids – Classification based on R groups, Zwitter ion and isoelectric point- definition and illustrations, chemical reactions of amino acids- Ninhydrin test 3.2 Polypeptides-Introduction and nomenclature, Proteins-Structure (primary, secondary, tertiary and quaternary) and functions, Denaturation and Renaturation of proteins 3.3 Carbohydrates- Classification, structure of Glucose and Fructose –Fischer and Haworth projections, Structure and uses of Maltose and Sucrose, Starch-structure and reaction with iodine, Uses of starch and cellulose 3.4 Analysis for carbohydrates- Molisch, Barfoed, Tollen's and Fehling's tests, preparation of Osazone derivative	K1-K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
4.	Chemical Kinetics 4.1 Rate of reaction, Order and Molecularity 4.2 Zero order, First order, Pseudo-unimolecular and Second order reactions. 4.3 Determination of order – Graphical, Half - life, Integrated rate equation and Ostwald's isolation methods 4.4 Energy of activation - Effect of temperature on reaction rates-Arrhenius equation	K1-K5	7	1-5
5.	Ionic Equilibrium 5.1 Acid-base concept - Arrhenius, Lowry Bronsted and Lewis Concepts 5.2 Strength of acids and bases- Dissociation constants of acids (K_a), bases (K_b) and water (K_w), pK_a , pK_b and pK_w 5.3 Definition of pH and pOH, significance of pH scale 5.4 Buffer solutions – Types, buffer action, Derivation and importance of Henderson- Hasselbach equation	K1-K5	6	1-5

BOOKS FOR STUDY

Puri B. R., Sharma L. R. and Pathania M. S. *Principles of Physical Chemistry*. New Delhi: Vishal, 2018.

Puri B. R., Sharma L. R. and Kalia K. C. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2017.

Jain M. K. and Sharma S. C., *Modern Organic Chemistry*. Punjab: Vishal Publishing & Co, 2020

Jain J. L., Jain S. and Jain N. *Fundamentals of Biochemistry*, New Delhi: Sultan Chand & Company Ltd, 2006.

Yesodha Doraiswamy, Swaminathan Geetha and V. Radhakrishnan, *Allied Biochemistry*, Chennai: Margham Publications, 2002.

BOOKS FOR REFERENCE

Furniss *et al.* *Vogel's Text Book of Practical Organic Chemistry*, London: ELBS, 2006. Morrison R. T., Boyd R. N and Bhattacharjee S. K. *Organic Chemistry*, 7th Ed. Noida: Pearson Education, 2012.

WEBSITES

<https://www2.chemistry.msu.edu>
<https://www.lkouniv.ac.in>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> • Three questions to be set • Two questions to be answered out of three • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> • One question to be set with either/or pattern • Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> • Seven questions to be set • Six questions to be answered out of seven. • Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> • Five questions to be set • Four questions to be answered out of five • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> • Two questions to be set with either/or pattern • Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FC 33												
II	Course Title: FUNDAMENTALS OF CHEMISTRY - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	2	3	2	2	2	2
CO 2	3	3	2	2	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	2	2	2	3	1	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	1	3	3	3	2	2
CO 5	3	3	2	2	3	3	2	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

Allied Core offered by the Department of Chemistry for B.Sc. Physics Degree Programme

SYLLABUS

(Effective from the academic year 2023–2024)

BIOCHEMISTRY PRACTICAL I

CODE: 23CH/AC/P132

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To enable understanding of the principles of biochemistry through laboratory techniques
- To impart the skills required to perform various chemical reactions in a laboratory
- To instill understanding of the classification of biomolecules based on their structure and property
- To introduce the principles behind the techniques involved

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the procedure for the analysis of carbohydrates, amino acids and proteins.	K1, K2
CO2	identify various carbohydrates, amino acids and proteins based on their structure and property	K3
CO3	distinguish various carbohydrates, amino acids and proteins based on the structural characteristics	K4
CO4	perform chemical reactions in a laboratory according to standard procedure and safety precautions	K5
CO5	analyse a given organic compound qualitatively and identify carbohydrates, amino acids and proteins	K6

UNIT	CONTENT	CL	Hrs	CO
1.	Qualitative Analysis of Carbohydrates 1.1 Reactions of Carbohydrates Glucose, Fructose, Maltose, Sucrose and Starch 1.2 Identification of Unknown Organic Compound	K1-K6	13	1-5
2.	Qualitative Analysis of Amino acids 2.1 Reactions of Amino Acids - Reactions of Tryptophan, Tyrosine, Arginine and Cysteine 2.2 Identification of Unknown Organic Compound	K1-K6	13	1-5
3.	Qualitative Analysis of Proteins 3.1 Reactions of Proteins - Reactions of Casein and Egg Albumin 3.2 Identification of Unknown Organic Compound	K1-K6	13	1-5

BOOKS FOR STUDY

Swaminathan G. and George M. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 3 hours**

Analysis	-	50 marks
Preliminary reaction	-	15 marks
Confirmatory tests with all colour tests	-	30 marks
Final report	-	05 marks

End-Semester Examination: **Total Marks: 50** **Duration: 3 hours**

Analysis	-	50 marks
Preliminary reaction	-	15 marks
Confirmatory tests with all colour tests	-	30 marks
Final report	-	05 marks

Sections	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K4	10	Subjective
Experiment	K5-K6	40	Subjective

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CH/AC/P132												
III	Course Title: BIOCHEMISTRY PRACTICAL - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	2	1	3	2	2	2	2
CO 2	3	3	2	1	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	1	2	2	3	2	3	3	3	2	2
CO 4	3	3	2	1	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	1	3	3	2	1	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

MATHEMATICAL PHYSICS

CODE:23PH/MC/MP44

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To impart knowledge about various mathematical tools employed to study physics problems.
- To guide students to Understand Vector calculus and discuss in detail the divergence, curl and gradient.
- To enable students to learn various mathematical techniques.
- To facilitate students to apply the knowledge of vector integrations and differentiation equations to physics problems.
- To appreciate the Calculus of real variable is extended to complex variables and various interesting results are discussed.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on basics of vector calculus and complex variables.	K1
CO2	understand divergence, gradient and curl and their physical interpretation, Vector differentiation and integration, divergence theorem, Green's theorem, Stokes' theorem and appreciate its applications, math of complex number and application of Cauchy-Riemann Equations.	K2
CO3	apply the mathematical methods into various physical systems.	K3
CO4	Perform vector differentiation and integration, analyze the vector fields and apply to Electro-Magnetic fields.	K4
CO5	Develop problem solving skills and appreciate the significance of mathematical methods in Physics.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Vector Calculus 1.1 Scalar point function and vector point function – Gradient of a scalar field - Geometrical meaning of gradient, normal - Normal and directional derivatives. 1.2 Vector differentiation – Determination of velocity and acceleration from position vector - Partial differentiation of vectors	K1- K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Vector Analysis 2.1 The divergence of a vector function – Physical interpretation of divergence - The curl or rotation of a vector function - Physical meaning of Curl – Directional derivative 2.2 Gauss' law in differential form-Relations between Gradient, Divergence and Curl – Electrostatic Potential and Field – Maxwell's Equations.	K1- K5	13	1-5
3	Vector Integration 3.1 Vector Integration: Ordinary integrals of vectors - Line integrals - Surface integrals - Volume integrals. 3.2 Gauss's Divergence Theorem - Statement and physical interpretation - Stoke's theorem and Green's theorem (Statement Only) - Poisson's equation and Laplace's equations - Their applications in Gravitation, Hydrodynamics and Electromagnetism.	K1- K5	13	1-5
4	Differential Equations 4.1 Initial and boundary value problems - Applications of first order differential equations - Falling body problems - Electrical circuits (RL and RC) – Growth and decay problems 4.2 Second order differential equations with constant coefficients: The characteristic equation – General solutions - Applications of second order differential equations - (i) System of springs (ii) Electrical circuits (LCR).	K1- K5	13	1-5
5	Complex Analysis 5.1 Complex numbers – fundamental laws of algebra on complex numbers – Argand diagram – Properties of moduli – Arguments – Geometry of complex numbers – General equations of line and circle. 5.2 Functions of a complex variable – Continuity and differentiability – Analytic function – Cauchy Riemann equation – Laplace equation – Harmonic function - Elementary function - Exponential, trigonometric, logarithmic function and branch points.	K1- K5	13	1-5

BOOKS FOR STUDY

Gupta B.D., *Mathematical Physics*, 4th edition, Vikas Publishing House, New Delhi, 2010.
 Satyaprakash, *Mathematical Physics*, 6th edition, Sultan Chand, New Delhi, 2014.
 Bronson Richard, *Schaum's Outline of Theory and Problems of Differential Equations*, 4th edition, Tata McGraw Hill, New Delhi, 2014.
 Murray R. Spiegel., *Schaum's Outline of Theory and Problems of Vector Analysis*, 2nd edition, Tata McGraw Hill, New Delhi, 2014.

BOOKS FOR REFERENCE

Dass H.K. *Mathematical Physics*. 1st edition, S. Chand, New Delhi, 2001.
 Prakash Satya. *Mathematical Physics with Classical Mechanics*. 6th edition, Sultan Chand, New Delhi, 2004.
 Murray R. Spiegel. *Schaum's Outline of Theory and Complex Variables*. 2nd edition, Tata McGraw Hill, New Delhi, 2014.

JOURNALS

Journal of Mathematical Physics
 Communications in Mathematical Physics

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 1 hour 30 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/MP44												
IV	Course Title: MATHEMATICAL PHYSICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	1	1	1	1	3	3	2	2	1
CO 2	3	3	3	2	1	1	1	1	3	3	1	2	1
CO 3	3	3	3	2	1	2	1	1	3	3	1	2	1
CO 4	3	3	3	2	1	1	1	1	3	3	1	2	1
CO 5	3	3	2	2	1	1	1	1	3	3	1	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

EXPERIMENTAL PHYSICS IV

CODE:23PH/MC/P442

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To enable the students to understand the theoretical and practical knowledge required to perform general and electronic experiments.
- To enhance students learning through hands-on experience.
- To guide the students to observe and measure various physical quantities through scientific approach.
- To equip the students to interpret and report the measurement to draw valid conclusions.
- To facilitate the students to analyze the results of the experiment with an aim to construct or design an equipment or a device for application.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the theoretical concepts with the experiments.	K1, K2
CO2	apply the theoretical knowledge in both general and electronic experiments to acquire the necessary data.	K3
CO3	analyse and interpret the quantitative results utilizing mathematical and graphical verification.	K4
CO4	determine the various physical properties using scientific instruments.	K5
CO5	develop analytic ability from the technical knowledge gained through hands on training.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

EXPERIMENTS	CL	Hrs	CO
1. Resolving Power of Grating - Spectrometer 2. Newton's Law of Cooling – (i) Verification (ii) Determination of Specific Heat Capacity of a Liquid (iii) Determination of Emissivity of the Surface 3. Determination of Specific Heat Capacity of a Liquid – Using Joule's Calorimeter and Determining Resistance of the Coil using P.O Box – Applying Barton's Correction 4. Determination of Self Inductance using LCR Resonance Circuit 5. EMF of a thermocouple - Potentiometer 6. Comparison of Capacitance – Ballistic Galvanometer 7. Latent Heat of Fusion of Ice – Applying Barton's Correction 8. Determination of Specific Rotatory Power of given solution - Polarimeter 9. Characteristic RC Coupled Amplifier	K1-K6	39	1-5

BOOKS FOR STUDY

Ouseph C. C., Srinivasan V. and Balakrishnan R., *A Text Book of Practical Physics. Vol. I & II.* S. Viswanathan, Chennai, 2009.

Chattopadhyay D. and Rakshit P.C., *An Advanced Course in Practical Physics*, 10th Revised Edition, New Central Book Agency, New Delhi, 2013.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

End Semester Examination: Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/P442												
IV	Course Title: EXPERIMENTAL PHYSICS IV												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	1	1	3	3	2	2	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 3	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	1	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	1	3	3	1	1	3	3	3	3	3
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from academic year 2019-2020)

PHYSICS FOR CHEMISTRY II

CODE:23PH/AC/PC43

CREDITS:3

LTP:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To impart basic knowledge on the principles of Physics in electricity, magnetism and electronics.
- To familiarize students with interaction of light waves through LASER, MASER and fibre optics.
- To expose to the concept of Boolean algebra, k map and operational amplifiers.
- To guide the students to understand the algebraic operations and its implementations in digital circuits.
- To facilitate the students to appreciate the significance of physics in day-to-day life.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the theoretical and experimental background of electricity and magnetism and electronics.	K1
CO2	understand the concepts of electricity and magnetism, LASER, characteristics of optical fibre and the working of digital circuits.	K2
CO3	apply the theoretical concepts and appreciate its significance in the related fields.	K3
CO4	evaluate important parameters in the field of electricity, magnetism, fibre optics and to analyse digital circuits.	K4
CO5	develop problem solving skills by applying the theory pertaining to different field of physics.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Electricity 1.1 Coulomb's Law of inverse squares - Flux of electric field - Gauss's law –Application of Gauss's law - To determine field of a point charge, spherical charge distribution, infinite line charge distribution and cylindrical charge distribution. 1.2 Conservative nature of electrostatic field – Electric field – Electric potential – Potential at a point due to point charge - Relation between potential and field strength. Capacitance: Principle - Capacitance of a spherical plate capacitor.	K1- K5	8	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Magnetism 2.1 Magnetic field - Force on a charge in a magnetic field - Force on a charge in an electromagnetic field (Lorentz Force) – Biot-Savart law- Maxwell's electromagnetic equations (no derivations) - Physical significance of the equations. 2.2 Torque on a current loop - Force on a current carrying conductor in a magnetic field – Moving coil Ballistic Galvanometer - Figure of merit of Ballistic Galvanometer for charge and current sensitivity.	K1- K5	7	1-5
3	Properties of Magnetic Materials 3.1 Magnetization - Relation between three electric vectors B, H and M - Magnetic susceptibility - Relation between relative permeability and susceptibility- Magnetic properties of materials - Dia, para and ferro - Electron theory of magnetism. 3.2 Hysteresis - Magnetometer method of drawing hysteresis curve (Horizontal Model) - Energy loss – Retentivity - Coercivity - Uses of hysteresis curves.	K1- K5	7	1-5
4	Modern Physics 4.1 MASER: Introduction - Description and working of Ammonia MASER – Applications. LASER : Spontaneous and stimulated emission- – Population inversion, pumping and active system– Carbon dioxide LASER - Uses of LASER. 4.2 Holography: Principles – Recording of holograms – Reconstruction of hologram – Applications. Fibre Optics: Principles – Structure and classification – The Numerical aperture – Applications.	K1- K5	9	1-5
5	Electronics 5.1 Introduction to Amplifiers - Operational Amplifier - Ideal Op - Amp - CMRR - Inverting and non-inverting Op-Amp – Summing - Difference - Integrator and differentiator Op - Amp. 5.2 Boolean Algebra- De Morgan's Theorem – Verification. Algebraic simplification – Implementation of Boolean algebra into circuits.	K1- K5	8	1-5

BOOKS FOR STUDY

R. Murugesan, *Electricity and Magnetism*, S.Chand and Co. Pvt.Ltd, New Delhi, 2017.
 Mehta V.K., *Principles of Electronics*, S.Chand and Co, Pvt. Ltd, New Delhi, 2014.
 Murugesan.R. *Modern Physics*, S.Chand and Co. Pvt. Ltd, New Delhi, 2013.
 Murugesan R. and Kiruthiga Sivaprasath, *Optics and Spectroscopy*, S. Chand and Co, Pvt. Ltd. 7th revised edition, NewDelhi, 2010.
 Gaur R.K., Gupta S.L., *Engineering Physics*, Dhanpat Rai, New Delhi, 2022.

BOOKS FOR REFERENCE

Haliday, David and Robert Resnick. *Physics Vol. II*. New Age, Chennai, 1995.

Kakani S.L. and Bhandari K.C., *A Text Book of Optics*, Sultan Chand, New Delhi, 2002.

Laud B.B., *Lasers and Non – Linear Optic*, Wiley Eastern, New Delhi, 1991.

Subrahmanyam N. and Lal Brij., *A Text Book of Electricity and Magnetism*, Agra: RatanPrakash, 1994.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PC43												
IV	Course Title: PHYSICS FOR CHEMISTRY II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	2	1	1	1	3	1	2	1
CO 2	3	3	2	2	2	2	1	1	2	2	2	2	2
CO 3	3	3	3	2	2	2	1	1	1	3	1	2	1
CO 4	3	3	3	2	3	3	1	1	1	3	2	2	1
CO 5	3	3	3	2	2	2	1	1	1	2	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL II

CODE:23PH/AC/P242

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data.	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

EXPERIMENTS	CL	Hrs	CO
1. Rigidity Modulus 'G' by Static Torsion 2. Determination of Radius of Curvature of a Lens - Newton's Rings 3. Grating – Normal Incidence - Determination of Wavelengths (λ) of Prominent lines of mercury spectrum - Spectrometer 4. Determination of Specific Heat of a Liquid – Joule's Calorimeter – Applying Half Time Correction 5. Ammeter Calibration (Low Range) - Potentiometer 6. OPAMP- Inverting and Non Inverting Amplifier 7. Specific Heat Capacity of a Solid – Method of Mixtures 8. Determination of Specific Resistance - Carey Foster's bridge 9. Coefficient of Viscosity – Poiseuille's Method	K1-K5	39	1-5

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan V., and Balakrishnan R., *A Text Book of Practical Physics, Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:**Total Marks: 50****Duration: 3 hours**

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P242												
IV	Course Title: PHYSICS PRACTICAL II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course offered to students for
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23PH/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group discussions
- Group presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Allied Core offered by the Department of Chemistry for
B.Sc. Physics Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF CHEMISTRY II

CODE: 23CH/AC/FC43

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To facilitate learning of various concentration terms and apply them for numerical calculations
- To enable comprehension of the basics of electrochemistry
- To introduce the importance of phase diagrams
- To provide fundamental knowledge of coordination complexes
- To instil understanding of the basics of thermoanalytical methods

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Define the terms prevalent in Mole Concept, Electrochemistry, Phase rule, Coordination Chemistry and Thermoanalytical methods	K1
CO2	Explain the importance of concentration terms, differentiate the types of electrochemical cells, electrodes, reactions and batteries, indicate phase changes in systems, describe the behavior of complexes and instrumentation of thermoanalytical techniques	K2
CO3	Calculate equivalent weights, number of moles, normality, molarity, molality, ppm and ppb, number of degrees of freedom, magnetic moment of complexes, sketch thermograms	K3
CO4	Analyse and categorise solutions and substances based on concentration terms, examine electrochemical behavior of different metals and their salts, outline the phases present in different systems, investigate varied structures of complexes and thermal behavior of compounds	K4
CO5	Propose preparation of solutions of varied concentrations, devise construction of electrochemical cells, reconstruct phase diagrams and formulate complexes	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Mole concept 1.1 Definition of mole and applications of mole concept in stoichiometry 1.2 Equivalent weight – calculation of equivalent weight of oxidants and reductants in redox reactions, acids and bases, molecular volume 1.3 Concentration terms used to express strength of solutions- Normality, Molarity, Mole fraction and Molality, ppm and ppb	K1-K5	7	1-5
2.	Electrochemistry 2.1 Definition of specific, equivalent & molar conductance, effect of dilution on Conductance 2.2 Ostwald dilution law, Kohlrausch's law – applications 2.3 Conductometric titration – principle and types 2.4 Electrochemical cells - definition, representation of cells and cell reactions, types of electrodes-standard hydrogen and calomel electrodes, Nernst equation- significance, standard electrode potential and its measurement, electrochemical series-applications 2.5 Commercial cells – Primary and Secondary cells, Fuel cells- Hydrogen-Oxygen, Batteries- Lead storage battery, Nickel-Cadmium battery	K1-K5	10	1-5
3.	Phase rule 3.1 Definitions - Phase, component and degree of freedom, Derivation of phase rule. 3.2 Application of phase rule to one component systems (water and carbon dioxide) 3.3 Two component systems: simple eutectic (Pb-Ag) and (Bi-Cd)	K1-K5	6	1-5
4.	Coordination Chemistry 4.1 Coordination complexes - definition, types of ligands, IUPAC nomenclature of simple mononuclear complexes 4.2 Isomerism – Structural - ionisation, linkage, ligand, coordination and hydrate isomerism. Stereoisomerism-geometrical and optical isomerism of four coordinated complexes. 4.3 Pauling theory (VBT) - geometry of complexes based on hybridization (coordination number 4 and 6) magnetic moment of complexes. 4.4 Biological coordination compounds - structural features (figurative representation only), functions of Haemoglobin and Vitamin B12	K1-K5	8	1-5
5.	Thermoanalytical Methods 5.1 TGA and DTA - Principle, Instrumentation, methods of obtaining Thermograms, factors affecting TGA/DTA, Thermal analysis of silver nitrate, calcium oxalate and calcium acetate 5.2 DSC - Principle, Instrumentation and applications.	K1-K5	8	1-5

BOOKS FOR STUDY

Puri B. R., Shama L. R. and Pathania M. S. *Principles of Physical Chemistry*. New Delhi: Vishal, 2020.

Puri B. R., Shama L. R. and Kalia C. I. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2018.

Bahl A. Bahl B. S. and Tuli J. D. *Essentials of Physical Chemistry*, New Delhi: S. Chand & Co., 2018.

Gopalan R. and Ramalinga V. *Concise Coordination Chemistry*, New Delhi: Vikas Publishing, 2011.

Gopalan R., Subramanian P. S. and Rengarajan K. *Elements of Analytical Chemistry*. S. Chand, 2007.

BOOKS FOR REFERENCE

Barrow G. M. *Physical Chemistry* 5th Ed. Noida: McGraw Hill Education, 2008.

Skoog D., West D., Holler J. and Crouch S. *Fundamentals of Analytical Chemistry*, 9th Ed. Boston: Cengage, 2013.

WEBSITES

<https://ocw.mit.edu>

<https://www.2chemistry.msu.edu>

<https://www.chemtube3d.com>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> • Three questions to be set • Two questions to be answered out of three • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> • One question to be set with either/or pattern • Questions can be set with or without subdivisions

Other Component:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FC43												
IV	Course Title: FUNDAMENTALS OF CHEMISTRY - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	2	3	2	2	2	2
CO 2	3	3	2	2	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	2	2	2	3	1	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	1	3	3	3	2	2
CO 5	3	3	2	2	3	3	2	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Allied Core Offered by the Department of Chemistry for
B.Sc. Physics Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

GENERAL CHEMISTRY PRACTICAL

CODE: 23CH/AC/P342

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To enable understanding of the principles and theories associated with different experiments
- To impart the skills required to estimate varied parameters and concentrations of substances by experiments and volumetric analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the principles of different experiments and volumetric estimations	K1
CO2	distinguish between the various parameters studied during the conduction of the experiments, compare the types of volumetric estimations carried out	K2
CO3	calculate rate constant and concentrations of substances	K3
CO4	predict the direction of the experiments conducted, practice the skills acquired while doing the experiments	K4
CO5	prepare different solutions to test experimentally, estimate the weight of substances used, validate and verify the results	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Experiments and Volumetric Estimations 1.1 Principle and theory of varied Physical Chemistry Experiments and Volumetric Estimations	K1-K4	5	1-4
2.	Phase Equilibria and Kinetics (Group Experiments) 2.1 Kinetics Study of Acid Hydrolysis of an Ester 2.2 Determination of Molecular Weight by Rast Method Conductometry and Potentiometry (Group Experiments) 2.3 Determination of Strength of Weak Acid by Conductometry 2.4 Determination of Fe ²⁺ by Potentiometry using Potassium Dichromate	K1-K6	17	1-5

3.	Volumetric Estimations	K1-K6	17	1-5
	3.1 Estimation of Oxalic Acid (Permanganimetry)			
	3.2 Estimation of Magnesium (Complexometry)			
	3.3 Estimation of Ferrous Ion (Permanganimetry)			
	3.4 Estimation of Glycine (Sorensen's method)			

BOOKS FOR STUDY

Venkateswaran V., Veeraswamy R. and Kulandaivelu A. R. *Basic Principles of Practical Chemistry*. New Delhi: Sultan Chand & Sons, 2012.

Sundaram S., Krishnan P. and Raghavan P.S. *Practical Chemistry Part II*. Madras: Viswanathan S. Printers and Publishers, 2009.

Swaminathan G. and George M. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, (2010).

BOOK FOR REFERENCE

Vogel, A.I. *A Text Book of Quantitative Inorganic Analysis Including Elementary Instrumental Analysis*. London: ELBS, 1989.

Mendham J., Denney R. C., Barnes J. D., Thomas M. and Sivasankar B. *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson Education, 2009.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 Hours

Equations and Short Procedure	-	10 marks
Experiment	-	40 marks
Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5.0% error	-	20 marks
Above 5%	-	15 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Equations and Short Procedure	-	10 marks
Experiment	-	40 marks
Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5.0% error	-	20 marks
Above 5%	-	15 marks

Section	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K4	10	Subjective
Experiment	K5-K6	40	Subjective

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Sc. DEGREE: BRANCH III - PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

MICROPROCESSORS AND MICROCONTROLLERS

CODE: 23PH/MC/MM53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To impart basic knowledge on the architecture, working principles of microprocessor 8085 and microcontroller 8051.
- To enable the students to understand the BUS structure, architecture and its working, the various instructions and addressing modes, interfacing techniques and interrupt principles of microprocessor 8085.
- To train the students in examining the instructions of microprocessor 8085 and identify the addressing mode, length of instruction of every instruction and the operation modes of the interfacing devices.
- To equip the students to analyze the working mechanism of CPU, logical flow of program, functions of interfacing devices and various interrupts of microprocessor 8085.
- To facilitate the students in writing assembly language program in microprocessor 8085 to solve and evaluate various arithmetic and logical problems.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire basic knowledge on the architecture, working principles of microprocessor 8085 and microcontroller 8051.	K1
CO2	understand the BUS structure, architecture and its working, the various instructions and addressing modes, interfacing techniques and interrupt principles of microprocessor 8085, concept of embedded system.	K2
CO3	examine the instructions of microprocessor 8085 and identify the addressing mode, length of instruction of every instruction and the operation modes of the interfacing devices.	K3
CO4	analyze the working mechanism of CPU, logical flow of program, functions of interfacing devices and various interrupts of microprocessor 8085 and compare the functions of microprocessors and microcontrollers.	K4
CO5	write assembly language program in microprocessor 8085 to solve and evaluate various arithmetic and logical problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Central Processing Unit (CPU) 1.1 Bus Structure - Address, data and control system bus - Memory and I/O interface block diagram - CPU 8085. 1.2 Architecture: General purpose registers, ALU, accumulator, program counter, instruction register, stack, subroutines, push/pop operations, flag register.	K1-K5	12	1-5
2	Addressing Modes and Instruction Set 2.1 Addressing Modes: Direct, register, immediate, register in-direct addressing modes. 2.2 Instruction Set: Data transfer group, arithmetic group, and logic group instruction.	K1-K5	10	1-5
3	Software Program 3.1 Arithmetic Operations: Addition, subtraction, multiplication and division of single byte numbers - Square root of a positive single byte number. 3.2 Sorting an array in ascending/descending order. 3.3 Conversion of BCD to HEX and vice versa.	K1-K5	10	1-5
4	Interfacing I/O devices and Interrupt Circuit 4.1 Type of Interfacing Devices: Address decoding for I/O - Input and output ports. 4.2 8085 Interrupt circuit - Restart instructions - Hardware interrupts - Interrupt priorities.	K1-K5	10	1-5
5	Micro-Controller 5.1 Micro-Controller - 8051 – Architecture – Applications. 5.2 Embedded system concept - Embedded microcontroller Pic series – Applications.	K1-K5	10	1-5

BOOKS FOR STUDY

Ramesh Gaonkar, *Microprocessor Architecture, Programming and Applications with the 8085*, Penram, New Delhi, 2013.
 Adithya P. Mathur, *Introduction to Microprocessors*, Tata McGraw Hill, New Delhi, 2017.
 Vahid Frank and Givargis Tony, *Embedded System Design-Unified Hardware Software Introduction*, John Wiley, New Delhi, 2002.

BOOKS FOR REFERENCE

Vijayendran, V, *Fundamentals of Microprocessor- 8085 Architecture Programming and Interfacing*, S. Viswanathan, Chennai, 2006.
 Er. R Gopalsamy, *Microcontroller*, Veni, Madurai, 2004.
 Ghosh A.K. and P.K. Sridhar, *0000 to 8085 Introduction to Microprocessor for Engineers and Scientists*, PHI, New Delhi, 1995.
 Kenneth J. Ayala, *8051 Microcontroller – Architecture, Programming and applications*, Penram, New Delhi, 1996.
 Mohammed Rafi Qubban. *Microprocessors and Microcomputer – Based System Design*, UBS, New Delhi, 1986.
 Rajkamal, *Microcontroller, Architecture, Programming, Interfacing and System Design*, Pearson, U. K, 2005.

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 1 hour 30 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/MM53												
V	Course Title: MICROPROCESSORS AND MICROCONTROLLERS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	1	1	1	3	3	2	2	1
CO 2	3	3	2	1	1	1	1	1	3	3	2	2	1
CO 3	3	3	2	1	1	1	1	1	3	3	3	2	1
CO 4	3	3	2	1	1	1	1	1	3	3	3	3	1
CO 5	3	3	2	1	1	1	1	1	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the year 2023–2024)

SOLID STATE PHYSICS

CODE: 23PH/MC/SS54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide knowledge of crystal structure, crystal bonding and crystal imperfections and their effect on the properties of crystalline solids, theoretical models predicting the electrical and magnetic behaviour, and superconductors.
- To support the students in comprehending the relation between crystal structure and bonding, and the influence of bonding and defects on the properties of crystals, classification of solids based on their band gap, the electron theories for electrical and thermal conduction in metals, origin of magnetism, the different classifications of magnetic materials and the basic properties of superconductors.
- To help the students in applying the knowledge acquired on crystal structure, interatomic binding, and defects to understand their properties, popular theoretical models to explain observed electric and magnetic behaviour, superconductors to understand their novel applications.
- To encourage the students in developing critical thinking, analytical reasoning, and problem-solving skills.
- To enable the students in appreciating the significance of solid-state physics in many technological applications and realizing that solid-state physics is the gateway to research in material science.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the definitions and concepts connected with crystal structure, interatomic bonding, electric and magnetic behaviour, and superconductivity.	K1
CO2	summarize regular crystal structures, how X-ray diffraction can be used to find structure of crystalline solids, bonding mechanisms using their structure, the impact of bonding and imperfections on the properties of solids, the conductivity of different types of solids based on their band gap, the theories governing the electrical and magnetic properties, the basics of Superconductors and the relevance of solid-state in present-day research.	K2
CO3	utilize the knowledge of crystal structure to understand the properties of solids, the essence of the electron theories to elucidate conduction of heat and current, the magnetism theories to comprehend the origin of magnetism in matter, and the reason for superconducting property.	K3

COs	DESCRIPTION	CL
CO4	do mathematical computations based on theoretical models to describe the properties of solids.	K4
CO5	develop skills in critical thinking, analytical reasoning and solving problems related to solid state physics.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Crystal Structure 1.1 Crystalline and amorphous solids – Crystal lattice and translation vectors - Unit cell vs primitive cell - Basis - Symmetry operations – Five-fold rotation symmetry - Point group and space group - Bravais lattices – Crystal planes and Miller indices. 1.2 Bragg’s Law – Diffraction of crystals by X- rays.	K1 – K5	13	1-5
2	Crystal Bonding and Crystal Defects 2.1 Bonding in solids – Types of bonding - Primary and secondary bonds - Ionic bonding - Properties of ionic solids - Covalent bond – Properties of covalent solids - Metallic bond – Properties of metallic solids – Bond length and bond strength. 2.2. Classification of defects in solids – Types of point defects - Schottky and Frenkel defects - Equilibrium concentration of Schottky and Frenkel defects in Ionic crystals – Effects of crystal imperfections on the electrical, optical, and mechanical properties of solids.	K1 – K5	13	1-5
3	Electrical Properties of Solids 3.1 Classical free electron theory of metals – The Free electron gas – Drude-Lorentz free electron theory – Ohm’s law – Expressions for electrical conductivity – Thermal conductivity - Wiedemann and Franz ratio. 3.2 Band gaps – Metals, semiconductors, and insulators – Fermi level and Fermi surface – Intrinsic semiconductor – Extrinsic semiconductor - Hall effect – Experimental determination of Hall coefficient.	K1 – K5	13	1-5
4	Magnetic Properties of Solids 4.1 Basic definitions - Different types of magnetic materials – Langevin’s theory of paramagnetism - Curie’s law - Failure of Langevin’s Theory - Weiss theory of paramagnetism - Curie-Weiss law. 4.2 Domain theory of ferromagnetism - Origin of domains - Exchange energy - Magnetostatic energy - Anisotropic energy - Domain wall energy - Hysteresis - Explanation of hysteresis with domain Theory - Antiferro and ferrimagnetic materials.	K1 – K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Superconductivity 5.1 Introduction – Properties of superconductors: Critical temperature, critical field, isotope effect, Meissner effect – Entropy, specific heat, thermal conductivity – Types of superconductors – Type I and type II 5.2 First and second London equations drawback of London theory - BCS theory of superconductivity – Electron-lattice -Electron interaction – Cooper pair – Existence of Energy gap - application of superconductors.	K1 – K5	13	1-5

BOOKS FOR STUDY

S.O. Pillai. *Solid State Physics*. New Age International Private Limited, New Delhi, 2022.
 Ilangoan. K. *Solid State Physics*. MJP Publisher, 2021.
 Rita John. *Solid State Physics*. McGraw Hill, New Delhi, 2014.
 Singhal, R.L. and Alvi. PA, *Solid State Physics*. Kedar Nath Ram Nath Publishers, Meerut, 2018.

BOOKS FOR REFERENCE

Charles Kittel, *Introduction to Solid State Physics*, 8th edition, Wiley, 2012.
 Saxena, B.S., R.C. Gupta and P.C. Saxena. *Fundamentals of Solid State Physics*, Pragati, Meerut, 2016.
 Azaroff Leonid, V. *Introduction to Solids*. Tata McGraw Hill, New Delhi, 2002.
 Ali Omar M, *Elementary Solid State Physics*, Pearson, India, 2002.
 Saxena. H.C. and Agarwal. K.L. *Principles of Electronics and Solid State Physics*, Ravi, Agra, 2005.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving
 All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/SS54												
V	Course Title: SOLID STATE PHYSICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	3	2	1	1	3	2	2	3	2
CO 2	3	3	3	1	3	2	1	1	3	3	2	3	2
CO 3	3	3	3	1	3	2	1	1	3	3	2	3	2
CO 4	3	3	3	1	3	2	1	1	3	3	2	3	2
CO 5	3	3	3	1	3	3	1	1	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM

CODE: 23PH/MC/EM54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart knowledge of the basic laws and concepts relating to electrostatics and magnetostatics.
- To enable the students to understand the fundamental principles of electromagnetism including concepts like electric field, magnetic field and their mathematical representations.
- To guide the students in applying the concepts of electromagnetic principles to solve real-life problems.
- To equip the students to assess the impact of different charge and current distribution on electric and magnetic boundary conditions.
- To facilitate the students in solving and justifying static electric and magnetic fields, including the behavior of charges and currents in different media.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Acquire knowledge on basic concepts and terms related to electromagnetism, such as electric field, magnetic field, Gauss's Law, and Ampere's Law.	K1
CO2	Describe the principles behind electromagnetic phenomena, including how electric charges interact and how magnetic fields are generated in various medium.	K2
CO3	Apply Maxwell's equations to analyze and solve complex electromagnetic problems.	K3
CO4	Deduce expressions related to Coulomb's Law, Gauss's law, Biot-Savart's law, Ampere's law and Faraday's laws in various systems.	K4
CO5	Assess electric field, electric potential, electric flux, and magnetic field in different symmetry systems.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Electrostatics 1.1 Electrostatic Field - Coulomb's Law – Gauss's Law - Electric potential - Equipotential surfaces - Work done in moving a charge – Electric potential as line integral of electric field.	K1 – K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	1.2 Capacitors - Spherical Capacitor –Cylindrical capacitor - Capacitance of spherical and cylindrical capacitors – Capacitance of a parallel plate capacitor (with and without dielectric slab) – Effect of dielectric – Guard ring condenser – Fixed condenser – Electrolytic condenser – Quadrant electrometer.			
2	Steady Currents 2.1 Current and current density - Equation of continuity - Electrical conductivity – Drude–Lorentz theory – Wiedemann-Franz law. 2.2 Carey foster bridge – Determination of resistivity – Temperature coefficient of resistance – Potentiometer – Calibration of ammeter and voltmeter (low and high range).	K1 – K5	11	1-5
3	Magnetostatics 3.1 Biot–Savart Law – Steady currents – Magnetic fields due to steady currents flowing (i) In a long straight wire at a point near it (ii) Along a circular coil at a point on its axis (iii) Along a solenoid at a point on its axis- Divergence and curl of B. 3.2 Ampere’s Law – (i) Magnetic field at a point near a long straight wire carrying Steady current – (ii) Magnetic field of a long solenoid - (iii) Magnetic field of a toroidal coil – Comparison of magnetostatics and electrostatics- Ballistic galvanometer - Dead beat and BG conditions – Damping- Applications of BG.	K1 – K5	15	1-5
4	Transient currents and Alternating current 4.1 Transient currents – Growth of current in a circuit containing resistance and inductance – Decay of current in a circuit containing L and R - Growth and decay of charge in a circuit containing resistance and capacitors. 4.2 Peak value – Mean value of alternating emf – Root mean square value – Alternating E.M.F applied to a circuit with resistance and capacitance in series and parallel.	K1 – K5	12	1-5
5	Electromagnetic induction and Maxwell’s equation 5.1 Faraday’s Laws - Electromagnetic Induction - Inductance - Self Inductance - Mutual Inductance - Energy in Magnetic Fields – Relation between Self -inductance and Mutual inductance. 5.2 Maxwell’s equations in vacuum, material media – Physical significance of Maxwell’s equations – Displacement current – Plane electromagnetic waves in free space.	K1 – K5	12	1-5

BOOKS FOR STUDY

M. Narayanamurthy and N. Nagarathnam, *Electricity and Magnetism*, 4th Edition, S. Chand, New Delhi 2017.

Sehgal, D.L., K.L. Chopra and N.K. Sehgal. *Electricity and Magnetism*. SultanChand, New Delhi, 2020.

Murugesan. R., *Electricity and Magnetism*, 10th edition, S. Chand and Co, New Delhi, 2019.

Tewari K.K. *Electricity and Magnetism*. S Chand, New Delhi, 2007.

BOOKS FOR REFERENCE

Brijlal and Subramanian, *Electricity and Magnetism*, 6th edition, Ratan and Prakash, Agra.

Halliday David, Resnik Robert and Walker Jearl. *Fundamentals of Physics*, John Wiley, New Delhi, 2005.

Chattopadhyay D. and Rakshit P.C. *Electricity and Magnetism*, New Central Book Agency, Kolkata, 2005.

Griffiths David J. *Introduction to Electrodynamics*. Prentice, New Delhi, 1997.

Mahajan A.S and A. A Rangwala. *Electricity and Magnetism*, Tata McGrawHill, New Delhi, 1988.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/EM54												
V	Course Title: ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	2	1	2	2	2	2	2	1	2	2	2
CO 2	3	2	2	2	2	1	2	2	2	2	2	2	1
CO 3	3	3	2	1	2	2	2	2	2	1	2	2	2
CO 4	2	1	2	2	2	3	2	2	2	1	2	2	2
CO 5	2	3	2	1	2	2	2	2	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

EXPERIMENTAL PHYSICS V

CODE:23PH/MC/P552

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To enable the students to understand the theoretical and practical knowledge required to perform general and electronic experiments
- To enhance students learning through hands-on experience.
- To guide the students to observe and measure various physical quantities through scientific approach.
- To equip the students to interpret and report the measurement to draw valid conclusions.
- To facilitate the students to analyze the results of the experiment with an aim to construct or design an equipment or a device for application.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the theoretical concepts with the experiments.	K1, K2
CO2	apply the theoretical knowledge in both general and electronic experiments to acquire the necessary data.	K3
CO3	analyse and interpret the quantitative results utilizing mathematical and graphical verification.	K4
CO4	determine the various physical properties using scientific instruments.	K5
CO5	develop analytic ability from the technical knowledge gained through hands on training.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

EXPERIMENTS	CL	Hrs	CO
1. i – d Curve - Spectrometer 2. i – i' curve of a prism- Stoke's formula - Spectrometer 3. High Resistance by Leakage - Ballistic Galvanometer 4. Comparison of EMF and Internal Resistance - Potentiometer 5. Determination of thickness of wire - Air wedge 6. Determination of m and M - Field along the Axis 7. Determination of resistance and Specific Resistance - Carey Foster's Bridge 8. Specific Heat Capacity of Liquid – Method of Mixtures – Applying Barton's Correction 9. Young's Modulus of the material of the beam – Koneig's Method	K1-K6	39	1-5

BOOKS FOR STUDY

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II.* S. Viswanathan, Chennai, 2009

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, New Delhi, 2013.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

End Semester Examination: Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/P552												
V	Course Title: EXPERIMENTAL PHYSICS V												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	1	1	3	3	2	2	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 3	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	1	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	1	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

EXPERIMENTAL PHYSICS VI

CODE: 23PH/MC/P652

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various electronic equipment.
- To Develop proficient skills in assembling, testing, and troubleshooting electronic circuits and systems.
- To Teach effective techniques for identifying and rectifying faults or malfunctions in electronic circuits.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To Foster the ability to analyze complex electronic systems, identify issues, and devise effective solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the theoretical electronic concepts in designing the circuits.	K1, K2
CO2	apply the theoretical knowledge in troubleshooting and correcting simple electronic circuit errors.	K3
CO3	analyze the component values needed to achieve specific circuit characteristics	K4
CO4	evaluate the effects of various component values on circuit performance.	K5
CO5	develop analytic ability from the technical knowledge gained through hands-on training	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

EXPERIMENTS	CL	Hrs	CO
1. Flasher using relay – 555 Timer 2. Study of Waveforms - Differentiator and Integrator using IC 741. 3. Light to frequency converter – using IC 555 4. Temperature to Voltage converter – using IC 741 5. OP AMP as an Adder, Subtractor, Inverting and Non- Inverting amplifier, Source follower and Multiplier. 6. Half adder and half subtractor using NAND and NOR gates (7400 and 7402) 7. 4 bit Binary adder (7483 and 7486) 8. Microprocessor application – Arithmetic operation (8 bit)- addition, subtraction, multiplication and division. 9. Microprocessor application- sorting an array in ascending and descending order	K1-K6	39	1-5

BOOKS FOR STUDY

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II*. S. Viswanathan, Chennai, 2009

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, New Delhi, 2013.

Sathian G. Kumar, *Computer Science - Manual for Digital Electronic sand Microprocessor Lab*, 2006.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

End Semester Examination: Total Marks: 50**Duration: 3 hours**

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester 5	Subject Code: 23PH/MC/P652												
V	Course Title: EXPERIMENTAL PHYSICS VI												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	2	2	2	1	2	2	2
CO 2	2	2	2	2	3	1	2	2	2	2	2	2	1
CO 3	3	3	2	2	2	2	2	2	2	1	2	2	2
CO 4	2	1	2	2	2	3	2	2	2	2	2	2	2
CO 5	2	3	2	1	2	2	2	2	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023-2024)

RENEWABLE ENERGY AND ENERGY ECONOMICS

CODE: 23ID/IC/RE55

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of Renewable energy resources.
- To create in students an awareness of current environmental issues and energy policies.
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude.
- To provide an awareness of the importance of energy-sensitive initiatives at the regional, national and international levels.
- To explore the role of various national and international organizations in energy development.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	gain sound knowledge in Energy development and the need for Energy transition in a Developing country like India.	K1
CO2	explain the technological advancements and innovations in renewable energy systems and their impact on energy generation.	K2
CO3	appraise key energy issues to build their ability to emerge as an entrepreneur in the field of Renewable energy	K3
CO4	analyze national and international policies and regulations governing the deployment of renewable energy.	K4
CO5	extend their critical thinking to bring out policies and solutions to key energy issues across the Globe.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Energy Resources 1.1 Energy routes for non-renewable energy resources – Age renewables and alternatives – Moving towards renewable energy sources - Energy conservation practices. 1.2 Types of energy sources - Renewable and non-renewable sources. 1.3 Energy consumption - Energy calculation. 1.4 Evolution of energy economics – Energy Development - Energy – economy linkage – Energy transition 1.5 Current energy issues - Energy intensity – growth of renewable resources.	K1 – K5	17	1-5
2	Solar Energy 2.1 Fundamentals of solar radiation – Nature of solar radiation – Radiation on earth’s surface – Sun path chart. 2.2 Photovoltaics – Principles – Physics and operation of solar cells – Solar panels- Solar power plants - On and Off-grid photovoltaics application - Photovoltaics: country perspective - Visible challenges - Production pattern of solar cells and modules in India 104.	K1 – K5	17	1-5
3	Wind energy 3.1 Introduction – Basic principles of wind energy conversion. 3.2 Nature of wind – Power in the wind -forces on the blades and wind energy conversion – Site selection. 3.3 Classification of wind energy conversion systems – Advantages and limitations.	K1 – K5	16	1-5
4	Micro Foundation 4.1 Demand - Energy demand - Primary and global - Factors affecting energy demand 4.2 Supply- Factors affecting Energy supply 4.3 Market equilibrium - Energy market structure - Non-renewable (Oil) vs renewable energy 4.4 Energy as a public good - Market failure - Externalities.	K1-K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Energy and Environment 5.1 Mechanism to correct imperfection in energy market - Command and Control - Taxes and cap trade mechanism for internalization of environmental externalities. 5.2 Energy and climate change - Energy security - Organizations - UNFCCC (Paris Agreement) , Bureau of Energy Efficiency (India), UNDP. 5.3 Energy efficiency policies- Recent renewable energy policies in India.	K1-K5	13	1-5

BOOKS FOR STUDY

G.D Rai, *Solar Energy Utilization*, 5th edition, Khanna Publishers, 2010.

Thipse S.S., *Nonconventional and Renewable energy sources*, Narosa Publishing House, New Delhi, 2014.

Suneel Deambi, *From Sunlight to Electricity: A practical handbook on solar photovoltaic applications*, 3rd edition, Teri Press, 2018.

Schwarz, P., *Energy Economics*, Routledge, 2022.

Bhattacharyya and Subhes C., *Energy Economics: Concepts, Issues, Markets and Governance*, Springer, 2011.

Banks F.E, *Energy Economics; A Modern Introduction*, Kluwer Academic Publishers, Dordrecht 2000.

Griffin J.H. and H B Steel, *Energy Economics and Policy*, Academic Orlando, 1986

Samuelson Paul A and William D Nordhaus, *Economics*, 19th edition, McGraw Hill Education 2006.

BOOKS FOR REFERENCE

Ramesh R. Kumar and K.U Renewable Energy Technologies, Narosa Publishing House, New Delhi, 1997.

JOURNALS

Energy Economics

International Journal of Energy Economics and Policy

WEB RESOURCES

<https://dokumen.pub/energy-economics-1nbspd-0415676770-9780415676779.html>

<https://mnre.gov.in/public-information/policies-and-guidelines>

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 1 = 5 (MCQ - Economics) 5 x 1 = 5 (MCQ - Physics) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 questions - all compulsory 2:3 or 3:2 Economics: Physics
B	K3	10	2 x 5 = 10 (250 words each) Part A (1 out of 2) 1x 5 = 5 marks Economics Part B (1 out of 2) 1x 5 = 5 marks Physics
	K4	10	2 x 5 = 10 (250 words each) Part A (1 out of 2) 1x 5 = 5 marks Economics Part B (1 out of 2) 1x 5 = 5 marks Physics
C (Combined as one question Physics and Economics)	K5	10	1x10 = 10 (500 words each) 1 out of 2 questions to be answered each question will have part a and part b and the student must answer compulsory one out two questions and complete part a and part b a. Economics (5 marks) b. Physics (5 marks)

Other Components: **Total Marks: 50**
Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	10 x 1 = 10 MCQ - (5 from Physics and 5 from Economics) all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 questions – short answers - all compulsory 5:5 Economics: Physics
B	K3	20	4x 5 =20 (250 words each) 4 out of 6 questions Part A (2 out of 3) 2x 5 = 10 marks Economics Part B (2 out of 3) 2x 5 = 10 marks Physics
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions Part A (2 out of 3) 2x 5 = 10 marks Economics Part B (2 out of 3) 2x 5 = 10 marks Physics
C (Combined as one question Physics and Economics)	K5	20	2 x10 =20 (600 words each) 2 out of 4 questions 2 out of 4 questions to be answered each question will have part a and part b and the student must answer compulsory 2 out 4 questions and complete part a and part b a.Economics (10 marks) b. Physics (10 marks)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/RE55												
V	Course Title: RENEWABLE ENERGY AND ENERGY ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	2	3	2	2	1	1	1	2
CO 2	2	3	2	1	3	3	2	2	2	2	1	1	2
CO 3	2	2	3	1	3	3	3	3	2	2	1	1	2
CO 4	1	2	2	1	3	3	2	2	2	2	1	1	2
CO 5	3	3	3	1	2	2	3	3	2	2	1	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

ELECTRONICS II

CODE:23PH/MC/EL63

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To enable the students to understand the basics of complex circuits via various network theorems.
- To equip the students to design and explain amplifier circuits.
- To familiarize the students on transistor oscillators and their types.
- To expose the students to semiconductor device, performance characteristics and their applications.
- To guide the students to appreciate the working of Optoelectronic devices such as in LED, Photo Diodes.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire basic knowledge of different electronic circuits and their application in real life.	K1
CO2	comprehend the basic construction, working and biasing of semiconductor devices.	K2
CO3	classify the amplifier, oscillator and special function diodes principles and its types.	K3
CO4	employ mathematical and graphical analysis considering different practical issues modelling of semiconductor device; analyze the performance parameters of the system.	K4
CO5	investigate different signal processing circuits and design different application circuits using amplifiers, oscillators and special purpose diodes.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Circuit Analysis and Semiconductor Diode 1.1 Linear circuit analysis - Open and short circuits - The voltage and current divider circuit - Superposition theorem - Transfer theorems – Thevenin's theorems – Norton's theorem. 1.2 Semiconductor diode – Crystal diode rectifiers – Half-Wave rectifier – Output frequency and efficiency of Half-Wave rectifier – Full-Wave rectifier – Centre-Tap and Bridge rectifier.	K1-K5	10	1-5
2	Transistor Amplifiers 2.1 Faithfull amplification - Transistor biasing - Stabilization – Stability factor - Voltage divider bias method– Stability factor - Operating point – DC load lines. 2.2 Single stage transistor amplifier– Practical circuit of transistor amplifier–Multistage transistor amplifier - RC coupled transistor amplifier (No Derivation) – Operation – Frequency response - Advantages – Disadvantages.	K1-K5	12	1-5
3	Transistor Oscillators 3.1 Sinusoidal oscillator – Types of sinusoidal oscillators – Positive feedback amplifiers – Essentials of transistor oscillator – Barkhausen's criterion. 3.2 Types of transistor Oscillators - Colpitts's oscillator – Hartley oscillator – Phase shift oscillator.	K1-K5	10	1-5
4	Special Semiconductor Devices 4.1 Field effect transistors – JFET – Working – Channel conductance – Space charge distribution – Difference between JFET and Bipolar transistor – JFET as an amplifier – IV characteristics – Pinch Off voltage – Parameters of JFET 4.2 Uni Junction Transistor – Construction – Operation – Inter base resistor –Equivalent circuit – Intrinsic stand-off ratio – IV characteristics – Peak voltage valley current – Valley voltage negative resistance region – Relaxation oscillator.	K1-K5	10	1-5
5	Special Function Diodes and Optoelectronic Devices 5.1 Introduction - Tunnel diode- Parameters - Schotkky diode - Varactor diode. Light sources and Displays: Light emitting diodes – Surface emitting LED– Edge emitting LED - Multicolor LED - Seven segment display. 5.2 Photo detectors: Basic Parameters - Photo Diodes - p-i-n photo diode - Solar Cells - Photo Transistors - IR and UV Detectors.	K1-K5	10	1-5

BOOKS FOR STUDY

Mehta V. *Principles of Electronics*, 7th edition, S Chand, New Delhi, 2014.

Sedha R.S. *Applied Electronics*. 4th edition, S Chand, New Delhi, 2019.

Arumugam, M. *Semiconductor Physics and Optoelectronics*, 1st edition, Anuradha Agencies, Kumbakonam, 2003.

Gayakwad R.A. *Op. Amps & Linear Integrated Circuits*, 4th edition, Prentice, New Delhi, 2015.

Malvino Albert Paul. *Electronic principles*. 7th edition, Tata McGraw Hill, New Delhi, 2017.

BOOKS FOR REFERENCE

Allen Mottershead. *Electronic Devices and Circuits*. Prentice, New Delhi, 1982.

Ambrose A. and Vincent Devaraj T., *Elements of Solid State Electronics*. K.K. Dist: Meera, 1990.

Floyd Thomas L., *Digital Fundamentals*. Universal, New Delhi, 1997.

Milmann and Halkias, *Integrated Electronics*. Tata McGraw Hill, New Delhi, 1992.

JOURNAL

IOSR – Journal of Electrical and Electronics Engineering. (IOSR – JEEE)

WEBRESOURCE

www.Electronics.com/

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/EL63												
VI	Course Title: ELECTRONICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	3	1	1	1	3	2	2	2	2
CO 2	3	3	2	1	3	1	1	1	3	2	2	2	2
CO 3	3	2	2	1	3	1	1	1	3	2	2	2	2
CO 4	3	3	3	1	3	1	1	1	3	3	3	3	2
CO 5	3	3	3	1	3	1	1	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

B.Sc. DEGREE: BRANCH III - PHYSICS

SYLLABUS

(Effective from the academic year 2023-2024)

ATOMIC AND NUCLEAR PHYSICS

CODE:23PH/MC/AN64

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To impart fundamental knowledge on atomic and nuclear physics.
- To enable the students to understand the microscopic nature of the physical world of atoms and nuclei.
- To acquaint students with atomic structure progresses, its constituent particles, different types of nuclei, binding energy and nuclear processes.
- To provide a sound knowledge on characteristic effect associated with atom and to explain the experimental observations which offer as an evidence for the various phenomena.
- To familiarize the students with elementary particle classification, their interactions, conservation laws, symmetries and the fundamental interactions.

COURSE LEARNING OUTCOMES:

COs	DESCRIPTION	CL
CO1	recall and relate the theory and properties of the nucleus and atomic structure.	K1
CO2	understand the various significant processes and its responses in nucleus and atom.	K2
CO3	illustrate the spectrographs, photoelectric effect, vector atom model, Zeeman effect, properties of nucleus, energy reactions and quark model.	K3
CO4	distinguish the theoretical aspect of the nuclear fusion and fission process, various effects and processes involved in atom, interactions of the subatomic particles	K4
CO5	evaluate the experimental support associated with the theory of atom and Nucleus.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Positive rays and photoelectric effect 1.1 Positive rays- Aston's mass spectrograph - Dempster's mass spectrograph. Photoelectric effect: Introduction- Photoelectric laws - Laws of photoelectric effect - Einstein's photoelectric equation - Experimental verification of Einstein's photoelectric equation - Millikan's experiment -Photoelectric cells. 1.2 Production of X-rays-Bragg's law-Bragg's spectrometer-X-ray spectra- Continuous and characteristic X-ray spectrum - Moseley's law - Compton effect - Experimental verification	K1- K5	13	1-5
2	Atom model 2.1 Introduction to atom model – Vector atom model – Electron spin – Spatial quantisation – Quantum numbers associated with vector atom model – L-S and J-J coupling – Pauli's exclusion principle – Electron Configuration -Magnetic dipole moment due to orbital motion and spin motion of the electron – Bohr magnetron – Stern-Gerlach experiment – Selection rules – Intensity rule. 2.2 Zeeman effect (qualitative study) - Experimental arrangement of the normal Zeeman effect - Expression for the Zeeman shift - Paschen back effect - Stark effect.	K1- K5	13	1-5
3	Nucleus and Radioactivity 3.1 Properties of Nucleus- Binding energy per nucleon - Packing fraction – Nuclear stability – Nuclear force - Meson theory of nuclear force. 3.2 Natural radioactivity- Properties of alpha beta and gamma rays- Geiger-Nuttall law – Alpha particle spectra –Theory of alpha decay – Tunnel effect – Beta ray spectra – Neutrino theory of beta decay – K electron capture - Gamma decay – Principles of internal conversion - Interaction of Gamma ray with matter – Nuclear isomerism – Internal conversion - Fundamental laws of radioactivity - Relation between half-life and mean life – Law of disintegration - Radioactive dating.	K1- K5	13	1-5
4	Nuclear Energy 4.1 Nuclear reactions – Q value equation, threshold value – endoergic reaction, artificial radioactivity, radioisotopes, applications. 4.2 Nuclear fission – Chain reaction – Controlled and uncontrolled, multiplication factor – Four factor formula, power reactors, reactors in India, nuclear fusion, thermonuclear reaction, C- N cycle, proton – Proton cycle, Plasma – Nuclear magnetic bottle.	K1- K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Elementary Particles 5.1 Elementary particles: Introduction- Particles and antiparticles - Antimatter - Fundamental interactions – Conservation laws -Quarks and quark model (elementary ideas only). 5.2 Cosmic rays: Introduction – Discovery- Origin of cosmic rays- primary and secondary cosmic ray – Cosmic ray showers – Van Allen Belt.	K1- K5	13	1-5

BOOKS FOR STUDY

Ilangovan. K. *Nuclear Physics*. MJP Publishers, Chennai, 2012.

Murugesan R. *Modern Physics*. 18th Edition, S Chand and Company Ltd., New Delhi 2016.

Gupta A. B. and Dipak Ghosh. *Atomic and Nuclear physics*, Books and Allied (P) Ltd, Calcutta, 1999.

BOOKS FOR REFERENCE

Beiser, Arthur. *Concepts of Modern Physics*. New Delhi: Tata McGraw Hill, 2004.

Littlefield, T A and Thorley N. *Atomic and Nuclear Physics – an Introduction*. London: Van Nostrand, 1979.

Rajam J. B. *Atomic Physics*, S Chand and Company Ltd, New Delhi, 2000.

Sanjiv Puri. *Modern Physics – Concepts and Applications*, Narosa , New Delhi, 2009.

JOURNALS

Journal of Nuclear Physics

Physics Letters B: Nuclear, Elementary and High Energy Physics

Nuclear Engineering and Design

WEB RESOURCES

www. Journal of nuclear Physics.com

Scienceenergy.gov/np

www.saha.ac.in

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/AN64												
VI	Course Title: Atomic and Nuclear Physics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	1	1	3	3	2	2	1
CO 2	3	3	2	2	2	1	1	1	3	3	1	2	1
CO 3	3	3	1	2	2	1	1	1	3	3	2	2	1
CO 4	3	3	3	2	2	2	1	1	3	3	2	3	1
CO 5	3	3	2	2	2	1	1	1	3	3	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

QUANTUM MECHANICS AND RELATIVITY

CODE: 23PH/MC/QR64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart the knowledge of the fundamental principles of Quantum Mechanics, including wave-particle duality, quantization of energy and relativity, including the Lorentz transformations and relativistic energy-momentum relations.
- To enable the students to understand the basic quantum mechanical and relativity principles to solve problems related to systems like the particle in a box, harmonic oscillator, relativistic motion, time dilation, and length contraction.
- To guide the students in applying the concepts to evaluate quantum mechanics and relativity on our understanding of the behavior of particles and the probabilistic nature of systems.
- To equip the students to assess the impact of the wave function statistically and distinguish between the classical and quantum physics.
- To facilitate the students in solving complex quantum systems and relativistic scenarios, and analyze their implications.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on basic fundamental principles of quantum mechanics and relativity including wave-particle duality, quantization of energy, Lorentz transformations and relativistic energy-momentum relations.	K1
CO2	describe the concepts of wave functions, probability amplitudes, and their relevance to particle behavior in quantum mechanics and relativity implications of time dilation, length contraction, and the constancy of the speed of light.	K2
CO3	apply mathematical techniques to solve complex problems related to quantum mechanical systems, including solving the Schrödinger equations, operators and real-world relativistic phenomena's.	K3
CO4	relate the behavior of quantum mechanical systems under various potential fields and evaluate the significance of quantum phenomena in particle behavior.	K4
CO5	assess Schrödinger equation for simple problems and apprehend the use of operators	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Wave like Properties of Particles 1.1 Wave-Particle duality - De Broglie hypothesis for matter waves - De Broglie wavelength - Davisson and Germer experiment. 1.2 Uncertainty principle- Einstein's interpretation of duality for radiation- Wave functions- Superposition principles. 1.3 Properties of matter waves- Relation between wave, group and particle velocities.	K1 – K4	12	1-5
2	Schrödinger's Equations and Applications 2.1 Introduction to time dependent Schrodinger equation -Time independent Schrödinger's equation 2.2 Applications to one dimensional problem: Particle in a one-dimensional box - The step potential rectangular Potential Barrier- Examples of barrier Penetration by particles - Application to three dimensional problems: the Free Particle - Particle in three-dimensional box- Degeneracy.	K1 – K5	12	1-5
3	Quantum Mechanical Operators 3.1 Definition of an Operator- Operator algebra- Eigen values and Eigen functions. 3.2 Commutation relation between momentum and free Particle Hamiltonian operators. 3.3 Linear operators - Hermitian operators- properties- Parity operators – Properties - Commutation relation between parity and symmetric Hamiltonian operators.	K1 – K5	14	1-5
4	Relativity 4.1 The experimental background of the theory of relativity – Galilean transformations - Newtonian relativity - Inertial and non-inertial frame of reference. 4.2 Michelson-Morley experiment- Explanation of negative results- Postulates of special theory of relativity.	K1 – K5	13	1-5
5	Relativistic Mechanics 5.1 Relativistic Kinematics - Lorentz transformation equation – Consequence of Lorentz transformation equation (i) Length contraction (ii) Time dilation Experimental verification of length Contraction and time dilation concepts - Meson paradox- Twin paradox 5.2 Relativistic mechanics - Relativistic energy and Momentum - Mass-Energy equivalence- Evidence in support of Mass- Energy relation between momentum and energy.	K1 – K5	14	1-5

BOOKS FOR STUDY

Kamal Singh and S.P. Singh. *Elements of quantum mechanics*. S Chand, New Delhi, 2005. Gupta S.L., V. Kumar, H V Sharma and R C Sharma. *Quantum Mechanics*. Jai PrakashNath, Meerut, 2004.
Prakash Sathya. *Relativistic Mechanics*, Pragathi, Meerut, 2017.

BOOKS FOR REFERENCE

Beiser Arthur. *Concepts of Modern Physics*, Tata McGraw Hill, New Delhi, 2004.
Eisberg Robert and Robert Resnick, *Quantum Physics*, John Wiley, New York, 2002.
Mathews P.M, *A Text Book of Quantum Mechanic*, Tata McGraw Hill, New Delhi, 1976.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving
All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/QR64												
VI	Course Title: QUANTUM MECHANICS AND RELATIVITY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	3	2	3	1	2	2	2
CO 2	3	1	2	2	2	1	2	2	3	2	2	2	1
CO 3	2	3	2	1	2	2	2	2	2	1	2	2	2
CO 4	2	1	2	2	2	3	2	2	2	1	2	2	2
CO 5	2	3	2	1	2	2	2	2	3	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

EXPERIMENTAL PHYSICS VII

CODE:23PH/MC/P762

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To enable the students to understand the theoretical and practical knowledge required to perform general and electronic experiments.
- To enhance students learning through hands-on experience.
- To guide the students to observe and measure various physical quantities through scientific approach.
- To equip the students to interpret and report the measurement to draw valid conclusions.
- To facilitate the students to analyze the results of the experiment with an aim to construct or design an equipment or a device for application.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the theoretical concepts with the experiments.	K1, K2
CO2	apply the theoretical knowledge in both general and electronic experiments to acquire the necessary data.	K3
CO3	analyse and interpret the quantitative results utilizing mathematical and graphical verification.	K4
CO4	determine the various physical properties using scientific instruments.	K5
CO5	develop analytic ability from the technical knowledge gained through hands on training.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

EXPERIMENTS	CL	Hrs	CO
1. Determination of refractive index-Narrow angled prism - Spectrometer 2. Determination of wavelength of prominent lines of mercury spectrum-Oblique incidence - Spectrometer 3. Determination of intensity of the field at a point-Field along the axis – Searle’s Vibration Magnetometer 4. Calibration of High Range Voltmeter - Potentiometer 5. Hysteresis – Magnetometer method 6. Comparison of Mutual Inductance - Ballistic Galvanometer 7. Coefficient of Mutual Inductance - Ballistic Galvanometer 8. Temperature Coefficient - Carey Foster’s Bridge 9. Determination of E.C.E of Copper using Copper Voltmeter and Tangent Galvanometer	K1-K6	39	1-5

BOOKS FOR STUDY

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II*. S. Viswanathan, Chennai, 2009
 Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, New Delhi, 2013.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

End Semester Examination: Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/P762												
VI	Course Title: EXPERIMENTAL PHYSICS VII												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	1	1	3	3	2	2	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 3	3	3	3	1	3	3	1	1	3	3	3	3	2
CO 4	3	3	3	1	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	1	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

EXPERIMENTAL PHYSICS VIII

CODE: 23PH/MC/P862

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various electronic equipment.
- To Develop proficient skills in assembling, testing, and troubleshooting electronic circuits and systems.
- To Teach effective techniques for identifying and rectifying faults or malfunctions in electronic circuits.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To Foster the ability to analyze complex electronic systems, identify issues, and devise effective solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the theoretical electronic concepts in designing the circuits.	K1, K2
CO2	apply the theoretical knowledge in troubleshooting and correcting simple electronic circuit errors.	K3
CO3	analyze the component values needed to achieve specific circuit characteristics	K4
CO4	evaluate the effects of various component values on circuit performance.	K5
CO5	develop analytic ability from the technical knowledge gained through hands on training	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

EXPERIMENTS	CL	Hrs	CO
1. R – 2R ladder - D/A Converter (IC 741) 2. Sine wave generation - Phase shift oscillator (IC 741) 3. Karnaugh map simplification using logic gates 4. Astable multivibrator using IC 555 Timer 5. Data Selector – Study of multiplexer. 6. BCD Adder (IC 7483) 7. Decade Counter (IC 7490) 8. Ripple counter (IC 7473) 9. Microprocessor - HEX to BCD and BCD to HEX conversion.	K1-K6	39	1-5

BOOKS FOR STUDY

Ouseph, C. C., V. Srinivasan and R. Balakrishnan, *A Text Book of Practical Physics. Vol. I & II*. S. Viswanathan, Chennai, 2009

Chattopadhyay, D. and Rakshit, P. C, *An Advanced Course in Practical Physics*, New Central Book Agency; 10th Revised Edition, New Delhi, 2013.

Sathian G. Kumar, *Computer Science - Manual for Digital Electronic sand Microprocessor Lab*, 2006.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

End Semester Examination: Total Marks: 50**Duration: 3 hours**

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy, Error estimation & Interpretation	K5, K6	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester 6	Subject Code: EXPERIMENTAL PHYSICS VIII												
VI	Course Title: 23PH/MC/P862												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	2	2	2	1	2	2	2
CO 2	2	2	2	2	3	1	2	2	2	2	2	2	1
CO 3	3	3	2	2	2	2	2	2	2	1	2	2	2
CO 4	2	1	2	2	2	3	2	2	2	2	2	2	2
CO 5	2	3	2	1	2	2	2	2	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

NANOSCIENCE AND NANOTECHNOLOGY

CODE: 23PH/ME/NN45

CREDITS: 5

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart knowledge of the basic concepts of nanoscience, including the scale of nanometers and the unique properties of nanomaterials.
- To enable the students to understand the fundamental principles that govern the behavior of materials at the nanoscale.
- To guide the students to adopt nanoscale fabrication techniques to tailor the nanomaterial as per the applications.
- To equip the students to analyze the properties and behavior of nanomaterials for integration of nanoscale innovations in technology.
- To facilitate the students in adapting nanoscale concepts to address emerging challenges in fields such as medicine, energy, and electronics.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on basic principles and concepts of nanoscience, including the unique properties of materials at the nanoscale.	K1
CO2	describe the fundamental principles that govern the behavior of materials at the nanoscale.	K2
CO3	employ suitable nanoscale fabrication techniques to tailor nanomaterials according to specific application requirements	K3
CO4	examine the properties and behavior of nanomaterials for Real-world applications of nanoscience.	K4
CO5	analyze potential societal impacts and viable applications of nanotechnology.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Nanoscience and Nanotechnology 1.1 Introduction- Nano and nature - Scientific revolution, definition of nanotechnology, emergence of nanotechnology. 1.2 Bulk to nano transition- Nanosize effects - Size dependent phenomena - Bohr exciton radius, Quantum confinement.	K1 – K5	13	1-5
2	Properties of Nanomaterials 2.1 Definition of a nano System - Types of nanocrystals - One-Dimensional (1D) – Two -Dimensional (2D) - Three-Dimensional (3D) Nanostructured materials - Quantum Dots (0 D) - CNT. 2.2 Introduction – Mechanical behavior – Elastic properties – Hardness and strength – Ductility and toughness – Superplastic behavior – Optical properties – Surface plasmon resonance – Electrical properties – Dielectric materials and properties – Magnetic properties.	K1 – K5	13	1-5
3	Synthesis of Nanomaterials 3.1 Physical Method: Ball Milling, Sputter deposition, Ion beam techniques. 3.2 Chemical Method: Wet chemical synthesis – Sol-Gel processing, Co-Precipitation, Hydrothermal, Chemical bath deposition. 3.3 Vapour Method: Thermal evaporation - Chemical Vapor Deposition (CVD).	K1 – K5	13	1-5
4	Characterization Techniques 4.1 Structural: X-Ray Diffraction. 4.2 Optical: UV-Vis absorption spectroscopy - Photo Luminescence. 4.3 Morphological: Scanning Electron Microscopy (SEM)- Transmission Electron Microscopy (TEM).	K1 – K5	13	1-5
5	Applications of Nanomaterials 5.1 Applications in Physics: Nanoelectronics, Quantum Dot and Dye sensitized solar cells, photovoltaics, photocatalytic applications, CNT based transistor and Field emission display. 5.2 Applications in other fields of Science: Nanosensors, Nanomedicine, Nanocoatings, Nanopaints	K1 – K5	13	1-5

BOOKS FOR STUDY

M.A. Shah and Tokeer Ahmad, *Principles of Nanoscience and Nanotechnology*, Narosa Publishing House Pvt Ltd, 2010.
 K.K.Chattopadhyay and A.N. Banerjee, *Introduction to Nanoscience and Nanotechnology*, PHI Learning Pvt. Ltd., 2012.

BOOKS FOR REFERENCE

Richard Booker and Earl Boysen, *Nanotechnology*, Wiley Publishing Inc. USA, 2005.

J.H. Fendler, *Nano particles and nano structured films; Preparation, Characterization and Applications*, John Wiley and Sons, 2007.

B.S. Murty, *Textbook of Nanoscience and Nanotechnology*, Universities Press, 2012.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
Section A Answer in a sentence or two	K1	5x2 = 10 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	2x10 = 20 marks	Two out of three questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	1x20= 20 marks	One out of two questions to be answered, each question will have one K4 & K5 level question of equal weightage

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
Section A Answer in a sentence or two	K1	10x2 = 20 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	4x10 = 40 marks	Four out of five questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	2x20 = 40 marks	Two out of four questions to be answered, each question will have one K4 & K5 level question of equal weightage

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/ME/NN45												
	Course Title: NANOSCIENCE AND NANOTECHNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	3	1	1	2	2	1	2	3	2
CO 2	3	2	2	2	2	1	2	2	2	2	2	2	1
CO 3	3	3	2	1	2	1	2	2	2	1	2	2	2
CO 4	2	1	2	2	2	3	2	2	2	1	1	3	2
CO 5	2	3	2	1	2	2	2	2	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

LASER PHYSICS

CODE: 23PH/ME/LP45

CREDITS: 5

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize the students with primary concepts essential to understanding of lasers.
- To support the students to understand the principle of laser action including quantum nature of light, how light interacts with matter, population inversion, light amplification by stimulated emission of radiation, and essential components required to construct a lasing device, and appreciate laser applications in daily life.
- To direct the students in applying the theoretical concepts to understand the lasing action in 3 level and 4 level lasers, and know the role of lasers in the field of Industry, Defence, Medicine, and Communication.
- To prepare the students to differentiate between different types of lasers based on their active medium and outline their operation based on observed energy levels.
- To encourage the students in evaluating the possible practical difficulties that affect the working of a laser.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic terminologies and concepts essential to explain the operation of any laser.	K1
CO2	summarize key concepts like light matter interaction, population inversion and stimulated emission, role of photon multipliers, laser characteristics and the functionality of different types of lasers, application of lasers.	K2
CO3	use the theoretical ideas learnt in optics, quantum mechanics and atomic physics to illustrate the functioning of a lasing device.	K3
CO4	compare and contrast between the different lasing mediums, their properties and how the criteria for stimulated emission is met in each of the types and calculate and interpret the rate equation for any two level, three level or four level lasing system, lasers and conventional light sources	K4
CO5	evaluate the various factors influencing the performance of a laser.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Basic Theory 1.1 Introduction to Laser – Planck’s quantum theory - Energy levels – Population - Thermal equilibrium – Einstein’s prediction – Absorption, spontaneous and stimulated emission - Einstein’s relations – Condition for large stimulated emissions – Population inversion – Metastable state. 1.2 Basic components of a Laser - Pumping methods - Optical resonator and its action - Cavity configuration - Plane parallel cavity - Confocal cavity - Hemispherical and long radius cavity.	K1 – K5	15	1-5
2	Laser Characteristics and Rate Equations 2.1 Laser Beam Characteristics – Introduction – Directionality – Divergence – Coherence - Temporal and spatial coherence – Monochromaticity. 2.2 Laser rate equation - Two level system - Three level system - Four level system (Qualitative Treatment Only) - Line broadening mechanism.	K1 – K5	12	1-5
3	Solid-state, Gas and Chemical Lasers 3.1 Classification of Lasers (based on Active Medium) - Solid state Laser - Nd: YAG Laser – General description – Structure - Energy level diagram – Working. 3.2 Gas Laser: Helium Neon Laser - General description - Structure - Energy level diagram – Working – Carbon Dioxide Laser - General description - Structure - Energy level diagram – Working - Chemical Laser: HCl Laser and HF Laser working.	K1 – K5	11	1-5
4	Semiconductor and Liquid Lasers 4.1 Semiconductor Laser – Intrinsic semiconductor Laser - Doped semiconductor Laser - PN Junction – Population inversion - Homojunction diode Laser: structure and working – Advantages of laser diodes over LED’s. 4.2 Liquid Laser – Dye Laser - Description - Energy level diagram – Working.	K1 – K5	12	1-5
5	Applications of Laser 5.1 Lasers in Material processing: Drilling - Cutting – Different methods of cutting - Welding – Laser ablation - Lasers in Defence: LIDAR and its applications – Laser rangars – Velocity measurement – Holography (Recording and reconstruction of Hologram). 5.2 Lasers in Medicine: Cancer Therapy – Laser eye surgery – Cataract and photocoagulation - Laser Angioplasty - Optical communication using Laser - Basic Principle of optical computers.	K1 – K5	15	1-5

BOOKS FOR STUDY

Avadhanulu. M.N. and Hemne. P.S, *Introduction to Lasers*, S Chand, New Delhi, 2015.
S. Nagabhushana and N. Sathyanarayana *Lasers and Optical Instrumentation*. Wiley 2020.
Laud B.B., *Lasers and Non – Linear Optics*, Wiley, New Delhi, 2011.

BOOKS FOR REFERENCE

Thyagarajan K. and Ajoy Ghatak, *Lasers Fundamentals and Applications*, Laxmi publications, Chennai, 2019.
Mohan. S, Arjunan. V, Selvarani. M and Kanchanamala. M, *Laser Physics*, MJp Publishers, 2019.
Wilson. J and Hawkes J.F.B., *Optoelectronics–An Introduction*, Prentice Hall, New Delhi, 1989.

JOURNALS

Laser Physics – Springer
link.springer.com/journal/11490
Journal of Laser Applications
Scitation.aip.org/content/lia/journal/jla

WEB RESOURCE

Institute of Physics - For physics • For physicists • For all ...
www.iop.org/
Laser Physics - Complete University Guide
www.thecompleteuniversityguide.co.uk › Courses › Options

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	M arks	Pattern
Section A Answer in a sentence or two	K1	5x2 = 10 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	2x10 = 20 marks	Two out of three questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	1x20= 20 marks	One out of two questions to be answered, each question will have one K4 & K5 level question of equal weightage

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving
All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	M arks	Pattern
Section A Answer in a sentence or two	K1	10x2 = 20 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	4x10 = 40 marks	Four out of five questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	2x20 = 40 marks	Two out of four questions to be answered, each question will have one K4 & K5 level question of equal weightage

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/ME/LP45												
	Course Title: LASER PHYSICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	3	2	1	1	3	2	2	3	2
CO 2	3	3	3	2	3	2	1	1	3	3	2	3	3
CO 3	3	3	3	2	3	2	1	1	3	3	2	3	3
CO 4	3	3	3	2	3	2	1	1	3	3	2	3	3
CO 5	3	3	3	2	3	2	1	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

COMMUNICATION SYSTEMS

CODE:23PH/ME/CS45

CREDITS:5

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable student to understand the basics of communication systems.
- To expose the student to the concepts and significance of propagation of waves.
- To enhance the students knowledge on the concept of radar system.
- To facilitate the students with the principles of optical communication systems.
- To acquire the knowledge of wireless and mobile communication systems.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic principles of various types of communication systems.	K1
CO2	understand the components of modern communication systems, signals generation, modulation and processing.	K2
CO3	apply the theoretical concepts to explain various modulation methods in communication system using radio waves, micro waves and Fibre optics.	K3
CO4	analyse the distinguishing characteristics of different communication systems.	K4
CO5	develop expertise in modern digital communication systems and the future of digital wireless communication systems and networks.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Communication Principles 1.1 Types of modulation – Amplitude modulation – Modulation factor – Analysis of amplitude modulated wave – Energy distribution in AM Wave. 1.2 Frequency modulation - Analysis of frequency modulated Wave – Phase modulation – Comparison of frequency and amplitude modulation. 1.3 Pulse amplitude modulation – Pulse width – Pulse position modulation - Pulse coded modulation (Principles only).	K1-K5	13	1-5
2	Radiation Propagation 2.1 Fundamentals of electromagnetic waves – Propagation of waves – Ground waves – Sky waves – Waveguides and attenuation. 2.2 Space wave propagation – Effect of earth's curvature – Atmospheric effects - Ionosphere and its stratification.	K1-K5	13	1-5
3	RADAR Systems and Microwave Generations 3.1 Radar systems – Basic principles – Basic pulsed radar system – Block diagram and description – Radar range equation – Uses of radar – Doppler radar systems. 3.2 Microwave communication – Introduction – Generation of microwaves – Magnetron oscillator – Working – Klystron oscillator – Velocity modulation– Multicavity Klystron – Reflex Klystron.	K1-K5	13	1-5
4	Fibre Optic Communication 4.1 Introduction – Importance of optical Fibres – Propagation of light waves in an optical Fibre – Basic structure of an optical Fibre – Propagation of light wave through an optic Fibre – Acceptance angle and acceptance cone of a Fibre – Modes of propagation – Meridinal and skew rays. 4.2 Classification of optical Fibres – Fibre losses – Attenuation in optic Fibres- Material or impurity loss – Absorption loss – Radiation induced losses.	K1-K5	13	1-5
5	Basics of Wireless and Mobile Communications 5.1 Introduction - Radio transmission techniques- Cellular concept - Operational channels - Making a call. 5.2 Modern wireless communication systems : First generation networks - Second generation networks - TDMA/FDD - CDMA/FDD Standard - Mobile networks – 3G - Third generation networks - 4G networks - 5G networks - Bluetooth – Hotspot – Wi-Fi - Wireless local area networks (W-Lan).	K1-K5	13	1-5

BOOKS FOR STUDY

Ambrose, A. T., Vincent Devraj. *Elements of Solid State Electronics*, Meera, K. K. DT, 1990.

Mehta. V.K., *Principles of Electronics*. 12th edition S Chand, New Delhi, 2020. `

Anokh Singh and Chopra A.K., *Principles of communication Engineering*, 5th edition, S. Chand, New Delhi, 2013.

Sarkar Subir Kumar. *Optical Fibres and Fibre Optic Communication Systems*. New Delhi: S Chand, 2007.

Jochen Schiller. *Mobile Communications*. 2nd edition. Pearson Education, U.K, 2008.

Mischa Schwartz, *Mobile Wireless Communications*, Cambridge University Press, 2004.

BOOKS FOR REFERENCE

Haykin, Simon. *Digital Communications*. John Wiley, New Delhi, 1998.

Kennedy, George. *Electronic Communication Systems*. McGraw, New Delhi, 1984.

Lathi B.P. *Communication System*. Wiley, New Delhi, 1981.

Kaveh Pahlavan, Prasanth Krishnamoorthy. *Principles of Wireless Networks*. First Edition. Pearson Education, U.K, 2003.

JOURNAL

AEU - International Journal of Electronics and Communications.

IOSR Journal of Electronics and Communication Engineering (IOSR-JECE).

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 1 hour 30 minutes**

Section	Cognitive Level	M arks	Pattern
Section A Answer in a sentence or two	K1	5x2 = 10 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	2x10 = 20 marks	Two out of three questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	1x20= 20 marks	One out of two questions to be answered, each question will have one K4 & K5 level question of equal weightage

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	M arks	Pattern
Section A Answer in a sentence or two	K1	10x2 = 20 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	4x10 = 40 marks	Four out of five questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	2x20 = 40 marks	Two out of four questions to be answered, each question will have one K4 & K5 level question of equal weightage

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/ME/CS45												
	Course Title: COMMUNICATION SYSTEMS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	1	1	1	3	2	3	2	2
CO 2	3	3	2	1	3	1	1	1	3	3	2	1	2
CO 3	3	3	3	1	3	1	1	1	3	3	2	3	2
CO 4	3	3	3	1	3	1	1	1	3	2	2	1	2
CO 5	3	3	3	1	3	1	1	1	3	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from the academic year 2023 – 2024)

ASTRONOMY AND ASTROPHYSICS

CODE: 23PH/ME/AA45

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart knowledge on the fundamentals of the universe, its various components (galaxies, stars, planets), and their organization.
- To enable the students to understand the basic astronomical phenomena, such as celestial motion and gravitational interactions.
- To guide the students to Explore the life cycles of stars, from formation to supernova or collapse, and to understand the dynamics and interactions within galaxies.
- To equip the students to assess the impact of the various telescopes, detectors, and observational techniques used in modern astrophysics research.
- To facilitate the students in exploring extreme environments, such as black holes, neutron stars, supernovae, and active galactic nuclei, and their impact on the surrounding space.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall key astronomical terms, such as galaxies, nebulae, and celestial coordinates, etc.	K1
CO2	describe the celestial objects, galaxies, classification of stars, mechanism of birth and death of a star, large-scale structure of the universe and the principles of astronomical instruments.	K2
CO3	classify and compare the stars on the Hertzsprung-Russell diagram	K3
CO4	evaluate the implications of observational evidence for the formation and evolution of galaxies and other cosmic structures.	K4
CO5	assess the validity and reliability of scientific claims in astrophysics based on evidence, considering factors like observational errors and model limitations.	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Astronomy 1.1 Introduction – Asian astronomy and modern astronomy - Big bang theory – Contents of the universe – Distance measuring units in astronomy. 1.2 The solar system: The sun – Planets and their satellites – Asteroids - Meteoroids, Meteors and Meteorites – Comets.	K1 – K5	13	1-5
2	Stars 2.1 The internal structure of a star - Stellar evolution – Supernova, Pulsars, Black holes and Neutron stars. 2.2 Morgan – Keenan spectral classification of stars - the Hertzsprung Russell diagram – Mass luminosity relationship of a star in the main sequence – Size limits of the star – Nuclear reactions inside a main sequence star – Proton-Proton chain reaction – Carbon Nitrogen Oxygen cycle.	K1 – K5	13	1-5
3	Our galaxy 3.1 Galaxies – General classification and properties of Galaxies – Elliptical galaxy – Spiral galaxy – Irregular galaxies – Milky way galaxy. 3.2 Rotation of the Galaxy – Redshift and blue shift – Mechanism for redshift and blueshift – Hubble’s law in relation to the expanding universe.	K1 – K5	13	1-5
4	Astronomical Instruments 4.1 Basic definitions for telescopes (magnification, light gathering power, limiting magnitude, diffraction limit) - Reflection – Reflecting telescope – Refraction – Refracting telescope – Angular resolution. 4.2 Siderial clock – Chronometer – Gnomon – spectroscope – Radio telescope – Filar micrometer.	K1 – K5	13	1-5
5	Cosmology 5.1 The expanding Universe - Thermal history of the Universe - Neutrinos thermal dark matter - Big bang nucleosynthesis - Cosmic microwave background - Recombination - Gravitational collapse and structure formation - Dark energy	K1 – K5	13	1-5

BOOKS FOR STUDY

Arnab Rai Choudhuri, *Astrophysics for physicists*, Cambridge University Press, 2010.

H. Karttunen, *Fundamental Astronomy*, Springer Berlin, Heidelberg.

B. W. Carroll and D. A. Ostlie, *Modern Astrophysics*, Addison-Wesley Publishing Co.

M. Zeilik and S. A. Gregory, *Introductory Astronomy and Astrophysics*, Saunders College Publishing.

BOOKS FOR REFERENCE

Robert Chapman, *Discovering Astronomy*, W.H. Freeman and company.
Kaufmann, *Universe*, W.H. Freeman and company.
T. Padmanabhan, *Astronomy in India: A Historical Perspective*, Springer.
B. Ryden and B. M. Peterson, *Foundation of Astrophysics*, Cambridge University Press.
M. Kutner, *Astronomy: A Physical Perspective*, Cambridge University Press.

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 1 hour 30 minutes**

Section	Cognitive Level	M arks	Pattern
Section A Answer in a sentence or two	K1	5x2 = 10 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	2x10 = 20 marks	Two out of three questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	1x20= 20 marks	One out of two questions to be answered, each question will have one K4 & K5 level question of equal weightage

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving
All K1 – K5 levels to be assessed

End Semester Examination: **Total Marks: 100** **Duration: 3 hours**

Section	Cognitive Level	M arks	Pattern
Section A Answer in a sentence or two	K1	10x2 = 20 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	4x10 = 40 marks	Four out of five questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	2x20 = 40 marks	Two out of four questions to be answered, each question will have one K4 & K5 level question of equal weightage

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/ME/AA45												
	Course Title: ASTRONOMY AND ASTROPHYSICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	1	1	1	1	3	3	2	2	1
CO 2	3	3	2	1	1	1	1	1	3	3	2	2	1
CO 3	3	3	2	1	1	1	1	1	3	3	3	2	1
CO 4	3	3	2	1	1	1	1	1	3	3	3	3	1
CO 5	3	3	2	1	1	1	1	1	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

MEDICAL INSTRUMENTATION

CODE:23PH/ME/MI45

CREDITS:5

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To impart basic knowledge on the physics fundamentals related with medicine.
- To expose the students to medical equipment and the physics principles associated with them.
- To make the students to Apply knowledge of the basic structure and function of the human body relevant to clinical diagnostic imaging and radiation.
- To guide the students in understanding the roles and responsibilities of medical physicists in patient care and public safety.
- To provide students with required knowledge of the operation and principles used in the systems and procedures associated with the clinical track.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the fundamental physical laws to analyse behaviour and properties of a variety of physical systems.	K1
CO2	Understand the theoretical concepts and its integration across all areas of medical physics.	K2
CO3	Apply theoretical and technical skills to perform and critically evaluate procedures related to medical instruments.	K3
CO4	Analyze the essential facts, concepts, principles and theories of medical physics.	K4
CO5	Interpret the data obtained from testing, diagnostic instruments such as MRI, ultrasonic images.	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Biometrics And Audiometry 1.1 Biometrics: Introduction to man - Instrument system and its components – Problems encountered in measuring living systems – Transducers – Force, motion, pressure transducers. 1.2 Audiometry: Mechanism of hearing – Air and bone conduction – Threshold of hearing – Audiometer – Masking in audiometry – Pure tone and speech audiometer – Evoked response audiometry – Hearing aids.	K1- K5	13	1-5
2	Bioelectric Potentials, Electrodes and Recorders 2.1 Biomedical signals – Sources of bioelectric potentials – resting, action and propagation of bioelectric potentials – Bio-potential electrodes – Skin surface, needle electrodes. 2.2 Recorders: Electro-conduction system of heart – Electro cardiogram (ECG) – Einthoven's triangle — Electro encephalogram (EEG) – Brain waves – EEG instrumentation – Recording of evoked potentials – Electro myogram (EMG) – Pulse oximeter.	K1- K5	13	1-5
3	Diagnostic Radiology Computed Tomography 3.1 Radiography – Primary radiological image – Contrast agents, filters – Beam restrictor, grid – Image quality 3.2 Linear tomography – Computed tomography – Helical and multi slice – Image quality – Radiation dose.	K1- K5	13	1-5
4	Radioisotopes and Nuclear Medicine: 4.1 Radioisotopes – Radiopharmaceuticals – Technetium generator – Gamma camera – Positron emission tomography – Disposal of radioactive waste.	K1- K5	13	1-5
5	Magnetic Resonance Imaging Ultrasound Imaging 5.1 Ultrasound Imaging: Ultrasound transducer – Ultrasound imaging – Doppler ultrasound – Ultrasound image quality and bio-effects. 5.2 Magnetic Resonance Imaging: Proton and external magnetic field – Precession – Radio frequency and resonance – MRI signal – Relaxation time – MRI instrumentation – Imaging sequences – Biosafety	K1- K5	13	1-5

BOOKS FOR STUDY

Leslie Cromwell, Fred Weibell, Erich Pfieffer *Biomedical Instrumentation and Measurements*, Prentice Hall of India, New Delhi, 2002.

R. S. Khandpur, *Handbook of Biomedical Instrumentation*, 2nd edition, Tata McGraw Hill, New Delhi, 2013.

Kuppusamy Thayalan, *Basic Radiological Physics* 2nd edition, Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, 2017.

BOOKS FOR REFERENCE

John Webster, *Bioinstrumentation*, John Wiley and Sons, Singapore, 2004.

John Enderle, Susan Blanchard and Joseph Bronzino, *Introduction to Biomedical Engineering*, 2nd edition, Elsevier, San Deigo, 2005.

William Hendee, Geoffrey Ibbott and Eric Hendee, *Radiation therapy Physics* 3rd edition, Wiley-Liss, New Jersey, 2005.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 1 hour 30 minutes

Section	Cognitive Level	M arks	Pattern
Section A Answer in a sentence or two	K1	5x2 = 10 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	2x10 = 20 marks	Two out of three questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	1x20= 20 marks	One out of two questions to be answered, each question will have one K4 & K5 level question of equal weightage

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	M arks	Pattern
Section A Answer in a sentence or two	K1	10x2 = 20 marks	All questions to be answered
Section B Answer in a paragraph	K2 & K3	4x10 = 40 marks	Four out of five questions to be answered, each question will have one K2 & K3 level question of equal weightage
Section C Answer in detail	K4 & K5	2x20 = 40 marks	Two out of four questions to be answered, each question will have one K4 & K5 level question of equal weightage

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/MC/MI45												
	Course Title: MEDICAL INSTRUMENTATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	1	1	3	3	2	2	2
CO 2	3	3	3	2	2	2	1	1	3	3	3	2	1
CO 3	3	3	3	2	2	2	1	1	3	3	2	2	1
CO 4	3	3	3	2	1	1	2	1	3	3	2	2	1
CO 5	3	2	2	2	1	2	2	1	3	3	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

PROJECT

CODE: 23PH/ME/PR45

CREDITS:5

GUIDELINES FOR PROJECT

Project should be done individually. Each student will choose a topic of her interest and the student will be assigned to a supervisor.

Each candidate should submit a research proposal to the Supervisor and the abstract of the project to be developed in guidance with the supervisor.

The project will require practical work with the submission of a project report. The duration of the project work is between 3 and 6 months.

The project report should be submitted in the prescribed format containing a minimum of 30 pages. Reference should not be counted with the main pages.

Each candidate must give three periodical reviews to the internal guide on the scheduled dates prescribed by the Department.

Each candidate will submit 3 hard copies of the project thesis on the scheduled date. The student will appear for Viva-voce before a panel comprising External Examiner, Supervisor and Head of the Department.

PATTERN OF ASSESSMENT

Continuous Assessment :

Total Marks: 50

Description	Marks	Cognitive Level
Research Statement and Methodology	10	K1- K2
Documentation – Texts and images	25	K3 – K4
Research Findings and Interpretation	15	K5-K6

End Semester Examination:

Total Marks: 50

Description	Marks	Cognitive Level
Research Statement and Methodology	10	K1- K2
Documentation – Texts and images	25	K3 – K4
Research Findings and Interpretation	15	K5-K6

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86

**General Elective Course offered by Department of Physics for
B.A. / B.Sc. (Other than Mathematics, Physics, Chemistry) /
B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

BASIC PRINCIPLES OF PHYSICS

CODE: 23PH/GE/BP22

CREDITS:2

L T P:1 0 1

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To provide knowledge of the elementary concepts in Mechanics, Optics and Electromagnetism.
- To facilitate the students in developing a conceptual understanding of the working of everyday simple machines, optical instruments, and simple circuits through lecture cum demonstration.
- To enable them in interpreting and appreciating the usage of physical principles in everyday life.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	State the terminologies and principles needed to understand the basic concepts of Mechanics, Optics and Electricity.	K1
CO2	Describe the laws governing the simple machines, behaviour of light in different mediums and the significance of electromagnetism in our everyday life.	K2
CO3	Apply basics laws of mechanics to understand the working of simple machines, light behaviour to understand the working of optical instruments, and Ohm's law to explain the working of a simple electrical circuit.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Mechanics 1.1 Newton's laws of motion - Conservation of linear momentum. Impulse – Collision - Centripetal and centrifugal forces – First and second order of levers – Simple machines. 1.2. Experiments i. Conservation of Linear Momentum ii. Centripetal and Centrifugal Forces iii. Simple Machines	K1 – K3	8	1-3

UNIT	CONTENT	CL	Hrs	CO
2	Optics 2.1 Light – Characteristics of light- Reflection – Refraction – Interference – Diffraction - Polarization- Electromagnetic spectrum- Microscope - Telescope- Spectrometer - Laser - Stimulated emission – Principle of laser action. 2.2 Experiments i Parts of Optical Instruments ii Study of Spectrum Using Prism and Transmission Grating iii Determination of Thickness of Thin Wire Using LASER	K1 – K3	9	1-3
3	Electricity 3.1 Ohm's Law - Resistance in series and parallel - Electromagnetic induction - Lenz's law - Magnetic materials - Different types of magnetic materials - DC and AC - Three Phase AC. 3.2 Experiments i. Verification of Ohm's Law ii Study of Magnetic Properties iii Generation of EMF Using Induction Coil	K1 – K3	9	1-3

BOOKS FOR STUDY

Naranyanamurthi. M and Nagaratham. N. *Dynamic*. The National, Chennai, 1994.

Subrahmanyam. N and Lal Brij. *Textbook of Optics*. Vikas, New Delhi, 2013.

Murugesan R. *Electricity and Magnetism*. S Chand, New Delhi, 2013.

Murugesan R. *Allied Physics*. S Chand, New Delhi, 2018.

BOOKS FOR REFERENCE

Halliday, David, and Robert Resnick. *Physics Vol I and II*. Wiley, Chennai, 2007.

PATTERN OF ASSESSMENT

No End-Semester Examination

Continuous Assessment Test:

Total Marks: 25

Section	Knowledge Level	Marks	Pattern
A	K1	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
B	K2, K3	15	Part – A 1 x 5 = 5 marks (1 out of 2 questions to be answered at K2 level) Part – B 2 x 5 = 10 marks (2 out of 3 questions to be answered at K3 level)

Other Components:

Total Marks: 25

Seminar/Presentation/Quiz/Assignments

All K1 – K3 levels to be assessed

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600086

**General Elective Course offered by Department of Physics for
B.A. / B.Sc. / B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

HOME ELECTRICAL INSTALLATIONS

CODE:23PH/GE/HE22

CREDITS:2

L T P:1 0 1

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To make students to understand the working principles of domestic electrical appliances.
- To equip the students to carry out simple electrical repair works.
- To provide insights on safety measures in the usage of electricity.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the basic concepts of current, electricity and voltage.	K1
CO2	Understand the working and usage of basic circuit components in circuits.	K2
CO3	Apply the knowledge gained from hands on training to undertake simple electrical repair works.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Basic Electric Circuits 1.1 Basic Facts: Electric circuits – Basic components used in an electric circuit – Complete circuit- Lighting circuits - Series and parallel circuits. 1.2 Switches – Types of switches – Plugs and its types – Safety practices and measurements.	K1-K3	9	1-3
2	Electrical Connections 2.1 Principles of single phase and three phase connections. Fuses - Fuse wire – Melting point – Causes and repairing a Fuse - The Earth wire – Lightning conductor. 2.2 Home Appliances: Inverter - Electric Fan - Electric Iron.	K1-K3	9	1-3

UNIT	CONTENT	CL	Hrs	CO
3	Demonstration and Hands-on Training 3.1 Experiments on closed, open, short, series and parallel circuits. 3.2. Wiring practice of switches and plugs. 3.3 Measurement of current and voltage using multimeter. 3.4. Replacing Fuses 3.5 A Model of house wiring 3.6. Tubelight connection	K1-K3	8	1-3

BOOKS FOR REFERENCE:

I M Anwani, *Electrical Appliances Theory and Repair*, 2nd edition New Heights Publishers, 1981.

Lindslaey Trevor., *Basic Electrical Installation Work*. Newnes, Great Britain, 2005.

PATTERN OF ASSESSMENT

No End-Semester Examination

Continuous Assessment Test:

Total Marks: 25

Section	Knowledge Level	Marks	Pattern
A	K1	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
B	K2, K3	15	Part – A 1 x 5 = 5 marks (1 out of 2 questions to be answered at K2 level) Part – B 2 x 5 = 10 marks (2 out of 3 questions to be answered at K3 level)

Other Components:

Total Marks: 25

Seminar/Presentation/Quiz/Assignments

All K1 – K3 levels to be assessed

STELLA MARIS COLLEGE (AUTONOMOUS), CHENAI-600 086

**General Elective Course offered by Department of Physics for
B.A. / B.Sc. / B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENERGY PHYSICS

CODE:23PH/GE/EP22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To impart fundamental knowledge on the concept of renewable and non-renewable energy.
- To equip the students to know the importance of conservation of energy and the need for alternate source of energy.
- To enable the students to be aware of the importance of sustainable energy.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall the principles of energy and work in Physics and how they are related to each other.	K1
CO2	understand the environmental impact of the fossil fuels and the need for cleaner sources of energy.	K2
CO3	describe the proposed renewable energy technologies and the energy conversion processes.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Energy : Sources of energy - Forms of energy - Potential, kinetic, mechanical, chemical and thermal units of energy, uses of energy, energy conversion. 1.2 Non-renewable energy – Coal, petroleum, gas, renewable energy- Solar, wind, biomass, geothermal and nuclear, advantages and disadvantages.	K1- K3	9	1-3
2	Non-Renewable Energy 2.1 Coal - Early uses as fuel - Electricity generation, Petroleum- Composition, Reservoirs – Uses 2.2 Natural Gas – Process, conversion to electrical energy.	K1- K3	8	1-3
3	Renewable Energy 3.1 Solar Energy- Solar energy conversion, Solar pond, Solar voltaic Cell conversion, wind Energy, wind mill types, Geothermal - Power plants, uses of geothermal water. 3.2 Biomass energy – Biofuel conversion process, gasification of bio mass, Nuclear: Nuclear fission and fusion, Power Reactors, Hydroelectric Power, Principle -Production of Power.	K1- K3	9	1-3

BOOKS FOR STUDY

Ashok V. Desai., *Non-conventional Energy*. New Age International (P) Ltd, New Delhi, Reprint, 2003.

G.D. Rai. *Non Conventional Sources*, Khanna Publishers, 2011.

BOOKS FOR REFERENCE

Ashwin Paramar. *Energy Future*, Dominant, New Delhi, 2001.

Tiwari. G. N. and Ghosal M. K. *Renewable Energy resource*, Narosa, New Delhi, 2007.

Vandana. S., *Alternative Energy*, A P H, New Delhi, 2002.

PATTERN OF ASSESSMENT**No End-Semester Examination****Continuous Assessment Test:****Total Marks: 25**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
B	K2, K3	15	Part – A 1 × 5 = 5 marks (1 out of 2 questions to be answered at K2 level) Part – B 2 x 5 = 10 marks (2 out of 3 questions to be answered at K3 level)

Other Components:**Total Marks: 25**

Seminar/Presentation/Quiz/Assignments

All K1 – K3 levels to be assessed

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86

**General Elective Course offered by Department of Physics for
B.A. / B.Sc./ B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

WIRELESS COMMUNICATION

CODE: 23PH/GE/WL22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To impart the knowledge of the basic fundamental concepts of wireless communication, including propagation characteristics, modulation techniques, cellular systems, etc.
- To enable the students to understand of the fundamental knowledge about how radio waves propagate through different environments, and how channel models are used to predict signal behavior.
- To guide the students in applying the concepts to the various wireless communication standards like Wi-Fi, Bluetooth, LTE, 5G, etc.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Acquire knowledge on basic principles of communication systems, including modulation, encoding and transmission.	K1
CO2	Describe the characteristics and behaviors of signals in different communication mediums.	K2
CO3	Apply modulation techniques to transmit information effectively over various communication channels.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Radiation Propagation 1.1 Fundamentals of electromagnetic waves – Propagation of waves - ground Waves – sky waves – space waves. 1.2 Radio broadcasting –Transmission and reception – AM and FM.	K1 – K3	9	1-3
2	Basics of Wireless Communication 2.1 Wireless Transmission: Introduction to mobile communications - frequencies. 2.2 Signals - Signal propagation - Cellular systems – GSM.	K1 – K3	9	1-3

UNIT	CONTENT	CL	Hrs	CO
3	Mobile Communications 3.1 Modern Wireless Communication Systems: 1G, 2G, 3G and 4G network. 3.2 Bluetooth – GPS – Hotspot.	K1 – K3	8	1-3

BOOKS FOR STUDY

Ambrose, A., T. Vincent Devraj, *Elements of Solid State Electronics*. Meera, K.K. Dist, 1990.
 Jochen Schiller, *Mobile Communications*. 2nd edition, Addison-Wesley, New Delhi, 2003.
 Mehta. V.K., *Principles of Electronics*, S Chand, New Delhi, 1993.
 Sarkar Subir Kumar, *Optical Fibres and Fibre Optic Communication Systems*, S Chand, New Delhi, 1997.

BOOKS FOR REFERENCE

Halliday David, Resnik Robert and Walker Jearl. *Fundamentals of Physics*, John Wiley, New Delhi, 2005.
 Chattopadhyay D., and Rakshit P.C., *Electricity and Magnetism*, New Central Book Agency, Kolkata, 2005.
 Griffiths David J., *Introduction to Electrodynamics*. Prentice, New Delhi, 1997.
 Mahajan A.S and A. A Rangwala. *Electricity and Magnetism*. Tata McGrawHill, New Delhi, 1988.

PATTERN OF ASSESSMENT

No End-Semester Examination

Continuous Assessment Test:

Total Marks: 25

Section	Knowledge Level	Marks	Pattern
A	K1	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
B	K2, K3	15	Part – A 1 x 5 = 5 marks (1 out of 2 questions to be answered at K2 level) Part – B 2 x 5 = 10 marks (2 out of 3 questions to be answered at K3 level)

Other Components:

Total Marks: 25

Seminar/Presentation/Quiz/Assignments

All K1 – K3 levels to be assessed

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Independent Elective Course Offered by Department of Physics to
B.A. / B.Sc. / B.Com. / B.V.A. /B.C.A. / B.S.W. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

GEOPHYSICS

CODE:23PH/UI/GP23

CREDITS:3

OBJECTIVE OF THE COURSE

- To learn the basics of Geophysics and the dynamics of Earth

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Understand the structure and evolution of our planet
- Acquire knowledge on the formation of oil and gas.
- Apply physics to the study of earth
- Describe the Earth and the Universe in their generality.
- Understand the fundamentals of Seismology for the exploration of oil reservoirs.

Unit 1

The Earth as a Planet

- 1.1 Solar System - Kepler's Law of Planetary Motion - Bode's Law
- 1.2 Characteristics of Planet - Origin of the Solar System - Earth's Structure

Unit 2

Gravity and the Figure of the Earth

- 2.1 Earth Size and Shape - Gravitation- Law of Universal Gravitation- Gravitational Acceleration - Gravitational Potential
- 2.2 Earth's Rotation - Earth's Figure and Gravity

Unit 3

Seismology and Seismic Waves

- 3.1 Elastic Theory- Elastic - an Elastic and Plastic Behavior of Materials - Elastic Waves - Body Waves - Surface Waves
- 3.2 Seismograph – Introduction - Various Seismometers - Seismic Wave Propagation- Introduction - Huygens's Principle – Diffraction - Fermat's Principle

Unit 4

Geomagnetism

- 4.1 Introduction - Discovery of Magnetism - Magnetic Properties of Material- Diamagnetic - Paramagnetic – Ferromagnetic - Curie Temperature
- 4.2 Magnetometers - Flux Gate Magnetometer - Proton Precession Magnetometer

Unit 5

Petroleum Geology

- 5.1 Introduction (Origin and Theory of Hydrocarbons) - Source Rock – Migration - Reservoir Rock - Classification of Reservoir Rocks - Physical Characteristic of Reservoir Rock (Depth, Area and Thickness, Porosity, Permeability) - Cap Rocks
- 5.2 Traps - Types of Traps (Structural Traps, Salt Dome Traps, Stratigraphic Traps, Combinational Traps)

BOOKS FOR STUDY

Baker Hugher *INTEQ. Petroleum Geology*. Mexico: Bureau of Mines, 2016.

Robert.J.Lilie. *Whole Earth Geophysics*. New Jersey: Prentice, 1999.

William Lowrie, *Fundamentals of Geophysics*. U.K: Cambridge, 1997.

BOOKS FOR REFERENCE

Don.L.Anderson. *Theory of the Earth*, Boston: Blackwell Scientific, 1989

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 5 = 25 Marks (5 out of 7 to be answered)

Section C – 3 x 15 = 45 Marks (3 out of 4 to be answered)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.Sc. Degree
Branch IV CHEMISTRY
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600086

DEPARTMENT OF CHEMISTRY

PROGRAMME DESCRIPTION

The Bachelor of Science degree in Chemistry at Stella Maris College (Autonomous) aims to provide quality education in Chemistry with an emphasis on interdisciplinary research and skill development. The interdisciplinary approach encompassing linkages and collaborations with academia, industry and research organisations encourages and stimulates critical thinking and scientific curiosity. The undergraduate programme builds on a core of courses covering the principal areas of Chemistry such as Organic, Inorganic, Physical and Analytical Chemistry. Students receive extensive hands-on experience with scientific equipment thus giving them the requisite skills for problem solving, data analysis and interpretation. Students are trained to address social and environmental issues with professional and personal integrity and ethics.

VISION OF THE DEPARTMENT

To establish a progressive learning environment and research that advances the discipline and fosters the development of innovation and discovery to address increasingly complex challenges and problems that impact society and the environment.

MISSION OF THE DEPARTMENT

To adopt an interdisciplinary approach, network with industry and research institutions to create a synergy that will catalyse progress of the individual and society.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.Sc. Chemistry Programme, the students will be able to

PSO1	Core competency demonstrate competency in the theoretical concepts and practical skills in the core areas of Chemistry
PSO2	Skill Development and Problem solving strengthen their professional skills through planning and carrying out scientific experiments, recording, interpreting and solving complex scientific problems using tools and technologies
PSO3	Interdisciplinary research identify research topics through an interdisciplinary approach and carry out independent research
PSO4	Communication Skills communicate their ideas and knowledge coherently and effectively to a scientific community
PSO5	Social Responsibility implement the concepts learned to address social, economic and environmental problems using ethical and moral standards

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Sc. Chemistry 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III														
Major Core	4	5	4	5	4	5	4	5	4	5	4	5	24	30
			3	4	3	4			4	5	4	5	14	18
											4	5	4	5
											4	5	4	5
Major Practical	2	3	2	3	2	3	2	3	2	3	2	3	12	18
									1	2	1	2	2	4
Allied Core	5	5	5	5	3	3	3	3					16	16
Allied Practical					2	3	2	3					4	6
	Offered by MT dept.				Offered by PH dept.									
Major Elective							5	5	5	5			10	10
Int. Dis. Core									5	6			5	6
											Total		95	118
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3					3	3					6	6
Soft Skills (EL)	3	3											3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library													0	0
Mentoring		1		1									0	2
											Total		4	4
Total	26	30	25	30	24	30	25	30	25	30	24	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH IV - CHEMISTRY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23CH/MC/GC14	General Chemistry	4	4	1	0	3	50	50	100
23CH/MC/P112	Volumetric Analysis Practical	2	0	0	3	3	50	50	100
23CH/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
23EL/SS/PD13	Life Skills:Personality Development	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
Allied Core offered to students of Chemistry by Dept. of MT									
23MT/AC/MC15	Mathematics for Chemistry I	5	5	0	0	3	50	50	100
SEMESTER-II									
23CH/MC/OC24	Organic Chemistry I	4	4	1	0	3	50	50	100
23CH/MC/AC23	Analytical Chemistry	3	3	1	0	3	50	50	100
23CH/MC/P222	Inorganic Qualitative Analysis Practical I	2	0	0	3	3	50	50	100
23CH/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
Allied Core offered to students of Chemistry by Dept. of MT									
23MT/AC/MC25	Mathematics for Chemistry II	5	5	0	0	3	50	50	100
SEMESTER-III									
23CH/MC/IC34	Inorganic Chemistry I	4	4	1	0	3	50	50	100
23CH/MC/PC33	Physical Chemistry I	3	3	1	0	3	50	50	100
23CH/MC/P332	Inorganic Qualitative Analysis Practical II	2	0	0	3	3	50	50	100
Allied Core offered to students of Botany and Zoology by Dept. of Chemistry									
23CH/AC/FB33	Fundamentals of Biochemistry I	3	3	0	0	3	50	50	100
Allied Core offered to students of Physics by Dept. of Chemistry									
23CH/AC/FC33	Fundamentals of Chemistry I	3	3	0	0	3	50	50	100
Allied Core offered to students of Physics, Botany and Zoology by Dept. of Chemistry									
23CH/AC/P132	Biochemistry Practical I	2	0	0	3	3	50	50	100
CD / ET / SC	Value Education	2	2	0	0	-	50	-	100
	General Elective II / Basic Tamil II								
Allied Core offered to students of Chemistry by Dept. of PH									
23PH/AC/PC33	Physics for Chemistry I	3	3	0	0	3	50	50	100
23PH/AC/P132	Physics Practical I	2	0	0	3	3	50	50	100
SEMESTER-IV									
23CH/MC/OC44	Organic Chemistry II	4	4	1	0	3	50	50	100
23CH/MC/P442	Organic Chemistry Practical I	2	0	0	3	3	50	50	100
Allied Core offered to students of Botany and Zoology by Dept. of Chemistry									
23CH/AC/FB43	Fundamentals of Biochemistry II	3	3	0	0	3	50	50	100
23CH/AC/P242	Biochemistry Practical II	2	0	0	3	3	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH IV - CHEMISTRY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Allied Core offered to students of Physics by Dept. of Chemistry									
23CH/AC/FC43	Fundamentals of Chemistry II	3	3	0	0	3	50	50	100
23CH/AC/P342	General Chemistry Practical	2	0	0	3	3	50	50	100
23CH/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
Allied Core offered to students of Chemistry by Dept. of Physics									
23PH/AC/PC43	Physics for Chemistry II	3	3	0	0	3	50	50	100
23PH/AC/P242	Physics Practical II	2	0	0	3	3	50	50	100
	Major Elective I								
SEMESTER-V									
23CH/MC/OC54	Organic Chemistry III	4	4	1	0	3	50	50	100
23CH/MC/PC54	Physical Chemistry II	4	4	1	0	3	50	50	100
23CH/MC/P551	Biochemistry Practical	1	0	0	2	3	50	50	100
23CH/MC/P652	Physical Chemistry Practical I	2	0	0	3	3	50	50	100
	Major Elective II								
	General Elective III								
	SAP / SL								
Interdisciplinary Core (CH and BT) to students of Chemistry and Botany									
23ID/IC/BA55	Bioanalytical Techniques	5	5	1	0	3	50	50	100
SEMESTER-VI									
23CH/MC/IC64	Inorganic Chemistry II	4	4	1	0	3	50	50	100
23CH/MC/PC64	Physical Chemistry III	4	4	1	0	3	50	50	100
23CH/MC/SP64	Spectroscopy	4	4	1	0	3	50	50	100
23CH/MC/BC64	Biochemistry	4	4	1	0	3	50	50	100
23CH/MC/P761	Organic Chemistry Practical II	1	0	0	2	3	50	50	100
23CH/MC/P862	Physical Chemistry Practical II	2	0	0	3	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
Major Electives									
23CH/ME/PH45	Pharmaceutical Chemistry	5	4	0	1	3	50	50	100
23CH/ME/PL45	Polymer Chemistry	5	4	0	1	3	50	50	100
23CH/ME/CC45	Computers in Chemistry	5	3	0	2	3	50	50	100
23CH/ME/FC45	Food Chemistry	5	4	0	1	3	50	50	100
23CH/ME/PR45	Project	5	0	0	5	-	50	50	100
General Electives									
23CH/GE/CP22	Cosmetics and Personal Care	2	2	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH IV - CHEMISTRY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23CH/GE/NH22	Nutraceuticals and Health Care	2	2	0	0	-	50	-	100
23CH/GE/FA22	Food Quality and Detection of Food Adulteration	2	1	0	1	-	50	-	100
23CH/GE/BN22	Basic Nutritional Chemistry	2	2	0	0	-	50	-	100
23CH/GE/FC22	Forensic Chemistry	2	2	0	0	-	50	-	100
23CH/GE/CE22	Chemistry in Everyday Life	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness / Service Learning Course									
Social Awareness Courses									
23CH/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23CH/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23CH/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23CH/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23CH/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23CH/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23CH/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23CH/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23CH/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Service Learning Course (specific to the Department)									
23CH/SL/PA52	Pollutants and Adulterants	2	2	0	0	-	50	-	100
Independent Electives									
23CH/UI/IC23	Industrial Chemistry	3	0	0	0	3	-	100	100
23CH/UI/DD23	Drugs and Diseases	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**B.Sc. DEGREE: BRANCH IV – CHEMISTRY****SYLLABUS**

(Effective from the academic year 2023-2024)

GENERAL CHEMISTRY**CODE: 23CH/MC/GC14****CREDITS: 4****L T P: 4 1 0****TOTAL HOURS: 65****OBJECTIVES OF THE COURSE**

- To enable understanding of the basic concepts of atomic structure, periodicity of elements, acid-base theories, nuclear chemistry and organic chemistry
- To introduce periodic trends and properties of elements in the periodic table
- To familiarize students with theories of acids and bases and atomic structure models
- To promote understanding of the various concepts of nuclear chemistry
- To facilitate understanding and interpretation of structure and bonding of organic molecules

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect the fundamentals of periodicity of elements, atomic structure, acids and bases, nuclear chemistry and organic chemistry	K1
CO2	calculate eigen values and eigen functions, categorize periodic properties of s, p and d elements, compare radioactive disintegration series and differentiate the types of reactive intermediates in organic chemistry	K2
CO3	apply the concepts of periodicity of elements, dual nature of light, electromagnetic spectrum, quantum numbers, acid-base theories, half-life of disintegration, nomenclature and classification of organic compounds to solve problems	K3
CO4	analyse elements based on their atomic structure and periodic properties, classify radioactive elements based on their stability, binding energy and mass defect and develop mechanisms based on organic reagents and reactions.	K4
CO5	evaluate the effect of electronic displacements in covalent bonds on molecular stability and chemical reactivity, investigate the applications of nuclear chemistry, explain the chemical behaviour of elements from their periodic properties and solve problems in atomic structure	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Atomic structure 1.1 Rutherford's nuclear model of the atom. Planck's quantum theory of radiation. Photoelectric effect. Bohr's theory, its limitations and atomic spectrum of hydrogen atom. 1.2 Wave mechanics: de Broglie equation, Davisson - Germer experiment. Heisenberg's principle of uncertainty. Compton Effect.	K1- K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	1.3 Postulates of Quantum mechanics; operators- Hermitian operators, Laplacian and Hamiltonian operators, Eigen functions and Eigen values of operators. Conditions for a well-behaved function, Schrodinger wave equation (no derivation). Significance of ψ and ψ^2 1.4 Quantum numbers and their significance. Normalized and orthogonal wave functions. Sign of wave functions. Shapes of orbitals (<i>s, p, d, f</i>)			
2.	Periodicity of Elements 2.1 Periodic Table, horizontal, vertical and diagonal relationships in the periodic table – Li-Mg, Be-Al, B-Si 2.2 Periodicity of properties of s, p and d – block elements with respect to atomic radii, ionic radii, covalent radii, ionization energy 2.3 Periodicity of properties of s, p and d - block elements with respect to electronegativity, electron affinity 2.4 Inert pair effect, effective nuclear charge – screening effect, Slater rules	K1- K5	10	1-5
3.	Acids and Bases 3.1 Concepts: Bronsted-Lowry, Lux-Flood, Solvent -system and Lewis 3.2 Relative strength of acids and bases: Effect of solvent, levelling effect, polarity and substituents 3.3 HSAB - Principle and its applications	K1- K4	5	1-4
4.	Nuclear Chemistry 4.1 Elementary Particles - Concept of Nuclides, representation of isobars, isotones, isotopes with examples. Nucleus structure – Liquid Drop and Shell Model. Nuclear stability – <i>n/p</i> ratio, binding energy, mass defect and magic numbers 4.2 Radioactive elements, modes of decay – Neutron, Positron Theory of α , β and γ emission, characteristics of α , β and γ particles, K-electron capture and positron emission. Half-life period, Geiger – Nuttall rule. Radioactive displacement laws – Soddy, Fajan and Russel. Radioactive decay series $4n$, $4n+1$, $4n+2$ and $4n+3$ 4.3 Detection and measurement of radioactivity - Ionization chamber, Geiger- Muller counter and Scintillation counter. Artificial radioactivity - Artificial transmutation of elements, nuclear reactions – nuclear fusion and fission	K1- K5	15	1-5
5.	Introductory Organic Chemistry 5.1 IUPAC nomenclature of organic compounds 5.2 Types of organic reaction and reagents: Nature of bond fission – Homolytic and Heterolytic. Types of reagents – Electrophiles and Nucleophiles. Substitution, Addition, Elimination and Rearrangement reactions (definition with an example)	K1- K5	20	1-5

UNIT	CONTENT	CL	Hrs	CO
	5.3 Reactive intermediates with examples – Carbocations, Carbanions and Free Radicals - Conditions favouring their formation, stability and structure, their reactions with examples. Electron displacement effects - Inductive, Electromeric, Mesomeric, Resonance, Hyperconjugation and Steric effects, Tautomerism 5.4 Concept of Aromaticity – Definition, Hückel's Rule – Application to benzenoid and non-benzenoid compounds - Benzene, naphthalene, cyclopropenyl cation, cyclopentadienyl anion and tropylium cation			

BOOKS FOR STUDY

Lee J. D., *Concise Inorganic Chemistry*. New Delhi: Oxford University Press, 2018.
 Jain M. K. and Sharma S. C., *Modern Organic Chemistry*, Vishal Publishing & Co, 2017.
 Morrison R. T., Boyd R. N. and Bhattacharjee S. K., *Organic Chemistry*, Pearson, Dorling Kindersley, 2016.
 Puri B. R., Sharma L. R., Madan S. and Pathania. *Principles of Physical Chemistry*, New Delhi: Vishal, 2018.
 Puri B.R, Sharma L.R and Kalia K.C. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2017.

BOOKS FOR REFERENCE

Arnikar H. J. *Essentials of Nuclear Chemistry*, New Delhi: New Age International, 2011.
 Madan R.D. *Satyaprakash's Modern Inorganic Chemistry*, New Delhi: Sultan Chand, 2014.
 Solomons T. W. G., Fryhle C. B. and Snyder S.A. *Organic Chemistry*, New Delhi, Wiley India, 2017.

WEB RESOURCES

<http://iupac.org>
<http://pubs.acs.org>
<https://edu.rsc.org/eic>
<https://phet.colorado.edu>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/GC14												
I	Course Title: GENERAL CHEMISTRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	2	2	3	3	3	3	2
CO 2	3	3	3	2	3	3	2	2	3	3	3	3	2
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

VOLUMETRIC ANALYSIS PRACTICAL

CODE: 23CH/MC/P112

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To impart the skills required to handle and calibrate apparatus used in volumetric analysis
- To instil understanding of the principle of different types of titrations
- To enhance the skill required to estimate various metal ions and acids and bases by volumetric analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect the principles of different titrations and calibration, concepts of molarity, normality and equivalent weight	K1, K2
CO2	differentiate between acids/bases and oxidising/reducing agents	K3
CO3	calculate the molarity, normality and equivalent weights of acids, bases, oxidising and reducing agents	K4
CO4	categorise indicators based on the type of titration and pH	K5
CO5	estimate the amount of a metal ion/acid/base present in the whole of the given solution	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Calibration Calibration of Burettes / Pipettes	K1-K2	3	1
2.	Volumetric Analysis Theory and Principle behind the different titrations, equivalent weight calculations, concentration terms-normality, molarity and molality	K1-K5	6	1-4
3.	Titration 3.1 Estimation of Na_2CO_3 / HCl 3.2 Estimation of Oxalic Acid (Permanganimetry) 3.3 Estimation of Dichromate (Iodometry) 3.4 Estimation of Iron (Dichrometry / Permanganimetry) 3.5 Estimation of Magnesium / Zinc (Complexometry) 3.6 Estimation of Chloride (Argentometry), Estimation of Hardness	K1-K6	30	5

BOOKS FOR STUDY

Sathian J. *Volumetric Estimations – Lab Manual*. 2010.

Venkateswaran V. Veeraswamy R. and Kulandaivelu A. R. *Basic Principles of Practical Chemistry*, Sulthan Chand, 1997

BOOKS FOR REFERENCE

Vogel A. I., *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2000.

Mendhan J., *Vogel's Textbook of Quantitative Chemical Analysis*, Pearson 2009.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 hours

Two – Three questions related to Theory of Volumetric Analysis - 05 marks
Equations and short Procedure (10 minutes) - 05 marks

Experiment (40 marks)

Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5% error	-	20 marks
Above 5%	-	15 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Two – Three questions related to Theory of Volumetric Analysis - 05 marks
Equations and short Procedure (10 minutes) - 05 marks

Experiment (40 marks)

Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5% error	-	20 marks
Above 5%	-	15 marks

Section	Cognitive Level	Marks	Pattern
Theoretical Principles and Procedure	K1-K2	5	Subjective
Viva	K3-K5	5	Subjective
Experiment	K1-K6	40	Subjective

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CH/MC/P112												
I	Course Title: Volumetric Analysis Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	3	3	3	3	1	2	3
CO 2	3	3	3	2	2	3	3	2	3	3	1	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	1	2	3
CO 4	3	3	3	3	3	2	2	2	3	3	1	2	3
CO 5	3	3	3	3	3	2	3	3	3	3	1	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23CH/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course Offered by the Department of Mathematics for
B.Sc. (Chemistry) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR CHEMISTRY I

CODE: 23MT/AC/MC15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the genesis of the basic mathematical concepts and tools required
- To apply the concepts of matrices and theory of equations in solving problems related to chemistry
- To understand the various concepts of differentiation and integration
- To familiarize with a few types of partial differential equations and solve them
- To introduce the concept of finite differences

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the fundamental concepts of matrices, algebra, calculus, partial differential equations and finite difference methods	K1
CO2	understand different techniques in obtaining approximate solutions to complex mathematical problems, solving algebraic problems and to employ the various techniques in finding derivatives and integration	K2
CO3	solve the results of calculus through illustrations, equations, and to utilize several methods in interpolation, differentiation and integration	K3
CO4	analyse solutions that are obtained by using techniques of calculus, algebra and finite differences and to classify partial differential equations and obtain their solutions systematically	K4
CO5	evaluate the eigen vectors, integrals and to predict appropriate methods to find the solution of problems on differential and interpret results using appropriate numerical techniques	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Properties of Matrices 1.1 Eigenvalues and Eigenvector 1.2 Cayley Hamilton Theorem (statement only) 1.3 Diagonalization of Matrices possessing Distinct Eigenvalues 1.4 Eigenvalues for symmetric matrices	K1- K5	12	CO1-5
2	Theory of Equations 2.1 Relation Between Roots and Coefficients 2.2 Solution of Equations under given Conditions On Roots 2.3 Transformation of Equations 2.4 Reciprocal Equations	K1- K5	13	CO1-5
3	Differential Calculus 3.1 Differentiation of Hyperbolic and Inverse Hyperbolic Functions 3.2 Higher Derivatives - n^{th} derivative – Standard Results 3.3 n^{th} derivative of algebraic and rational functions of the form $\frac{f(x)}{\varphi(x)}$ 3.4 Trigonometric Transformations Integral Calculus 3.5 Methods of Integration of functions of the Following Types: $\frac{1}{(x+p)\sqrt{ax^2+bx+c}}; \sqrt{(x-a)(b-x)};$ $\frac{1}{\sqrt{(x-a)(b-x)}}; \sqrt{\frac{(x-a)}{(b-x)}}$	K1- K5	14	CO1-5

4	Partial Differential Equations 4.1 Formation of Equations by Elimination of Constants and an Arbitrary Function (Problems only) 4.2 Definition of General, Particular, Complete and Singular Integral 4.3 Solutions of First Order Equations in their Standard Forms 4.4 Lagrange's Method of Solving of Linear Equations $Pp + Qq = R$	K1- K5	13	CO1-5
5	Finite Difference Methods 5.1 Finite Differences 5.2 Forward Difference Table 5.3 Interpolation Methods 5.4 Newton's Forward Formula 5.5 Newton's Backward Formula 5.6 Binomial Method 5.7 Lagrange's Formula	K1- K5	13	CO1-5

BOOKS FOR STUDY

Narayanan, S. and T.K. Manicavachagam Pillai. *Calculus Volume-I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2017.

Chapter 2: Sections 3.11-3.14

Chapter 3: Sections 1.1 – 1.5

Narayanan, S, et al. *Ancillary Mathematics Volume - I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2013.

Chapter 2: Sections 2.2 -2.4

Chapter 3: Sections 3.4, 3.5

Chapter 4: Sections 4, 4.1 - 4.3

Narayanan S., et al. *Ancillary Mathematics Volume – II*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2011.

Integral Calculus- Chapter 1: Sections 8 (cases 5 & 8)

Differential Equations – Chapter 6: Sections 1-3, 5, 6

BOOKS FOR REFERENCE

Das, B.C., and B.N. Mukherjee. *Differential Calculus*. 52nd ed., Kolkata: U.N. Dhur and Sons Pvt. Ltd., 2012.

Manicavachagam Pillai, T.K., et al. *Algebra Volume I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Manicavachagam Pillai, T.K., et al. *Algebra Volume II*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2004.

Singaravelu, A. *Allied Mathematics*. Chennai: Meenakshi Agency, 2010.

Arumugam, S., et al. *Numerical Methods*. Scitech Publications Pvt. Ltd., 2008.

Singaravelu, A., and Ramaa R. *Calculus of Finite Differences & Numerical Analysis (Allied Paper I)*. Chennai: Meenakshi Agency, 2003.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MC15												
	Course Title: MATHEMATICS FOR CHEMISTRY I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	2	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	2	3	2
CO 4	3	3	3	3	3	3	1	1	2	2	2	2	2
CO 5	3	3	3	3	3	3	1	1	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

ORGANIC CHEMISTRY I

CODE: 23CH/MC/OC24

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To enable understanding of molecules as optically active or inactive, chiral or achiral, racemic or meso, enantiomers or diastereomers and assign absolute configuration.
- To instil comprehensive understanding of types of substitution, addition and elimination reactions
- To apply learned concepts and mechanisms of carbonyl compounds to analyse and solve problems relating to nucleophilic addition, oxidation and reduction reactions of carbonyl compounds

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect the basic concepts of stereochemistry, types of reactions, structure of carbonyl compounds and oxidation and reduction reactions	K1
CO2	compare the reactivity of substrates in the presence of reagents, solvents and differentiate the types of reactive intermediates in organic reactions	K2
CO3	apply the concepts of stereochemistry and kinetics in organic reactions to solve problems.	K3
CO4	analyse the interconversion of different projections of molecules, stability of conformers in acyclic and cyclic compounds and examine the mechanisms based on organic reagents and reactions.	K4
CO5	evaluate the effect of stereochemistry in chemical reactivity and product formation in organic reactions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Stereochemistry 1.1 Stereoisomerism-Definition and Types, Geometrical Isomerism - <i>E-Z</i> Notation. Optical Isomerism – Definition, Conditions for Optical Activity and its Measurement, Specific Rotation, Asymmetric Centre, and Chirality. Enantiomers, Diastereomers, racemic and meso Compounds (Definition and Examples)	K1- K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	<p>1.2 Notations for Optical Isomers with one and two Asymmetric Carbon Atoms. Specification of Configuration - <i>D-L</i> and <i>R-S</i> Notations (Cahn-Ingold-Prelog Rules), Erythro and Threo representations</p> <p>1.3 Conformational Isomerism-Interconversion of Newman Projection, Fischer, Flying Wedge and Sawhorse Projections. Conformational Analysis of Ethane, nButane and Cyclohexane</p> <p>1.4 Stereospecific and Stereoselective Reactions - Addition of hydrogen and bromine to Alkenes-Syn and Anti Addition</p>			
2.	<p>Electrophilic and Nucleophilic Substitution Reactions</p> <p>2.1 Aliphatic nucleophilic substitution reaction - S_N1, S_N2, S_Ni, and S_{NCB}. Factors governing S_N1, S_N2 Reactions - Effects of Structure, Solvent, nature of entering and leaving group. Kinetics, stereochemistry of nucleophilic aliphatic substitution, duality of mechanism, Walden Inversion. S_N1 vs S_N2</p> <p>2.2 Aromatic nucleophilic substitution reaction- S_NAr Mechanism-Benzyne intermediate formation and evidences. Aromatic electrophilic substitution reaction - sulphonation, nitration, halogenation, Friedel Crafts alkylation and acylation reaction, Effect of substituent already present in the ring, ortho / para ratio, orientation in di substituted compounds</p>	K1-K5	15	1-5
3.	<p>Addition and Elimination Reactions</p> <p>3.1 Addition: Electrophilic Addition- orientation and reactivity, Markownikoff and Anti- Markownikoff rule. Examples of Addition Reaction- Addition of Hydrogen, Halogen, Hydrogen halide, Hypohalous acid, sulphuric acid, water, hydroxylation, epoxidation, hydroboration (with Propene and Propyne as Examples), ozonolysis, mechanism of the peroxide initiated addition of HBr. Electrophilic addition to conjugated dienes - 1, 2 and 1, 4 - addition.</p> <p>3.2 Elimination: E_1, E_2 and E_{1cB} Mechanisms, orientation and reactivity (Hoffmann and Saytzeff rule) and evidences. Stereochemistry of E_1 and E_2 reactions. Syn- and Anti- Elimination and Elimination vs Substitution</p>	K1-K5	15	1-5
4.	<p>Aliphatic, Aromatic and Unsaturated Carbonyl Compounds</p> <p>4.1 Structure of Carbonyl Group, acidity of alpha hydrogen, Keto-Enol tautomerism – evidence for</p>	K1-K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	the two forms. Relative reactivity of Aldehydes and Ketones. A comparison of reactivity with aromatic carbonyls and its derivatives 4.2 Nucleophilic addition reactions: Aldol Condensation, Cannizzaro, Crossed Cannizzaro, Claisen- Schmidt, Houben- Hoesch (Synthesis of Phenolic Ketone), Benzoin Condensation, Haloform, Knoevenagel, Reformatsky and Perkin reactions 4.3 Acrolein, Crotonaldehyde, Cinnamaldehyde – Preparation and reactions.			
	Oxidation and Reduction Reactions of Carbonyl Compounds 5.1 Oxidation - Meerwein-Pondorf-Verley, Oppenaur and Baeyer-Villiger 5.2 Reduction - Clemmensen, Wolff-Kishner, LiAlH_4 and NaBH_4	K1- K4	8	1-4

BOOKS FOR STUDY

Kalsi P. S. *Stereochemistry: Conformation and Mechanism*, New Age International Publisher, 10th Edition, 2019

Morrison.R.T. Boyd R.N & Bhattacharjee.S.K. *Organic Chemistry*. Pearson, Dorling Kindersley 2016

Ahluwalia V K. *Organic Reaction Mechanisms*. New Delhi: Narosa,(2011)

N. Tewari, *Advanced Organic Stereochemistry*, Books & Allied Ltd, 2009

Tewari, K.S. and Vishnoi, N. K. *A Text Book of Organic Chemistry*, 4th edition, Vikas Publishing 2017

M K Jain & Sharma, *Modern Organic Chemistry*, Vishal &Co Publishing, Golden Jubilee Year edition, 2020

Bahl & Bahl, *Advanced Organic Chemistry*, S Chand, 5th Edition, 2012

BOOKS FOR REFERENCE

Stanley H Pine, *Organic Chemistry*, McGraw Hill Education, 2009

T. W. Graham Solomons , Craig B. Fryhle, Scott A. Snyder, *Organic Chemistry*, Wiley, Global Edition, 2017

Michael B. Smith, Jerry March .*March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure*. Wiley 2007

Paula Y. Bruice. *Organic Chemistry*. Prentice Hall, 2010

Reinhard Brückner. *Organic Mechanisms - Reactions, Stereochemistry and Synthesis*. Springer, 2010

WEB RESOURCES

<http://www.organic-chemistry.org/> <http://www.chemguide.co.uk/orgmenu.html>

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/intro1.htm>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Model

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none">• Seven questions to be set• Six questions to be answered out of seven.• Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none">• Five questions to be set• Four questions to be answered out of five• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none">• Two questions to be set with either/or pattern• Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/OC24												
	Course Title: ORGANIC CHEMISTRY -I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	2	3	2	2	2	2
CO 2	3	3	2	2	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	2	2	2	3	1	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	1	3	3	3	2	2
CO 5	3	3	2	2	3	3	2	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023–2024)

ANALYTICAL CHEMISTRY

CODE: 23CH/MC/AC23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce the key concepts of Analytical Chemistry with a special reference to its applications
- To impart the understanding of the common sampling strategies for solids, liquids and gases
- To enable understanding of the importance of statistical measures
- To provide knowledge on the quantitative titrimetric analysis
- To familiarize students with separation techniques and Thermoanalytical methods

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define terms in analytical chemistry, relate to fundamental concepts, list types of analytical techniques	K1
CO2	discuss the different types of analytical techniques, statistical analysis and factors affecting solvent extraction, chromatography, equivalent point and thermograms	K2
CO3	prepare various concentrations of solutions and laboratory samples; apply relevant statistical methods to chemical data; and the principles of titrimetric and thermometric analysis	K3
CO4	classify various analytical techniques and statistical analysis, deduct the significant figures during the mathematical operations; separate simple organic mixtures using basic separation techniques	K4
CO5	interpret analytical data using statistical techniques and evaluate the importance of analytical techniques used in separation of chemical compounds, titrimetry and thermometry	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Stoichiometry 1.1 Important Units of Measurement – S.I Units, Distinction between Mass and Weight, Concentration of Solutions – Moles, Millimoles, Milli equivalence, Molality, Molarity, Normality, Percentage by Weight and Volume, ppm. Ppb. Density and Specific Gravity of Liquids. Stoichiometry Calculations	K1-K3	6	1-3
2.	Sampling and Errors 2.1 Sampling Techniques-Sampling and Sample Handling of Liquids and Gases, Particulate Solids, Metals and Alloys. Preparation of a Laboratory Sample 2.2 Errors-Types of Errors, Accuracy, Precision, Minimization of Errors. Significant Figures. Methods of Expressing Precision: Mean, Median, Average Deviation, Standard Deviation, Coefficient of Variation, Confidence Limits, Q-test, F-test, T-test. The Least Square Method for Deriving Calibration Plots	K1-K5	12	1-5
3.	Separation Techniques 3.1 Solvent Extraction - Liquid-Liquid Extraction – Factors affecting Solvent Extraction, Soxhlet and Rotavapor Extraction 3.2 Chromatography Column, TLC, Paper and Electrophoresis- Principle, Classification, Choice of Adsorbents, Solvents, Preparation of Column, Elution, Development of Chromatogram and Rf Value	K1-K5	12	1-5
4.	Titrimetry 4.1 Calibration of Burette, Pipette, Standard Flask, Titrant, Titrand, Indicators, Equivalence Point, End Point. Primary and Secondary Standards- Criteria and Preparation. Limitations of volumetric analysis 4.2 Neutralisation Titrations- strong acid-strong base, weak acid strong base titrations, indicators, range of indicator, choice of indicator, feasibility of acid base titrations, effect of Ph on equivalence point. 4.3 Complexation Titrations- metallochromic indicators, masking and demasking agents, Factors affecting Equivalence Point 4.4 Precipitation Titrations- Mohr method and Fajans method of estimation of halides. Redox titrations - Theory of redox indicators (Ferroin and diphenyl amine)	K1-K5	13	1-5
5.	Thermoanalytical Methods 5.1 TGA/DTG and DTA - Principle and Instrumentation, Thermal Analysis of Silver Nitrate, Calcium Oxalate, Methods of obtaining Thermograms, Factors affecting TGA/DTA 5.2 DSC – Principle and Applications 5.3 Thermometric titrations - Principle, process and applications	K1-K5	9	1-5

BOOKS FOR STUDY

Vogel. A.I. *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2009.

Gopalan. R, Subramanian, P.S and Rengarajan, K. *Elements of Analytical Chemistry*. New Delhi: Sultan Chand, 2004.

Skoog, D.A, West, D.M, Holler F James and Crouch R Stanley. *Fundamentals of Analytical Chemistry*. Thomson Asia, 2014.

Sharma B. K. *Instrumental methods of Chemical Analysis*. Meerut: Goel Publishing House, 2005.

BOOKS FOR REFERENCE

Skoog, Douglas A, James F. Holler & Timothy A. Nieman. *Principles of Instrumental Analysis*. Singapore: Harcourt Asia, 2001.

Shoba Ramakrishnan and Banani Mukhopadhyay, *Essentials of Analytical Chemistry*. Noida: Pearson, 2018

Usharani, S. *Analytical Chemistry. Techniques and Instrumentation*. Chennai: Lakshmi Publications, 2021.

Christian D Gary, Dasgupta K Purnendu, Schug A Kevin. *Analytical Chemistry, An Indian Adaptation*. New Delhi: Wiley, 2020.

WEB SOURCES

<http://www.chemistry.co.nz/stoichiometry.htm>

<https://www.slideshare.net/msakhan61/sampling-in-analytical-chemistry-sajjad-ullah>

<https://pdfneed.com/publication/instrumental-methods-of-chemical-analysis-analytical-chemistry/>

https://www.brainkart.com/article/Factors-Influencing-Solvent-Extraction_30920/

<https://www.youtube.com/watch?v=j9Y-OYZEiTA>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component: **Total Marks: 50**
 Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End Semester Examination: **Total Marks: 100** **Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> • Seven questions to be set • Six questions to be answered out of seven. • Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> • Five questions to be set • Four questions to be answered out of five • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> • Two questions to be set with either/or pattern • Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/AC23												
II	Course Title: ANALYTICAL CHEMISTRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	1	3	3	1	2	2
CO 2	3	3	3	2	3	3	3	2	3	3	1	2	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

INORGANIC QUALITATIVE ANALYSIS PRACTICAL I

CODE: 23CH/MC/P222

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To provide understanding of the fundamental principles of inorganic qualitative analysis
- To instill understanding of solubility product and common ion effect
- To impart the skills required to identify an acid and basic radical in an inorganic salt
- To introduce the synthesis of inorganic complexes

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the concepts of solubility product/common ion effect and the principles of inorganic complex preparation	K1, K2
CO2	perform various chemical reactions and synthesis in a laboratory according to given procedure and safety precautions	K3
CO3	differentiate between acid and basic radicals and identify the appropriate elimination procedure for the interfering acid radical.	K4
CO4	examine the characteristics of a given salt through various chemical tests	K5
CO5	analyse the given inorganic salt and identify the interfering acid radical and basic radical present.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Reactions of interfering acid radicals and basic radicals 1.1 Reactions of the following Acid Radicals: Carbonate, Sulphate, Sulphide, Nitrate, Chloride, Bromide, Fluoride, Oxalate, Phosphate, Arsenite, Arsenate, Chromate and Borate 1.2 Elimination of Interfering Radicals – Fluoride, Oxalate, Phosphate, Chromate and Borate 1.3 Reactions of the Following Basic Radicals and its Group Separations. Lead, Copper, Bismuth, Cadmium, Antimony, Iron, Chromium, Aluminium, Cobalt, Nickel, Manganese, Zinc, Barium, Strontium, Calcium, Ammonium and Magnesium	K1-K5	3	1-4
2.	Inorganic Qualitative Analysis 2.1 Analysis of a given Salt Containing one Cation and one Anion (which will be an interfering ion)	K1-K6	30	1-5
3.	Preparation of Inorganic Complexes (to be tested internally) 3.1 Tetraamminecopper (II) sulphate hydrate 3.2 Tris(thiourea) copper (II)sulphate dehydrate 3.3 Potassium trioxalatoferrate (III)	K1-K3	6	1-2

BOOKS FOR STUDY

Sathian J. *Organic Chemistry Practical* – Lab Manual, 2010.

Vogel A. *Vogel's Textbook of Practical Organic Chemistry*. India: Pearson, 2011.

Sundaram S., Krishnan P. and Raghavan P.S. *Practical Chemistry Part II*. Madras: Viswanathan S. Printers and Publishers, 2009.

Venkateswaran V., Veeraswamy R. and Kulandaivelu A. R. *Basic Principles of Practical Chemistry*. New Delhi: Sultan Chand & Sons, 2012.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 hours

Two to three questions in inorganic qualitative analysis	-	10 marks
General Procedure	-	05 marks
Acid radical	-	15 marks
Elimination procedure	-	05 marks
Basic radicals	-	15 marks
Total	-	50 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Two to three questions in inorganic qualitative analysis	-	10 marks
General Procedure	-	05 marks
Acid radical	-	15 marks
Elimination procedure	-	05 marks
Basic radicals	-	15 marks
Total	-	50 marks

Section	Cognitive Level	Marks	Pattern
Theoretical Principles and Viva	K1-K3	10	Subjective
Procedure	K1-K3	10	Subjective
Experiment	K1-K6	30	Subjective

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CH/MC/P222												
II	Course Title: SEMI-MICRO QUALITATIVE ANALYSIS PRACTICAL - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	2	1	3	2	2	2	2
CO 2	3	3	2	1	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	1	2	2	3	2	3	3	3	2	2
CO 4	3	3	2	1	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	1	3	3	2	1	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23CH/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Sc. (Chemistry) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR CHEMISTRY II

CODE: 23MT/AC/MC25

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart knowledge in Laplace, Fourier series, Statistics for solving mathematical problems in chemistry
- To realize the application of Laplace transform to solve Differential Equations
- To appreciate the expansion of periodic functions as a Fourier series
- To teach statistical tools using correlation and regression
- To introduce the concept of group theory

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall basic mathematical concepts required for students pursuing Chemistry	K1
CO2	understand mathematical tools like Laplace transforms, Inverse Laplace transforms, Fourier series, Statistics to compute simple problems	K2
CO3	apply various techniques like Laplace transforms, inverse Laplace transforms, Fourier series, Statistics and Group theory to real life situations applicable in Chemistry	K3
CO4	analyse to use the appropriate tools in Chemistry	K4
CO5	evaluate the techniques learnt and to solve problems in real life situation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Laplace Transform 1.1 Definition of Laplace transform 1.2 Transforms of $f'(t)$ & $f''(t)$ 1.3 Transformation of Function e^{-at} , $\cos at$, $\sin at$ and t^n , where 'n' is a Positive Integer 1.4 First Shifting Theorem: Laplace Transforms of $e^{-at} \cos bt$, $e^{-at} \sin bt$ and $e^{-at} t^n$	K1- K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Inverse Laplace Transform 2.1 Inverse Laplace Transforms of Functions relating to $e^{-at} \cos bt$, $e^{-at} \sin bt$ and $e^{-at} t^n$. 2.2 Applications to Solutions of Ordinary Differential Equations with Constant Coefficients	K1- K5	12	CO1-5
3	Fourier Series 3.1 Fourier Series: Definition 3.2 Finding Fourier Coefficients for a given Periodic Function with Period 2π 3.3 Odd and Even Functions 3.4 Half-range Fourier Series-Development in Cosine Series, Development in Sine Series	K1- K5	13	CO1-5
4	Statistics 4.1 Correlation 4.2 Scatter Diagram and its Uses 4.3 Karl Pearson's Coefficient of Correlation 4.4 Regression 4.5 Definition and Uses 4.6 Difference between Regression and Correlation 4.7 Graphic Method 4.8 Regression Equations: Regression Equation of Y on X and X on Y	K1- K5	13	CO1-5
5	Group Theory 5.1 Groups–Definitions and Examples 5.2 Properties of a Group 5.3 Order of an Element 5.4 Subgroups 5.5 Permutation Groups 5.6 Cyclic Groups	K1- K5	15	CO1-5

BOOKS FOR STUDY

R S N, Pillai, and V Bagavathi. *Statistics*. New Delhi, S. Chand & Company Pvt., Ltd, Reprint 2013.

Chapter 12 page nos. 396 – 410.

Chapter 13 page nos. 465 – 472(omit algebraic method & regression equation in a bivariate grouped frequency distribution)

S, Narayanan, et al. *Ancillary Mathematics* Volume II. Chennai, S. Viswanathan Printers & Publishers, Reprint 2011.

Chapter 2 Sections 1 - 5
Chapter 7 Sections 1 - 6

Venkatachalapathy, S G. *Modern Algebra*. Chennai, Margham Publications (India) Pvt. Ltd. Second Edition 2004, Reprint 2016.

Chapter 2 page nos. 2.1 – 2.34
Chapter 3 page nos. 3.1 – 3.18
Chapter 4 page nos. 4.1 – 4.11

(Chapter 2, 3 and 4: Theorems and proofs are omitted, Definitions, examples & Simple solved problems only)

BOOKS FOR REFERENCE

Arora, P N. *Topics in Algebra*. New Delhi, Sultan Chand and Sons, Ninth Revised Edition 2005.

S, Narayanan, and T K Manicavachagom Pillay. *Calculus - Volume III*. Chennai, S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Santiago, M L. *Modern Algebra*. New Delhi, Tata McGraw-Hill Education, 2001.

S. C, Gupta and Kapoor V. K. *Fundamentals of Mathematical Statistics*, New Delhi, Sultan Chand & Sons, 2007 Reprint 2014.

Vital, P R. *Mathematical Statistics*. Chennai, Margham Publications Pvt., Ltd., 2002.

WEB RESOURCES

<https://in.video.search.yahoo.com/search/video?fr=mcafee&ei=UTF-8&p=applications+of+laplace+transform+in+chemistry&type=E210IN1316G0#id=7&vid=da5d5a32803e2894267c41211fbde1d&action=click>
https://occamy.chemistry.jhu.edu/courses/AS.030.456/spring_2021/index.php
<https://www.irjet.net/archives/V5/i12/IRJET-V5I12211.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MC25												
	Course Title: MATHEMATICS FOR CHEMISTRY II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 2	3	3	3	3	2	2	1	1	3	3	2	2	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	2	2
CO 4	3	3	3	3	3	3	1	1	2	2	2	2	2
CO 5	3	3	3	3	3	3	1	1	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

INORGANIC CHEMISTRY I

CODE: 23CH/MC/IC34

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To give an understanding of the general trends in the s- and p-block elements.
- To impart understanding of the biological significance of sodium, potassium, magnesium and calcium and the preparation and properties of industrially important compounds.
- To create interest in the chemistry of boron, carbon, nitrogen, sulphur and halogen compounds
- To enhance critical thinking skills through structured problem solving

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the types of bonding and properties of s and p block elements	K1
CO2	Illustrate the bonding involved in the s- and p-block elements and their compounds	K2
CO3	Analyse the bonding and properties of s- and p- block elements and their compounds based on the periodicity of elements	K3
CO4	Evaluate the bonding, properties of s and p block elements based on their position in the periodic table	K4
CO5	Integrate structure and bonding of s- and p- block elements and their compounds to their properties	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Chemical bonding 1.1 Types of Bonds - Ionic, Covalent, Metallic, Coordinate Bonds and properties- melting point, conductivity, solubility, speed of reaction, Lattice Energy - Born-Lande Equation, Born-Mayer and Kapustinskii equations (derivation not required) - Factors affecting Lattice Energy, Born Haber Cycle and its Applications	K1- K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	<p>1.2 Covalent Bond – Lewis Structures of Simple Molecules and Ions, formal charge, Valence Shell Electron Pair Repulsion Theory- effect of lone pair, effect of electronegativity, application of VSEPR theory on BF_3, $[\text{BF}_4]^-$, NH_3, H_2O, PCl_5, SF_4, ClF_3, I_3^-. Covalent Character in Ionic Compounds - Polarisation and Fajan's Rules</p> <p>1.3 Valence Bond Theory (VBT) – Hybridization of orbitals (Acetylene, BeF_2, Ethene, BF_3, CH_4, H_2O, NH_3)</p> <p>1.4 Molecular Orbital Theory (MOT) – Bonding, Antibonding and Nonbonding Orbitals, Linear combination of atomic orbitals, rules for linear combination of atomic orbitals, Application of MOT to He_2, N_2, O_2, O_2^-, O_2^{2-}, CO, NO, HF, Comparison between VBT and MOT.</p>			
2.	<p>Chemistry of s-Block Elements</p> <p>2.1 Group 1 Alkali Metals: Position of Alkali Metals in the Periodic Table, difference between lithium and other group I elements, biological importance of Na, K, Discussion of Alkali Metal Group with respect to their Oxides, superoxides Hydroxides and oxo salts. Extraction of Lithium from Spodumene. Importance of Cryptates and Crown Ethers (complexes, crowns and crypts)</p> <p>2.2 Group 2 Alkaline Earth Metals: Position of Alkali Metals in the Periodic Table, difference between beryllium and other group II elements, biological importance of calcium and Magnesium, Physical and Chemical Properties with respect to Oxides, peroxides, Hydroxides, Halides and Sulphates. Extraction of Beryllium</p>	K1-K5	10	1-5
3.	<p>Chemistry of p-Block Elements – Groups 13 & 14</p> <p>3.1 Boron Family: Periodicity in the Properties of Boron Group with respect to their Oxides, Hydroxides and Halides. Preparation, properties and Bonding of B_2H_6. Preparation, Structure and uses of Boron Nitride and Borazole</p> <p>3.2 Carbon Family: Comparison of Carbon Group Elements - Hydrides, Oxides and Halides. Silicates: Classification and Structure. Silicones- Preparation, Properties and uses</p>	K1- K5	12	1-5
4.	<p>Chemistry of p-Block Elements–Groups 15, 16 & 17</p> <p>4.1 Nitrogen Family: Comparison of Nitrogen group Elements with respect to Oxides, Hydrides and Halides. Preparation, Properties and Structure of</p>	K1- K5	20	1-5

UNIT	CONTENT	CL	Hrs	CO
	Hydrazine, Hydroxylamine, Hydrazoic Acid. Oxyacids of Nitrogen and Phosphorus - Preparation, Properties and Structure. Structure and Applications of Phosphonitrilic Compounds 4.2 Oxygen Family: Comparison of Oxygen Group Elements with respect to Hydrides, Halides, Oxides. Preparation, Properties and Structure of Oxyacids and Peracids of Sulphur. Thionic Acids 4.3 Halogen Family: Comparison of Halogens with respect to the Elements, Hydrides and Oxides. Preparation and Structure of OF_2 , Cl_2O , I_2O_5 and Cl_2O_7 , HClO_4 . 4.4 Interhalogen Compounds: Preparation and Structure of ICl , BrF_3 , IF_3 , IF_5 and IF_7 . Basic Nature of Iodine. Pseudohalogens and Polyhalides			
5.	Chemistry of Group 18 elements 5.1 Occurrence, Position of Noble Gases in the Periodic Table. Preparation, Properties and Structure of Compounds of Xenon - XeF_2 , XeF_6 , XeO_3 , XeOF_2 as per VSEPR Theory 5.2 Clathrate Compounds and its Applications	K1- K5	8	1-5

BOOKS FOR STUDY

Puri B. R., Shama L. R. and Kalia C. I. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2018.

Gopalan R. *Inorganic Chemistry for Undergraduates*. Hyderabad: Universities Press, 2009.

Lee J. D. *Concise Inorganic Chemistry*. New Delhi: Oxford University Press, 2018.

Madan R. D. *Advanced Inorganic Chemistry*. New Delhi: Sultan Chand and Co., 2021

BOOKS FOR REFERENCE

Cotton F. A. and Wilkinson G. *Advanced Inorganic Chemistry*. New Delhi: Wiley Eastern, 2008.

Shriver O. and Atkins P. W. *Inorganic Chemistry*. San Francisco: W. H. Freeman, 2018.

Huheey J. E., Keiter E. A., Keiter R. L. and Medhi O. K. *Inorganic Chemistry - Principles, Structure and Reactivity*, Noida: Pearson, 2019.

WEB RESOURCES

<https://www.vanderbilt.edu/AnS/Chemistry/courses/chem104/experiment2/periodicity/periodicity.htm>

<https://sciencenotes.org/periodic-table-blocks-of-elements>

<https://pubs.acs.org/journal/jceda8>

<https://edu.rsc.org/eic>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/IC34												
III	Course Title: INORGANIC CHEMISTRY - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICAL CHEMISTRY I

CODE: 23CH/MC/PC33

CREDITS: 3

L T P: 3 1 0

TOTAL HOURS: 52

OBJECTIVES OF THE COURSE

- To provide an understanding of crystal systems
- To explain the various cubic lattices
- To impart a comprehensive knowledge on closed packed structures
- To introduce the concept of electrical polarizability and magnetic susceptibility
- To enlighten on concepts of ionic equilibria

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Define the various terms and principles involved in the study of solid state structures, electrical and magnetic properties of materials, ionic and solubility equilibria	K1
CO2	Discuss the characteristic features of crystalline structures inclusive of liquid crystals, types of magnetic materials, acid-base systems and sparingly soluble salts	K2
CO3	Interpret the XRD patterns of cubic systems, solve problems based on acid-base systems, pH of various solutions and buffers and applications of electrical and magnetic properties of materials.	K3
CO4	Analyse various parameters of crystal systems, dipole moment of materials, dissociation constants of acid-base systems, salts using significant mathematical expressions	K4
CO5	Assess concepts related to solid state structures, electrical and magnetic properties of materials and chemical equilibria	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Solid State 1.1 Elements of Symmetry in a cube, Crystalline and amorphous Solids, Isotropy and Anisotropy, Interfacial Angles, Symmetry in Crystal Systems 1.2 Unit Cell, Seven Crystal Systems, Space Lattice and Bravais Lattices 1.3 Law of Rational Indices, Weiss indices, Miller Indices, X-Ray Diffraction-Bragg's Law, Derivation of Bragg's Equation, Representation of Planes. 1.4 Experimental Technique-Powder Method, X-Ray Diffraction Patterns of a Cubic System-Primitive, Body Centered and Face Centered Cubic Lattice	KI-K5	13	1-5
2.	Closed Packed Structures of Ionic Crystals 2.1 Closed Packed Structures- CCP and HCP, Percentage Void, Packing Efficiency, Radius Ratio Rule 2.2 Simple Structures: Types - AX (NaCl, ZnS, NiAs), AX ₂ (CaF ₂ , TiO ₂ , CdCl ₂ and CdI ₂) 2.3 Point Defects – Schottky and Frenkel Defects, Non-Stoichiometric Defects 2.4 Liquid Crystals – Types, Structures, Textures and Applications	K1-K5	13	1-5
3.	Electrical & Magnetic Properties of Atoms and Molecules 3.1 Electrical properties: Polarisation, Clausius-Mossotti equation, Debye equation, polarisability and frequency 3.2 Dipole moment and molecular polarisabilities and their measurements. 3.3 Magnetic properties: Magnetic permeability, magnetic susceptibility, Diamagnetism, Paramagnetism, Ferro and Anti-ferromagnetism	K1-K5	10	1-5
4.	Ionic Equilibria 4.1 Proton Transfer Equilibria-Bronsted Lowry Theory, Protonation and Deprotonation (pK _a , pK _b , pH, pOH, K _w and pK _w), Polyprotic Acids, Amphoteric Systems (H ₂ O) 4.2 Buffers: Acid, Basic and Single salt buffer, buffer capacity, buffer action, Derivation of Henderson-Hasselbach Equation 4.3 Hydrolysis of Salts (weak acid & strong base, weak base & strong acid, weak acid & weak base), Hydrolysis Constant, Relation between K _h , K _a (K _b), K _w and Degree of hydrolysis	K1-K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
5.	Solubility Equilibria 5.1 Solubility, Solubility Product, relation between molar solubility and solubility product of a sparingly soluble salt, Common Ion effect 5.2 Applications of solubility product in determination of solubility of sparingly soluble salts, predicting precipitation reactions, precipitation of soluble salts and in qualitative semi micro inorganic salt analysis	K1-K5	6	1-5

BOOKS FOR STUDY

Bajpai D. N. *Advanced Physical Chemistry*, New Delhi: S. Chand, 2021.

Atkins P. W. *Physical Chemistry*. Great Britain: Oxford University, 2016.

Puri B. R., Sharma L. R. and Pathania M. S. *Principles of Physical Chemistry*, Delhi: Vishal Publishing, 2018.

BOOKS FOR REFERENCE

Bahl A., Bahl B. S. and Tuli G. D. *Essentials of Physical Chemistry*, New Delhi: S. Chand, 2018.

Barrow G. M. *Physical Chemistry*. New York: McGraw Hill, 2008.

Smart L. E. and Moore E. A. *Solid State Chemistry: An Introduction*. Florida: CRC Press, 2012.

McQuarrie D. A. and Simon J. D. *Physical Chemistry: A Molecular Approach*, Delhi: Viva Books, 2019.

Moore W. J. *Physical Chemistry*. Chennai: Orient Longman, 2004.

Ball D. W. *Physical Chemistry*. India: Thomson Press, India 2007.

Castellan G. W. *Physical Chemistry*. 4th Ed. Chennai: Narosa Publishing, 2004.

WEB RESOURCES

<https://www.doitpoms.ac.uk>

<https://dictionary.iucr.org>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> • Three questions to be set • Two questions to be answered out of three • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> • One question to be set with either/or pattern • Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Model preparation

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> • Seven questions to be set • Six questions to be answered out of seven. • Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> • Five questions to be set • Four questions to be answered out of five • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> • Two questions to be set with either/or pattern • Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/PC33												
VI	Course Title: PHYSICAL CHEMISTRY - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	3	3	2	2	2
CO 2	3	3	3	2	2	2	2	1	3	3	2	2	3
CO 3	3	3	3	2	2	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	2	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	2	2	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

INORGANIC QUALITATIVE ANALYSIS PRACTICAL II

CODE: 23CH/MC/P332

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To enable understanding of solubility product and common ion effect of the ions present in the inorganic substance
- To impart the skills required to identify the acid and basic radicals present in the inorganic substance
- To enhance the skill required to identify the interfering radical and eliminate it using the appropriate procedure

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recollect the concepts of solubility product and common ion effect.	K1, K2
CO2	Differentiate between non-interfering and interfering acid radicals and identify the appropriate elimination procedure for the interfering radical.	K3
CO3	Apply the concepts of solubility product and common ion effect in separating the two acid and two basic radicals present in the given inorganic salt.	K4
CO4	Examine the characteristics of a given salt mixture through various chemical tests	K5
CO5	Analyse the given inorganic salt mixture, identify the acid and basic radicals present in the inorganic salt mixture and eliminate the interfering acid radical present	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	1.1 Principles and Techniques in Inorganic qualitative analysis of Acid and Basic Radicals: Solubility Product Principle, Common Ion Effect	K1-K3	3	1-2
2.	Reactions of interfering acid radicals and basic radicals 2.1 Use of organic and inorganic reagents in spot tests (Equations Relating to Reactions and Confirmatory Tests)	K1-K6	6	1-5
3.	Qualitative Analysis 3.1 Analysis of a salt mixture containing two cations and two anions (simple and interfering)	K1-K6	30	1-5

BOOKS FOR STUDY

Sathian J. *Semimicro Qualitative Analysis*. 2008.

Svehla G. and Sivasankar B. *Vogel's Qualitative Inorganic Analysis*. Delhi: Pearson Education, 2012.

Sundaram S., Krishnan P. and Raghavan P.S. *Practical Chemistry Part II*. Madras: Viswanathan S. Printers and Publishers, 2009.

Venkateswaran V., Veeraswamy R. and Kulandaivelu A. R. *Basic Principles of Practical Chemistry*. New Delhi: Sultan Chand & Sons, 2012.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 hours

Two to three questions in inorganic qualitative analysis	-	05 marks
General Procedure	-	06 marks
Acid radicals (2 x 10)	-	20 marks
Elimination procedure	-	04 marks
Basic radicals (2 x 7.5)	-	15 marks
Total	-	50 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Two to three questions in inorganic qualitative analysis	-	05 marks
General Procedure	-	06 marks
Acid radicals (2 x 10)	-	20 marks
Elimination procedure	-	04 marks
Basic radicals (2 x 7.5)	-	15 marks
Total	-	50 marks

Section	Cognitive Level	Marks	Pattern
Theoretical Principles and Viva	K1-K4	05	Subjective
Procedure	K1-K3	10	Subjective
Experiment	K1-K6	35	Subjective

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/P332												
III	Course Title: Inorganic Qualitative Analysis Practical II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	3	3	3	1	2	3
CO 2	3	3	3	3	3	2	3	3	3	3	1	2	3
CO 3	3	3	3	2	3	2	3	3	3	3	1	2	3
CO 4	3	3	3	2	3	2	3	3	3	3	1	2	3
CO 5	3	3	3	3	3	3	3	3	3	3	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

Allied Core offered by the Department of Chemistry to B.Sc. Plant Biology & Plant Biotechnology and B.Sc. Advanced Zoology & Biotechnology Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF BIOCHEMISTRY I

CODE: 23CH/AC/FB33

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To facilitate understanding of fundamental biochemical principles involving biological mechanisms
- To explain the significance of clinical haematological tests and enzymes in biochemical processes
- To enable understanding of carbohydrate metabolism
- To introduce the principles and methodologies involved in the digestion and absorption of carbohydrates

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the fundamentals of biochemistry, biomolecules and bioenergetics	K1
CO2	Relate blood buffers with the pH of blood, digestion and absorption of carbohydrates with carbohydrate metabolism	K2
CO3	Analyse the metabolism of glucose, hormone action and mechanism of enzyme action	K3
CO4	Evaluate free energy, enthalpy and entropy in a biochemical process, spontaneity of a biochemical reaction, glucose levels in blood through haematological tests and pH of blood	K4
CO5	Summarise the steps involved in different stages of carbohydrate metabolism, mechanism of enzyme action and coagulation of blood	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Biochemistry 1.1 Molecular Logic of Living Organisms 1.2 Water – Physical Properties and Hydrogen Bonding of Water-Solvent Properties of Water, Hydrophobic Interactions, the Ionic Product of Water, the pH Scale. Acid Base Indicators- Phenolphthalein and Methyl Orange	K1- K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
	1.3 Maintenance of pH of Blood, Bicarbonate Buffers, Acidosis and Alkalosis, Buffers and electrolytes in the body			
2.	Blood 2.1 Blood - Composition of Blood, Blood Coagulation – Mechanism. Haemophilia and Sickle Cell Anaemia 2.2 Clinical significance of RBC, WBC and Platelet Count in blood	K1- K5	5	1-5
3.	Bioenergetics 3.1 Enthalpy, Entropy, Free Energy, Standard Free Energy, spontaneous and non-spontaneous. Exergonic and Endergonic Reactions 3.2 High Energy Compounds ATP and ADP, Structural Basis for the Role of ATP as the currency of the cell	K1- K5	4	1-5
4.	Carbohydrates 4.1 Classification of Carbohydrates 4.2 Haworth's Structure and Reactions of Glucose, Fructose and Sucrose. Polysaccharides – Homopolysaccharides -Cellulose, Starch - Amylose and Amylopectin (Structural Elucidation not required) 4.3 Digestion of di and polysaccharides in the body, maintenance of glucose level in Blood-significance of HbA1c 4.4 Carbohydrate Metabolism - Metabolism of Glucose - Glycolysis, TCA Cycle (structures not required), Glycogenesis, Glycogenolysis, Gluconeogenesis. Oxidative phosphorylation and electron transport chain	K1- K5	15	1-5
5.	Enzymes 5.1 Definition of Enzymes, Coenzymes and Apoenzymes 5.2 Nomenclature and Classification of Enzymes 5.3 Enzyme Specificity - Factors affecting Enzyme Action 5.4 Mechanism of Enzyme Action - Michaelis- Menten Theory (No Derivation) – Fischer's lock and key model and Koshland's induced fit model	K1- K4	5	1-4

BOOKS FOR STUDY

Berry, A. K. *Textbook of Biochemistry*. New Delhi: Emkay, 2001.

Doraiswamy Y, Swaminathan G. and Nagamani, B. *Allied Biochemistry*. Chennai: Margham, 2015.

Sharma D. K. *Biochemistry*. Oxford: Alpha Science, 2010.

Satyanarayana U. *Biochemistry*, 2nd Ed. Kolkata: Books and Allied, 2005.

BOOKS FOR REFERENCE

Lehninger A. L. *Principles of Biochemistry*. New Delhi: CBS, 2006.

Stryer L, *Biochemistry*. New York: W.H. Freeman, 2007.

WEB RESOURCES

<http://www.hsph.harvard.edu/nutritionsource/what-should-you-eat/protein/>

<http://e.hormone.tulane.edu/learning/types-of-hormones.html>

<https://oli.cmu.edu/courses/biochemistry-open-free/>

<https://www.futurelearn.com/courses/biochemistry>

<https://pubs.acs.org/journal/jceda8>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FB33												
III	Course Title: FUNDAMENTALS OF BIOCHEMISTRY - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**Allied Core offered by the Department of Chemistry for
B.Sc. Physics Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF CHEMISTRY I

CODE: 23CH/AC/FC33

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To impart introductory knowledge of organic compounds and concepts in organic chemistry
- To facilitate learning of the fundamentals of polymer chemistry
- To enable understanding the important structural aspects and functions of amino acids, proteins and carbohydrates
- To instil knowledge about the kinetics of zero, first and second order reactions and the effect of temperature on rates of reactions.
- To introduce the basics of acid-base theories and buffer solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify various organic functional groups, label compounds, define terms related to polymers, biomolecules, kinetics and ionic equilibrium	K1
CO2	compare types of organic intermediates and reactions, indicate the uses of polymers and study of ionic equilibria, discuss structures of biomolecules and summarise the kinetics and equilibrium conditions of reactions	K2
CO3	classify molecules and calculate various physical parameters of compounds	K3
CO4	predict functionality of different organic molecules, biomolecules and polymers, differentiate between various reactions using kinetics and analyse the strength of acids and bases	K4
CO5	evaluate and estimate physical parameters to study reaction mechanisms of various molecules	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Organic Chemistry 1.1 Identification of common functional groups in Organic compounds (alcohols, amines, alkyl halides, aldehydes, ketones, carboxylic acids, esters and amides) 1.2 Nature of bond fission- homolytic and heterolytic, types of reagents - nucleophile and electrophile (examples)	K1-K4	6	1-4

UNIT	CONTENT	CL	Hrs	CO
	1.3 Types of intermediates - carbocations, carbanions and free radicals - definition, structure and examples 1.4 Substitution, Addition and Elimination Reactions- definition with an example each			
2.	Polymer Chemistry 2.1 Classification of Polymers, types of polymerisations - addition (cationic, anionic and free radical mechanism) and condensation 2.2 Thermosetting and Thermoplastics –Definition with examples, Structure and Applications of Polyethylene, Polyvinylchloride, Nylon 66 and Bakelite, Natural and synthetic rubber, vulcanisation of rubber 2.3 Biodegradable and non-biodegradable polymers	K1-K5	10	1-5
3.	Chemistry of Biomolecules 3.1 Amino acids – Classification based on R groups, Zwitter ion and isoelectric point- definition and illustrations, chemical reactions of amino acids- Ninhydrin test 3.2 Polypeptides-Introduction and nomenclature, Proteins-Structure (primary, secondary, tertiary and quaternary) and functions, Denaturation and Renaturation of proteins 3.3 Carbohydrates- Classification, structure of Glucose and Fructose –Fischer and Haworth projections, Structure and uses of Maltose and Sucrose, Starch-structure and reaction with iodine, Uses of starch and cellulose 3.4 Analysis for carbohydrates- Molisch, Barfoed, Tollen's and Fehling's tests, preparation of Osazone derivative	K1-K5	10	1-5
4.	Chemical Kinetics 4.1 Rate of reaction, Order and Molecularity 4.2 Zero order, First order, Pseudo-unimolecular and Second order reactions. 4.3 Determination of order – Graphical, Half - life, Integrated rate equation and Ostwald's isolation methods 4.4 Energy of activation - Effect of temperature on reaction rates-Arrhenius equation	K1-K5	7	1-5

UNIT	CONTENT	CL	Hrs	CO
5.	Ionic Equilibrium 5.1 Acid-base concept - Arrhenius, Lowry Bronsted and Lewis Concepts 5.2 Strength of acids and bases- Dissociation constants of acids (K_a), bases (K_b) and water (K_w), pK_a , pK_b and pK_w 5.3 Definition of pH and pOH, significance of pH scale 5.4 Buffer solutions – Types, buffer action, Derivation and importance of Henderson- Hasselbach equation	K1-K5	6	1-5

BOOKS FOR STUDY

Puri B. R., Sharma L. R. and Pathania M. S. *Principles of Physical Chemistry*. New Delhi: Vishal, 2018.

Puri B. R., Sharma L. R. and Kalia K. C. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2017.

Jain M. K. and Sharma S. C., *Modern Organic Chemistry*. Punjab: Vishal Publishing & Co, 2020

Jain J. L., Jain S. and Jain N. *Fundamentals of Biochemistry*, New Delhi: Sultan Chand & Company Ltd, 2006.

Yesodha Doraiswamy, Swaminathan Geetha and V. Radhakrishnan, *Allied Biochemistry*, Chennai: Margham Publications, 2002.

BOOKS FOR REFERENCE

Furniss *et al.* *Vogel's Text Book of Practical Organic Chemistry*, London: ELBS, 2006. Morrison R. T., Boyd R. N and Bhattacharjee S. K. *Organic Chemistry*, 7th Ed. Noida: Pearson Education, 2012.

WEBSITES

<https://www2.chemistry.msu.edu>

<https://www.lkouniv.ac.in>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FC 33												
II	Course Title: FUNDAMENTALS OF CHEMISTRY - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	2	3	2	2	2	2
CO 2	3	3	2	2	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	2	2	2	3	1	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	1	3	3	3	2	2
CO 5	3	3	2	2	3	3	2	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

Allied Core offered by the Department of Chemistry for B.Sc. Physics, B.Sc. Plant Biology & Plant Biotechnology and B.Sc. Advanced Zoology & Biotechnology Degree Programmes

SYLLABUS

(Effective from the academic year 2023–2024)

BIOCHEMISTRY PRACTICAL I

CODE: 23CH/AC/P132

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To enable understanding of the principles of biochemistry through laboratory techniques
- To impart the skills required to perform various chemical reactions in a laboratory
- To instill understanding of the classification of biomolecules based on their structure and property
- To introduce the principles behind the techniques involved

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the procedure for the analysis of carbohydrates, amino acids and proteins.	K1, K2
CO2	identify various carbohydrates, amino acids and proteins based on their structure and property	K3
CO3	distinguish various carbohydrates, amino acids and proteins based on the structural characteristics	K4
CO4	perform chemical reactions in a laboratory according to standard procedure and safety precautions	K5
CO5	analyse a given organic compound qualitatively and identify carbohydrates, amino acids and proteins	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Qualitative Analysis of Carbohydrates 1.1 Reactions of Carbohydrates Glucose, Fructose, Maltose, Sucrose and Starch 1.2 Identification of Unknown Organic Compound	K1-K6	13	1-5
2.	Qualitative Analysis of Amino acids 2.1 Reactions of Amino Acids - Reactions of Tryptophan, Tyrosine, Arginine and Cysteine 2.2 Identification of Unknown Organic Compound	K1-K6	13	1-5

3.	Qualitative Analysis of Proteins 3.1 Reactions of Proteins - Reactions of Casein and Egg Albumin 3.2 Identification of Unknown Organic Compound	K1-K6	13	1-5
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BOOKS FOR STUDY

Swaminathan G. and George M. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 3 hours**

Analysis	-	50 marks
Preliminary reaction	-	15 marks
Confirmatory tests with all colour tests	-	30 marks
Final report	-	05 marks

End-Semester Examination: **Total Marks: 50** **Duration: 3 hours**

Analysis	-	50 marks
Preliminary reaction	-	15 marks
Confirmatory tests with all colour tests	-	30 marks
Final report	-	05 marks

Sections	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K4	10	Subjective
Experiment	K5-K6	40	Subjective

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CH/AC/P1 32												
III	Course Title: BIOCHEMISTRY PRACTICAL - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	2	1	3	2	2	2	2
CO 2	3	3	2	1	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	1	2	2	3	2	3	3	3	2	2
CO 4	3	3	2	1	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	1	3	3	2	1	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS FOR CHEMISTRY I

CODE:23PH/AC/PC33

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To impart basic knowledge on elasticity and other properties of matter.
- To train the students to acquire the basics of surface tension and viscosity.
- To enable the students to understand moment of inertia and the oscillation of a body.
- To familiarise the students on the wave nature of light.
- To illustrate the students to the concept of special theory of light.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic ideas of physical properties of different states of matter, motion of a rigid body, relativity and wave nature of light.	K1
CO2	understand the elastic nature of solids, surface tension, viscosity of liquids, oscillation of a rigid body, constant nature of velocity of light in free space and physical optics.	K2
CO3	apply the knowledge obtained to determine the bending moment, modulus of elasticity, coefficient of viscosity, surface tension, period of oscillation, transformation equation and wavelength.	K3
CO4	study the distinguishing characteristics of solid, liquid and light.	K4
CO5	impart analytical skills to solve problems related to properties of matter, liquids, relativity and wave nature of light.	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Properties of Matter 1.1 Elasticity: Moduli of elasticity – Poisson's ratio-Young's modulus – Bending of beams - Expression for bending moment - Depression at the loaded end of the cantilever - Depression and elevation at the mid-point of a loaded beam - Torsion in a wire – Torsional oscillations – Torque per unit twist- Expression for period.	K1-K5	6	1-5
2	Surface Tension and Viscosity 2.1 Introduction - Experimental determination of surface tension and interfacial surface tension by drop weight method –Variation of surface tension with temperature. 2.2 Viscosity - Streamline and turbulent flow – Critical velocity - Expression for critical velocity- Poiseuille's method for determining coefficient of viscosity of a liquid (Variable Pressure Head) - Variation of viscosity with temperature.	K1-K5	7	1-5
3	Mechanics 3.1 Dynamics: Moment of Inertia – Definition - Compound pendulum - Expression for the period of oscillation - Centre of suspension and Centre of oscillation – Minimum period of oscillation of a compound pendulum - Determination of 'G'.	K1-K5	6	1-5
4	Relativity 4.1 Newton's laws of motion and its limitations - Inertial frames of reference – Newtonian relativity – Galilean transformation equations. 4.2 Postulates of special theory of relativity - Lorentz transformation equations - Length contraction - Time dilation - Twin paradox and Meson paradox 4.3 Relativistic Momentum (no derivation) – Mass-Energy relation- Physical significance.	K1-K5	13	1-5
5	Optics 5.1 Interference: Introduction - Interference due to reflected light – Newton's rings – Measurements of wavelength - Air wedge – Determination of diameter of a thin wire by air wedge. Diffraction: Introduction - Fraunhofer diffraction - Transmission grating - Normal incidence – Determination of wavelength. 5.2 Polarisation: Introduction - Plane of polarization - Polarisation by refraction - Brewster's law - Polarization by reflection - Double refraction – Nicol prism – Nicol prism as a polarizer and analyser – Polaroids - Uses of polaroids	K1-K5	7	1-5

BOOKS FOR STUDY

Murugesan R., *Properties of Matter*, S. Chand and Company Pvt. Ltd., New Delhi, 2020.
Naranyanamurthi M, and Nagarathnam N., *Dynamics*, The National, Chennai, 1996.
Naranyanamurthi M, and Nagarathnam N., *Statics*, The National, Chennai, 1994.
Murugesan R., *Modern Physics*, 18th edition, S Chand, New Delhi, 2022.
Subrahmanyam N and Lal Brij, *Textbook of Optics*, 23rd Revised edition, Vikas, New Delhi, 2013.
Murugesan R, *Allied Physics*, S. Chand and Co, New Delhi, 2010.

BOOK FOR REFERENCE

Halliday, David and Robert Resnick. *Physics Vol I and II*. New Age, Chennai, 2010.

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 1 hour 30 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 × 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PC33												
III	Course Title: PHYSICS FOR CHEMISTRY I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	1	1	1	3	2	2	2	2
CO 2	3	3	2	1	3	1	1	1	3	3	2	1	2
CO 3	3	3	3	1	3	1	1	1	3	3	2	3	2
CO 4	3	3	3	1	3	1	1	1	3	2	2	1	2
CO 5	3	3	3	1	3	1	1	1	3	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Sc. DEGREE: BRANCH III- PHYSICS

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL I

CODE:23PH/AC/P132

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data.	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

Experiments	CL	Hrs	CO
1. Determination of 'g' - Compound Pendulum. 2. Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope 3. Young's Modulus 'E' by Uniform Bending-Scale and Telescope 4. Rigidity Modulus 'G' - Torsional pendulum 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7. Determination of resistance and Specific Resistance - Post Office Box 8. Characteristics of a Zener Diode 9. Verification of Newton's Law of Cooling for two liquids	K1-K5	39	1-5

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan V., and Balakrishnan R., *A Text Book of Practical Physics, Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test: Total Marks: 50 Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:**Total Marks: 50****Duration: 3 hours**

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P132												
III	Course Title: PHYSICS PRACTICAL I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

ORGANIC CHEMISTRY II

CODE: 23CH/MC/OC44

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To enable understanding of the structure and reactivity of important functional groups in organic chemistry
- To introduce the mechanisms of important name reactions
- To facilitate understanding of colour and dye chemistry
- To enhance knowledge of the synthetic applications of the nitro, amino and active methylene groups

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall IUPAC nomenclature, preparation and structures of organic compounds containing important functional groups	K1
CO2	Compare various functional groups based on their structure and properties and explain the theories of dyes	K2
CO3	Illustrate the preparation and properties of organic functional groups and dyes	K3
CO4	Analyse important name reactions and discuss their mechanisms	K4
CO5	Predict the products of given organic reactions with mechanism	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Alcohols, Phenols and Ethers 1.1 Aliphatic Alcohols: Reactions with reference to C-OH Bond Cleavage and O-H Bond Cleavage. Di and Trihydric Alcohols- Action of HIO_4 and Uses. 1.2 Phenols: Nomenclature, acidity of phenols- Effects of substituents – Comparison of Acidity with Alcohols. Hydrogen Bonding. 1.3 Reactions: Acid Character, Ether Formation, Ester Formation, Reactions involving Benzene Ring- Nitration, Sulphonation, Halogenation, Nitrosation, Friedel-Crafts reaction, Coupling reactions, Kolbe's and Riemer-Tiemann reactions 1.4 Reactions of Ethers and Epoxides. Cleavage of Ether Linkages by HI.	K1- K5	13	1-5

2.	Carboxylic Acids and their Derivatives 2.1 Nomenclature and Classification of Aliphatic and Aromatic monocarboxylic Acids, Preparation and Reactions. Acidity (Effect of Substituents on Acidity) and Salt formation, mechanism of Reduction and substitution in Alkyl or Aryl Group 2.2 Preparation and Properties of Unsaturated Carboxylic acids - Acrylic, Crotonic and Cinnamic acids. Preparation and Properties of Dicarboxylic Acids - Oxalic, Malonic, Succinic, Glutaric, Adipic and Phthalic Acids 2.3 Action of heat on α , β , γ - Hydroxy and Amino carboxylic acids. Stereospecific addition reaction of maleic and fumaric acids 2.4 Preparation and Reactions of Acid Chlorides, Acid Anhydrides, Amides and Esters. Acid and Alkaline Hydrolysis of Esters. Trans-Esterification	K1- K5	15	1-5
3.	Nitro and Amino Compounds 3.1 Aliphatic and Aromatic Nitro Compounds- Classification, general properties and preparation by nitration. Nitroalkanes - Tautomerism and reactions - Distinction from alkyl nitrite 3.2 Aromatic Nitro Compounds - reduction of Nitrobenzene in acidic, neutral and alkaline media and electrolytic reduction 3.3 Aliphatic and Aromatic Amines - Preparation, Reactions - Basicity of Amines, Effect of substituents on basicity of amines. Separation of mixture of amines by Hinsberg and Hofmann method 3.4 Distinguishing primary, secondary and tertiary amines. Ascent and descent of series in aliphatic amines 3.5 Diazonium Salts - Preparation and reactions - Replacement reactions (Sandmeyer, Gattermann and Gomberg reactions) and Coupling Reactions	K1- K5	15	1-5
4.	Synthesis involving Active Methylene Group 4.1 Malonic, Acetoacetic and Cyanoacetic Ester: Characteristic reactions of active methylene group and synthetic applications 4.2 Diazomethane and Diazoacetic Ester: Preparation, Structure and Synthetic Applications	K1- K5	12	1-5
5.	Colours and Dyes 5.1 Complementary Colours and Photochemistry of Vision 5.2 Theories of Dyes, Classification of Dyes based on chemical structure and application 5.3 Preparation and uses of Azo Dye - Methyl Orange and Bismarck Brown; Triphenyl Methane Dye -Malachite Green, Para Rosaniline and Crystal Violet; Phthalein Dye - Phenolphthalein and Fluorescein; Vat Dye – Indigo; Anthraquinone Dye - Alizarin	K1- K5	10	1-5

BOOKS FOR STUDY

Jain M. K. and Sharma S. C. *Modern Organic Chemistry*, Vishal Publishing, 2015.
Morrison R. T., Boyd R. N. and Bhattacharjee S. K. *Organic Chemistry*, Noida: Pearson Education India, 2016.
Ghosh S. K. *Advanced General Organic Chemistry: A Modern Approach: Vol I and II*. 3rd Ed. Kolkata: Central Book Agency, 2010.

BOOKS FOR REFERENCE

Smith M. B. *March's Advanced Organic Chemistry: Reactions, Mechanisms and Structure*. New Delhi: Wiley India, 2015.
Carey F. A. and Sundberg R. J. *Advanced Organic Chemistry, Part A: Structure and Mechanisms*. 5th Ed., New Delhi: Springer, 2008.
Ahluwalia V. K. *Organic Reaction Mechanisms*. New Delhi: Narosa Publishing, 2011.
Finar I. L. *Organic Chemistry Vol I and II*. London: ELBS, 2002.
Bruice P. Y. *Organic Chemistry*. 8th Ed., New Delhi: Pearson Education India, 2016.
Clayden J., Greeves N. and Warren S. *Organic Chemistry*. Oxford: Oxford University Press, 2012.

WEB RESOURCES

<https://archive.nptel.ac.in/courses/104/106/104106131/>
<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/intro1.htm>
<http://www.chemguide.co.uk/orgmenu.html>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component: **Total Marks: 50**
 Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: **Total Marks: 100** **Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	15 × 1 = 15 (15 MCQs)
B	K2	15	15 × 1 = 15 (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	6 × 5 = 30 marks • Seven questions to be set • Six questions to be answered out of seven. • Questions can be set with or without subdivisions
D	K4/K4	20	4 × 5 = 20 marks • Five questions to be set • Four questions to be answered out of five • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	2 × 10 = 20 marks • Two questions to be set with either/or pattern • Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
 to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/OC44												
IV	Course Title: ORGANIC CHEMISTRY II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	3	3	3	3	3	1	2	3
CO 2	3	3	3	2	3	3	3	3	3	3	1	2	3
CO 3	3	3	3	2	3	3	3	3	3	3	1	2	3
CO 4	3	3	3	3	3	3	3	3	3	3	2	2	3
CO 5	3	3	3	3	3	3	3	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

ORGANIC CHEMISTRY PRACTICAL I

CODE: 23CH/MC/P442

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To impart the skills required to perform chemical reactions in a laboratory
- To instil understanding of the classification of organic compounds based on their structure and property
- To enhance the skills required to perform confirmatory tests and prepare derivatives for various functional groups

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the procedure for the analysis of functional groups present in organic compounds	K1, K2
CO2	identify various functional groups based on their structure and property	K3
CO3	distinguish various functional groups based on the structural characteristics	K4
CO4	perform chemical reactions (microscale approach) in a laboratory according to standard procedure and safety precautions	K5
CO5	analyse a given organic compound qualitatively and determine the functional group present with its characteristics	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Theoretical Principles 1.1 Theoretic principles of the reactions of organic compounds containing simple functional groups	K1-K3	5	1-2
2.	Analysis of Organic compounds not containing Nitrogen 2.1 Qualitative analysis of unknown organic compounds containing simple functional groups - Acids, Phenols, Carbohydrates, Aldehydes, Ketones and Esters. 2.2 Preparation of Derivative	K1-K6	17	1-5
3.	Analysis of Organic Compounds containing Nitrogen 3.1 Qualitative analysis of unknown organic compounds containing simple functional groups - Amines, Amides, Nitro compounds, Anilides, Halo compounds and Sulphur compounds (Thiourea). 3.2 Preparation of Derivative	K1-K6	17	1-5

BOOKS FOR STUDY

Sathian J. *Organic Chemistry Practical* – Lab Manual, 2010.

Vogel A. *Vogel's Textbook of Practical Organic Chemistry*. New Delhi: Pearson, 2011.

BOOKS FOR REFERENCE

Mann F. G. and Saunders B. C. *Practical Organic Chemistry*. 4th Ed., New Delhi: Pearson Education India, 2009.

Furniss B. S., Hannaford A. J., Smith P. W. G. and Tatchell A. R. *Practical Organic Chemistry*. 5th Ed., New Delhi: Pearson Education India, 2012.

Ahluwalia V. K., and Aggarwal, R. and Alluwalla V. K. *Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis*. Hyderabad: Sangam Books Ltd., 2000.

Ahluwalia V. K. and Dhingra S. *Comprehensive Practical Organic Chemistry: Qualitative Analysis*. Hyderabad: University Press, 2000.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 hours

Two-three questions related to Theory of Analysis of Organic Compounds	-	05 marks
Aliphatic/Aromatic	-	06 marks
Saturated/Unsaturated	-	06 marks
Special Elements	-	08 marks
General Procedure	-	10 marks
Derivative	-	05 marks
Functional Group test and relevant confirmatory tests	-	08 marks
Report	-	02 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Two-three questions related to Theory of Analysis of Organic Compounds	-	05 marks
Aliphatic/Aromatic	-	06 marks
Saturated/Unsaturated	-	06 marks
Special Elements	-	08 marks
General Procedure	-	10 marks
Derivative	-	05 marks
Functional Group test and relevant confirmatory tests	-	08 marks
Report	-	02 marks

Section	Cognitive Level	Marks	Pattern
Theoretical Principles and Procedure	K1-K3	10	Subjective
Viva	K1-K5	05	Subjective
Experiment	K1-K6	35	Subjective

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/P442												
IV	Course Title: ORGANIC CHEMISTRY PRACTICAL I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	3	3	3	1	2	3
CO 2	3	3	3	3	3	2	3	3	3	3	1	2	3
CO 3	3	3	3	2	3	2	3	3	3	3	1	2	3
CO 4	3	3	3	2	3	2	3	3	3	3	1	2	3
CO 5	3	3	3	3	3	3	3	3	3	3	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

Allied Core Offered by the Department of Chemistry for B.Sc. Plant Biology and Plant Biotechnology and B.Sc. Advanced Zoology and Biotechnology Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF BIOCHEMISTRY II

CODE: 23CH/AC/FB43

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To provide an understanding of the biochemical importance of lipids, proteins, hormones and micronutrients
- To enable understanding of lipid and protein metabolisms
- To introduce the principles and methodologies involved in digestion and absorption of lipids and proteins

COs	DESCRIPTION	CL
CO1	recall the classification, structure and metabolism of lipids, proteins hormones and vitamins	K1
CO2	explain the use of biochemical techniques in the study of proteins, lipids, hormones, vitamins and micronutrients	K2
CO3	analyze the metabolisms involving lipids, proteins, hormones, vitamins and minerals	K3
CO4	evaluate mechanism of metabolism of protein, lipid and hormones using biochemical tools	K4
CO5	integrate the cause of a disease in human body and the metabolism	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Lipids 1.1 Classification of Lipids and Fats 1.2 Definitions and Significance of Iodine Value, Acid Value, Saponification Value, RM Value and Acetyl Value 1.3 Lipid Metabolism- Oxidation of β fatty acids, Biosynthesis of Fatty Acids, Ketone bodies and Ketosis. Digestion and Absorption of Lipids 1.4 Risk factor of HDL, LDL and total cholesterol in the body	K1- K5	12	1-5
2.	Proteins 2.1 Amino Acids – Classification based on R Groups 2.2 Chemical Reactions of amino acids - with ninhydrin, mineral acid, formaldehyde, FDNB and CO ₂ 2.3 Structure of Proteins - Peptide Bond, Primary, Secondary and Tertiary structures. 2.4 Classification of proteins based on shape, composition and solubility. Properties of proteins - denaturation,	K1- K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	amphoteric nature, ion binding capacity and solubility 2.5 Protein Metabolism - transamination, oxidative deamination and Urea Cycle. Digestion and absorption of proteins			
3.	Hormones 3.1 Definition, Classification of Hormones (Steroid and Non-Steroid Only) 3.2 Mechanism of Hormone Action 3.3 Functions of Insulin and Thyroxine. Clinical significance of TSH, T3 and T4	K1- K5	5	1-5
4.	Biochemistry and Nutrition 4.1 Vitamins (fat & water soluble)- sources, metabolic functions, deficiency diseases, daily requirements- vitamin A and vitamin C (Structure) 4.2 Principal elements- Calcium, Phosphorus, Magnesium, Sodium, Potassium, Chlorine, Sulfur- sources, function, recommended dietary allowance, deficiency - Calcium, Phosphorus- absorption and retention, product of Ca and P in serum. 4.3 Trace elements: Chromium, Selenium, Cobalt- sources, function, deficiencies	K1- K5	5	1-5
5.	Analytical techniques in Biochemistry 5.1 Centrifugation – Principle and applications of sedimentation and ultracentrifugation 5.2 Electrophoresis – Principle and applications of SDS-PAGE 5.3 Ultrafiltration – Principle and applications of Dialysis 5.4 Chromatography – Principle and applications of Thin layer (TLC) and High-Performance Liquid Chromatography (HPLC)	K1- K5	5	1-5

BOOKS FOR STUDY

Berry, A. K. *Textbook of Biochemistry*. New Delhi: Emkay, 2001.

Doraiswamy Y, Swaminathan G. and Nagamani, B. *Allied Biochemistry*. Chennai: Margham, 2015.

Sharma D. K. *Biochemistry*. Oxford: Alpha Science, 2010.

Satyanarayana U. *Biochemistry*, 2nd Ed. Kolkata: Books and Allied, 2005.

BOOKS FOR REFERENCE

Lehninger A. L. *Principles of Biochemistry*. New Delhi: CBS, 2006.

Stryer L, *Biochemistry*. New York: W.H. Freeman, 2007.

WEB RESOURCES

<http://www.hsph.harvard.edu/nutritionsource/what-should-you-eat/protein/>

<http://e.hormone.tulane.edu/learning/types-of-hormones.html>

<https://oli.cmu.edu/courses/biochemistry-open-free/>

<https://www.futurelearn.com/courses/biochemistry>

<https://edu.rsc.org/eic>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FB43												
IV	Course Title: FUNDAMENTALS OF BIOCHEMISTRY -II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

Allied Core offered by the Department of Chemistry for B.Sc. Plant Biology & Plant Biotechnology and B.Sc. Advanced Zoology & Biotechnology Degree Programmes

SYLLABUS

(Effective from the academic year 2023–2024)

BIOCHEMISTRY PRACTICAL II

CODE: 23CH/AC/P242

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To understand the principles of biochemistry chemistry through laboratory techniques
- To impart the skills required to perform various chemical reactions in a laboratory
- To instill understanding of the classification of organic compounds based on their structure and property
- To understanding of the principles behind the various techniques involved

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect the concepts of normality, equivalent weight, R_f value and Beer Lambert's Law	K1
CO2	differentiate between titrations, colorimetric and chromatographic techniques	K2
CO3	calculate the normality, equivalent weights and R_f value	K3
CO4	compare the reagents used in volumetric titration, colorimetric and chromatographic techniques	K4
CO5	estimate the amount of a given substance using volumetric analysis	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Volumetric Estimations 1.1 Principle and theory of Volumetric Analysis 1.2 Principle and theory of Chromatography and Beer-Lambert's law	K1-K3	3	1-3
2.	Estimations 2.1 Estimation of Oxalic Acid / Fe^{2+} (Permanganimetry) 2.2 Estimation of Glucose 2.3 Estimation of Glycine by Sorensen's Titration	K1-K6	30	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.4 Estimation of Ascorbic Acid 2.5 Estimation of Acid Value / Saponification Value / Iodine Value of Edible Oil 2.6 Estimation of Enzyme Catalase in Chow chow / Radish			
3.	Group Experiments 3.1 Estimation of Phosphorus by Colorimetry 3.2 Estimation of DNA/RNA by Colorimetry 3.3 Separation of Amino Acids by Paper Chromatography	K1-K4	6	1-4

BOOKS FOR REFERENCE

Sathian J. *Volumetric Estimations* Lab Manual. 2010.

Mendham J., Denney R. C., Barnes J. D., Thomas M. and Sivasankar B. *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson Education, 2009.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 Hours

Equations and Short Procedure	-	10 marks
Experiment	-	40 marks
Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5.0% error	-	20 marks
Above 5%	-	15 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Equations and Short Procedure	-	10 marks
Experiment	-	40 marks
Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5.0% error	-	20 marks
Above 5%	-	15 marks

Section	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K3	10	Subjective
Experiment	K4-K6	40	Subjective

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/P242												
IV	Course Title: BIOCHEMISTRY PRACTICAL II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	1	3	2	3	2	2
CO 2	3	3	2	2	2	2	2	1	3	3	3	2	2
CO 3	3	3	2	2	2	2	3	2	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	2	3	3	2	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

Allied Core offered by the Department of Chemistry for B.Sc. Physics Degree Programme

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF CHEMISTRY II

CODE: 23CH/AC/FC43

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To facilitate learning of various concentration terms and apply them for numerical calculations
- To enable comprehension of the basics of electrochemistry
- To introduce the importance of phase diagrams
- To provide fundamental knowledge of coordination complexes
- To instil understanding of the basics of thermoanalytical methods

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Define the terms prevalent in Mole Concept, Electrochemistry, Phase rule, Coordination Chemistry and Thermoanalytical methods	K1
CO2	Explain the importance of concentration terms, differentiate the types of electrochemical cells, electrodes, reactions and batteries, indicate phase changes in systems, describe the behavior of complexes and instrumentation of thermoanalytical techniques	K2
CO3	Calculate equivalent weights, number of moles, normality, molarity, molality, ppm and ppb, number of degrees of freedom, magnetic moment of complexes, sketch thermograms	K3
CO4	Analyse and categorise solutions and substances based on concentration terms, examine electrochemical behavior of different metals and their salts, outline the phases present in different systems, investigate varied structures of complexes and thermal behavior of compounds	K4
CO5	Propose preparation of solutions of varied concentrations, devise construction of electrochemical cells, reconstruct phase diagrams and formulate complexes	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Mole concept 1.1 Definition of mole and applications of mole concept in stoichiometry 1.2 Equivalent weight – calculation of equivalent weight of oxidants and reductants in redox reactions, acids and bases, molecular volume 1.3 Concentration terms used to express strength of solutions- Normality, Molarity, Mole fraction and Molality, ppm and ppb	K1-K5	7	1-5
2.	Electrochemistry 2.1 Definition of specific, equivalent & molar conductance, effect of dilution on Conductance 2.2 Ostwald dilution law, Kohlrausch's law – applications 2.3 Conductometric titration – principle and types 2.4 Electrochemical cells - definition, representation of cells and cell reactions, types of electrodes-standard hydrogen and calomel electrodes, Nernst equation- significance, standard electrode potential and its measurement, electrochemical series-applications 2.5 Commercial cells – Primary and Secondary cells, Fuel cells- Hydrogen-Oxygen, Batteries- Lead storage battery, Nickel-Cadmium battery	K1-K5	10	1-5
3.	Phase rule 3.1 Definitions - Phase, component and degree of freedom, Derivation of phase rule. 3.2 Application of phase rule to one component systems (water and carbon dioxide) 3.3 Two component systems: simple eutectic (Pb-Ag) and (Bi-Cd)	K1-K5	6	1-5
4.	Coordination Chemistry 4.1 Coordination complexes - definition, types of ligands, IUPAC nomenclature of simple mononuclear complexes 4.2 Isomerism – Structural - ionisation, linkage, ligand, coordination and hydrate isomerism. Stereoisomerism-geometrical and optical isomerism of four coordinated complexes. 4.3 Pauling theory (VBT) - geometry of complexes based on hybridization (coordination number 4 and 6) magnetic moment of complexes. 4.4 Biological coordination compounds - structural features (figurative representation only), functions of Haemoglobin and Vitamin B12	K1-K5	8	1-5

UNIT	CONTENT	CL	Hrs	CO
5.	Thermoanalytical Methods 5.1 TGA and DTA - Principle, Instrumentation, methods of obtaining Thermograms, factors affecting TGA/DTA, Thermal analysis of silver nitrate, calcium oxalate and calcium acetate 5.2 DSC - Principle, Instrumentation and applications.	K1-K5	8	1-5

BOOKS FOR STUDY

Puri B. R., Shama L. R. and Pathania M. S. *Principles of Physical Chemistry*. New Delhi: Vishal, 2020.

Puri B. R., Shama L. R. and Kalia C. I. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2018.

Bahl A. Bahl B. S. and Tuli J. D. *Essentials of Physical Chemistry*, New Delhi: S. Chand & Co., 2018.

Gopalan R. and Ramalinga V. *Concise Coordination Chemistry*, New Delhi: Vikas Publishing, 2011.

Gopalan R., Subramanian P. S. and Rengarajan K. *Elements of Analytical Chemistry*. S. Chand, 2007.

BOOKS FOR REFERENCE

Barrow G. M. *Physical Chemistry* 5th Ed. Noida: McGraw Hill Education, 2008.

Skoog D., West D., Holler J. and Crouch S. *Fundamentals of Analytical Chemistry*, 9th Ed. Boston: Cengage, 2013.

WEBSITES

<https://ocw.mit.edu>

<https://www.2chemistry.msu.edu>

<https://www.chemtube3d.com>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> • Three questions to be set • Two questions to be answered out of three • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> • One question to be set with either/or pattern • Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> • Seven questions to be set • Six questions to be answered out of seven. • Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> • Five questions to be set • Four questions to be answered out of five • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> • Two questions to be set with either/or pattern • Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FC43												
IV	Course Title: FUNDAMENTALS OF CHEMISTRY - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	2	3	2	2	2	2
CO 2	3	3	2	2	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	2	2	2	3	1	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	1	3	3	3	2	2
CO 5	3	3	2	2	3	3	2	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Allied Core Offered by the Department of Chemistry for
B.Sc. Physics Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

GENERAL CHEMISTRY PRACTICAL

CODE: 23CH/AC/P342

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To enable understanding of the principles and theories associated with different experiments
- To impart the skills required to estimate varied parameters and concentrations of substances by experiments and volumetric analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the principles of different experiments and volumetric estimations	K1
CO2	distinguish between the various parameters studied during the conduction of the experiments, compare the types of volumetric estimations carried out	K2
CO3	calculate rate constant and concentrations of substances	K3
CO4	predict the direction of the experiments conducted, practice the skills acquired while doing the experiments	K4
CO5	prepare different solutions to test experimentally, estimate the weight of substances used, validate and verify the results	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Experiments and Volumetric Estimations 1.1 Principle and theory of varied Physical Chemistry Experiments and Volumetric Estimations	K1-K4	5	1-4
2.	Phase Equilibria and Kinetics (Group Experiments) 2.1 Kinetics Study of Acid Hydrolysis of an Ester 2.2 Determination of Molecular Weight by Rast Method Conductometry and Potentiometry (Group Experiments) 2.3 Determination of Strength of Weak Acid by Conductometry	K1-K6	17	1-5

	2.4 Determination of Fe^{2+} by Potentiometry using Potassium Dichromate			
3.	Volumetric Estimations 3.1 Estimation of Oxalic Acid (Permanganimetry) 3.2 Estimation of Magnesium (Complexometry) 3.3 Estimation of Ferrous Ion (Permanganimetry) 3.4 Estimation of Glycine (Sorensen's method)	K1-K6	17	1-5

BOOKS FOR STUDY

Venkateswaran V., Veeraswamy R. and Kulandaivelu A. R. *Basic Principles of Practical Chemistry*. New Delhi: Sultan Chand & Sons, 2012.

Sundaram S., Krishnan P. and Raghavan P.S. *Practical Chemistry Part II*. Madras:

Viswanathan S. Printers and Publishers, 2009.

Swaminathan G. and George M. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, (2010).

BOOK FOR REFERENCE

Vogel, A.I. *A Text Book of Quantitative Inorganic Analysis Including Elementary Instrumental Analysis*. London: ELBS, 1989.

Mendham J., Denney R. C., Barnes J. D., Thomas M. and Sivasankar B. *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson Education, 2009.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 Hours

Equations and Short Procedure	-	10 marks
Experiment	-	40 marks
Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5.0% error	-	20 marks
Above 5%	-	15 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Equations and Short Procedure	-	10 marks
Experiment	-	40 marks
Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5.0% error	-	20 marks
Above 5%	-	15 marks

Section	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K4	10	Subjective
Experiment	K5-K6	40	Subjective

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23CH/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group discussions
Group presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from academic year 2023-2024)

PHYSICS FOR CHEMISTRY II

CODE:23PH/AC/PC43

CREDITS:3

LTP:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To impart basic knowledge on the principles of Physics in electricity, magnetism and electronics.
- To familiarize students with interaction of light waves through LASER, MASER and fibre optics.
- To expose to the concept of Boolean algebra, k map and operational amplifiers.
- To guide the students to understand the algebraic operations and its implementations in digital circuits.
- To facilitate the students to appreciate the significance of physics in day-to-day life.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

Cos	Description	CL
CO1	recall the theoretical and experimental background of electricity and magnetism and electronics.	K1
CO2	understand the concepts of electricity and magnetism, LASER, characteristics of optical fibre and the working of digital circuits.	K2
CO3	apply the theoretical concepts and appreciate its significance in the related fields.	K3
CO4	evaluate important parameters in the field of electricity, magnetism, fibre optics and to analyse digital circuits.	K4
CO5	develop problem solving skills by applying the theory pertaining to different field of physics.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Electricity 1.1 Coulomb's Law of inverse squares - Flux of electric field - Gauss's law – Application of Gauss's law - To determine field of a point charge, spherical charge distribution, infinite line charge distribution and cylindrical charge distribution. 1.2 Conservative nature of electrostatic field – Electric field – Electric potential – Potential at a point due to point charge - Relation between potential and field strength. Capacitance: Principle - Capacitance of a spherical plate capacitor.	K1- K5	8	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Magnetism 2.1 Magnetic field - Force on a charge in a magnetic field - Force on a charge in an electromagnetic field (Lorentz Force) – Biot-Savart law- Maxwell's electromagnetic equations (no derivations) - Physical significance of the equations. 2.2 Torque on a current loop - Force on a current carrying conductor in a magnetic field – Moving coil Ballistic Galvanometer - Figure of merit of Ballistic Galvanometer for charge and current sensitivity.	K1- K5	7	1-5
3	Properties of Magnetic Materials 3.1 Magnetization - Relation between three electric vectors B, H and M - Magnetic susceptibility - Relation between relative permeability and susceptibility- Magnetic properties of materials - Dia, para and ferro - Electron theory of magnetism. 3.2 Hysteresis - Magnetometer method of drawing hysteresis curve (Horizontal Model) - Energy loss – Retentivity - Coercivity - Uses of hysteresis curves.	K1- K5	7	1-5
4	Modern Physics 4.1 MASER: Introduction - Description and working of Ammonia MASER – Applications. LASER : Spontaneous and stimulated emission- – Population inversion, pumping and active system– Carbon dioxide LASER - Uses of LASER. 4.2 Holography: Principles – Recording of holograms – Reconstruction of hologram – Applications. Fibre Optics: Principles – Structure and classification – The Numerical aperture – Applications.	K1- K5	9	1-5
5	Electronics 5.1 Introduction to Amplifiers - Operational Amplifier - Ideal Op - Amp - CMRR - Inverting and non-inverting Op- Amp – Summing - Difference - Integrator and differentiator Op - Amp. 5.2 Boolean Algebra- De Morgan's Theorem – Verification. Algebraic simplification – Implementation of Boolean algebra into circuits.	K1- K5	8	1-5

BOOKS FOR STUDY

R. Murugesan, *Electricity and Magnetism*, S.Chand and Co. Pvt.Ltd, New Delhi, 2017.
 Mehta V.K., *Principles of Electronics*, S.Chand and Co, Pvt. Ltd, New Delhi, 2014.
 Murugesan.R. *Modern Physics*, S.Chand and Co. Pvt. Ltd, New Delhi, 2013.
 Murugesan R. and Kiruthiga Sivaprasath, *Optics and Spectroscopy*, S. Chand and Co, Pvt. Ltd. 7th revised edition, NewDelhi, 2010.
 Gaur R.K., Gupta S.L., *Engineering Physics*, Dhanpat Rai, New Delhi, 2022.

BOOKS FOR REFERENCE

Haliday, David and Robert Resnick. *Physics Vol. II*. New Age, Chennai, 1995.

Kakani S.L. and Bhandari K.C., *A Text Book of Optics*, Sultan Chand, New Delhi, 2002. Laud B.B., *Lasers and Non – Linear Optic*, Wiley Eastern, New Delhi, 1991.

Subrahmanyam N. and Lal Brij., *A Text Book of Electricity and Magnetism*, Agra: RatanPrakash, 1994.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PC43												
IV	Course Title: PHYSICS FOR CHEMISTRY II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	2	1	1	1	3	1	2	1
CO 2	3	3	2	2	2	2	1	1	2	2	2	2	2
CO 3	3	3	3	2	2	2	1	1	1	3	1	2	1
CO 4	3	3	3	2	3	3	1	1	1	3	2	2	1
CO 5	3	3	3	2	2	2	1	1	1	2	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

B.Sc. DEGREE: BRANCH III – PHYSICS

SYLLABUS

(Effective from academic year 2023-2024)

PHYSICS PRACTICAL II

CODE:23PH/AC/P242

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data.	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

EXPERIMENTS	CL	Hrs	CO
1. Rigidity Modulus 'G' by Static Torsion 2. Determination of Radius of Curvature of a Lens - Newton's Rings 3. Grating – Normal Incidence - Determination of Wavelengths (λ) of Prominent lines of mercury spectrum - Spectrometer 4. Determination of Specific Heat of a Liquid – Joule's Calorimeter – Applying Half Time Correction 5. Ammeter Calibration (Low Range) - Potentiometer 6. OPAMP- Inverting and Non Inverting Amplifier 7. Specific Heat Capacity of a Solid – Method of Mixtures 8. Determination of Specific Resistance - Carey Foster's bridge 9. Coefficient of Viscosity – Poiseuille's Method	K1-K5	39	1-5

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan V., and Balakrishnan R., *A Text Book of Practical Physics, Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:**Total Marks: 50****Duration: 3 hours**

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P242												
IV	Course Title: PHYSICS PRACTICAL II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV- CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

ORGANIC CHEMISTRY III

CODE: 23CH/MC/OC54

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To enhance knowledge of heterocyclic compounds and their application as intermediates of industrial importance
- To enable understanding of functional groups and chemoselective reactions
- To introduce the mechanisms involved in various rearrangements and organic syntheses
- To interpret the pattern of reactivity, mechanism and the ability to analyse the products of organic reactions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

CO	DESCRIPTION	CL
CO1	Recall the fundamentals of organic chemistry to identify the structures, preparation and reactions of organic compounds.	K1
CO2	Illustrate the structure and reactions of heterocyclic compounds, carbohydrates, natural products, molecular rearrangement with examples and protection of functional groups.	K2
CO3	Distinguish between the properties of heterocyclic compounds, carbohydrates, natural products, reaction mechanism and protection of functional groups.	K3
CO4	Classify and synthesise heterocyclic compounds, carbohydrates, natural products, molecular rearrangements and interconversion of functional groups.	K4
CO5	Predict the product of the reaction mechanism and elucidate the structures of natural products and biomolecules.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Heterocyclic Compounds 1.1 Classification, Preparation of Furan, Pyrrole, Thiophene and Pyridine. Reactions - Electrophilic and Nucleophilic Substitutions, Oxidation and Reduction reactions. 1.2 Condensed Ring Systems- Indole, Quinoline, Isoquinoline - Comparison of Reactions. Preparation of Quinoline by s Synthesis and Isoquinoline by Bischler-Napieralsky Synthesis. Mechanism of Electrophilic	K1-K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	and Nucleophilic substitutions, oxidation and reduction reactions. Relationship between Indole, Isatin and Indigo Substituents			
2.	Carbohydrates 2.1 Classification by various methods. Explanation of Diastereomer, Enantiomer, Anomer, Epimer, Building of Carbohydrates from D-Glyceraldehyde, D and L Sugars 2.2 Monosaccharides - HIO ₄ Oxidation, Mechanism of mutarotation, osazone formation. Haworth structure, structural elucidation of Glucose and Fructose, Determination of configuration and ring size. Interconversion of Glucose and 2.3 Fructose. Ascending and Descending the Sugar Series Disaccharides -Formation of Glycosidic Bond: H Structure of Sucrose, Maltose, Lactose. Difference between Maltose and Cellobiose. Polysaccharides-Structure and Reactions of Starch and Cellulose. Applications of Cellulose- acetate and xanthate	K1-K5	15	1-5
3.	Natural Products 3.1 Occurrence and Extraction of Terpenoids, Carotenoids, Steroids and Alkaloids in nature 3.2 Alkaloids- Definition and Classification, General Properties, Determination of the chemical constitution of the alkaloids, functional group analysis, estimation of groups- OH, NH ₂ and OCH ₃ , degradation and synthesis. Structural Elucidation of Piperine, Nicotine 3.3 Terpenoids- Classification, Isoprene Rule, General Properties, Structure Determination of the following Monoterpenoids Citral, α -Terpeneol and Camphor.	K1-K5	18	1-5
4.	Molecular Rearrangements 4.1 Classification - Anionotropic, Cationotropic, Free Radical, Inter and Intramolecular rearrangements 4.2 Pinacol-Pinacolone, Beckmann, Hoffmann, Curtius, Lossen, Schmidt, Wolff and Benzilic acid rearrangements (mechanism, evidence for intermediate formation - migratory aptitude) 4.3 Claisen and Cope (Sigmatropic rearrangement), Fries rearrangement (evidence for intramolecular nature and allylic carbon attachment)	K1-K5	10	1-5
5.	Functional Group interconversion and Designing Organic Synthesis 5.1 Protection of Functional Groups Need for and methods of protection of NH ₂ , -OH, >C=O, >C=C and -COOH Groups	K1-K5	10	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	5.2 Functional Group Modifications by Reduction, Oxidation, Addition, Elimination, Displacement and Addition-Elimination Processes			

BOOKS FOR STUDY

Agarwal O. P. *Chemistry of Organic Natural Products Vol 1 and 2*. Meerut: Krishna Prakashan Media, 2015.

Morrison R. T., Boyd R. N. and Bhattacharjee S. K. *Organic Chemistry*. Noida, Pearson Education, 2010.

Jain M. K. and Sharma S. C. *Modern Organic Chemistry*. 3rd Ed. Delhi: Vishal Publishing, 2020.

Ghosh S. K. *Advanced General Organic Chemistry (A Modern Approach)* (Set I & II), 3rd Ed. Kolkata: New Central Book Agency, 2010.

Tewari K. S. and Vishnoi N. K. *A Text Book of Organic Chemistry*, 4th Ed. Kolkata: Vikas Publishing 2017.

BOOKS FOR REFERENCE

Smith M. B. and March J. *March's Advanced Organic Chemistry Reactions, Mechanisms, and Structure*. Delhi: Wiley India, 2007

Ahluwalia V. K. *Organic Reaction Mechanisms*. New Delhi: Narosa Publishing, 2011.

Chatwal G. *Chemistry of Organic Natural Products Vol 1 and 2*, Chennai: Himalaya Publishing, 2008.

Finar I. L. *Organic Chemistry Vol. I & II*. London: ELBS, 2002.

Clayden J., Greeves N. and Warren S. *Organic Chemistry*. Noida: Oxford University Press, 2012.

Bruice P. Y. *Organic Chemistry*. 6th Ed. Delhi: Pearson, 2010.

Brückner R. *Organic Mechanisms - Reactions, Stereochemistry and Synthesis*. New York: Springer, 2010.

WEB RESOURCES

<https://nptel.ac.in/>

<http://www.organic-chemistry.org/>

<http://www.chemguide.co.uk/orgmenu.html>

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/intro1.html>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (5 MCQs)
B	K2	5	$5 \times 1 = 5$ (Answer in a line or two or Fill in the blanks)
C	K3/K3	12	$2 \times 6 = 12$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three.• Questions can be set with or without subdivisions
D	K4/K4	16	$2 \times 8 = 16$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	12	$1 \times 12 = 12$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component:

Total Marks: 50

Seminar / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (10 MCQs)
B	K2	10	$10 \times 1 = 10$ (Answer in a line or two or Fill in the blanks)
C	K3/K3	24	$4 \times 6 = 24$ marks <ul style="list-style-type: none">• Five questions to be set• Four questions to be answered out of five.• Questions can be set with or without subdivisions
D	K4/K4	32	$4 \times 8 = 32$ marks <ul style="list-style-type: none">• Five questions to be set• Four questions to be answered out of five• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	24	$2 \times 12 = 24$ marks <ul style="list-style-type: none">• Two questions to be set with either/or pattern• Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/OC54												
	Course Title: Organic Chemistry III												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	2	1	1	1	3	2	2	3	1
CO 2	3	3	3	3	2	1	2	1	3	3	3	3	1
CO 3	3	3	2	2	2	1	2	1	3	3	3	3	1
CO 4	3	3	2	2	3	1	1	1	3	2	2	3	1
CO 5	3	3	2	2	3	1	1	1	3	2	2	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV- CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

PHYSICAL CHEMISTRY-II

CODE: 23CH/MC/PC54

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To enable understanding of basic concepts in Physical Chemistry
- To provide an understanding of Gibbs phase rule and phase equilibria
- To facilitate understanding of the theory and technique of the separation of miscible and immiscible liquids
- To enlighten on the theory of colligative properties

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Outline the fundamentals of thermodynamics and phase equilibria.	K1
CO2	Illustrate the isothermal and adiabatic changes for ideal gases, real gases, change in enthalpy of chemical reaction	K2
CO3	Apply the second law of thermodynamics to thermal cycles and the principle of phase equilibria to one and two component systems	K3
CO4	Analyse the concept of entropy as a function of state variables, Kirchoff's equation, Maxwell's relations, Clausius-Clapeyron Equation to phase systems and ideal and non-ideal solutions	K4
CO5	Evaluate the Joule-Thomson Effect, spontaneity of process in terms of ΔS , entropy of mixing, and investigate the applications of Carnot's Theorem, Maxwell's relations, standard free energies, Gibbs-Helmholtz equation, Gibbs phase rule for one and two component systems and colligative properties	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Thermodynamics 1.1 Types of Systems, Extensive and Intensive Properties, Different Forms of Energy. First Law – Statements, Internal Energy and Enthalpy, State and Path Functions and their characteristics 1.2 Isothermal and Adiabatic Changes for ideal gases - Work Done, Internal Energy Changes, Thermodynamics of Real Gases obeying van der Waal's Equation of State, Isothermal and Adiabatic Changes for Real Gases- Work	K1- K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	<p>Done, Internal Energy Changes, Difference between Heat Capacities at Constant Pressure and Volume of ideal and real gases</p> <p>1.3 Joule- Thomson Effect, Inversion Temperature</p> <p>1.4 Thermochemistry- Change in enthalpy of Chemical reaction, Endothermic and Exothermic reactions, Kirchhoff's equation (Variation of enthalpy with temperature), Enthalpy of formation, Enthalpy of combustion and bond energy, resonance energy.</p>			
2.	<p>Second Law of Thermodynamics</p> <p>2.1 Need for Second Law, Different Forms of stating the Law, Carnot's Cycle and Carnot's Theorem, Thermodynamic Scale of Temperature</p> <p>2.2 Concept of Entropy, S as a Function of T&P, P&V and T&V. Entropy Changes in a Phase change (Trouton's Rule), Entropy Change for Irreversible Processes (Clausius Inequality) Comparison of ΔS for Reversible and Irreversible Processes, Criteria for Spontaneity of Process in Terms of ΔS, Entropy of Mixing and Entropy as a Measure of Disorder, Third Law Statement</p> <p>2.3 Helmholtz and Gibb's Energies, Maximum and Net Work done, Variation in A & G in Terms of P, V and T, Condition for Equilibrium and Spontaneity, Maxwell's Relations, Standard Free Energies, Gibbs-Helmholtz Equation and its Application in Chemistry</p> <p>2.4 Chemical Equilibria: Law of Mass Action, Equilibrium Constant and Free Energy, Significance of K, Application of Law of Mass Action to Homogenous systems, Le Chatelier's Principle, van't Hoff Equation (Reaction Isochore) and van't Hoff's Reaction Isotherm.</p>	K1- K5	15	1-5
3.	<p>Introduction to Phase Equilibria</p> <p>3.1 Phase, Component, Degree of freedom, Gibbs Phase rule, Thermodynamic derivation of Phase rule, Phase diagram of One component system – water, sulphur and carbon dioxide, application of Clausius-Clapeyron Equation to phase systems</p> <p>3.2 Measures of Concentration- Molality and Mole Fraction, Partial Molal Properties, Concept of Chemical Potential, Gibbs-Duhem Equation</p> <p>3.3 Raoult's Law (with conditions for deviations) and Henry's Law, Real Solutions, Concept of Activity and Activity Coefficient</p>	K1- K5	12	1-5
4.	<p>Separation of Liquid Mixtures using Phase Equilibria</p> <p>4.1 Phase Diagrams of Binary liquids -Mixtures of Volatile Liquids (Fractional Distillation, Low and High Boiling Azeotrope), Lever Rule and fractional distillation</p>	K1- K5	9	1-5

UNIT	CONTENT	CL	Hrs	CO
	4.2 Distillation of immiscible liquids - Steam Distillation, Solubility of partially miscible liquids- Phase Diagram (Nitrobenzene & Hexane and Water & Triethylamine) 4.3 Nernst Distribution Law, Conditions, Derivation, Applications			
5.	Phase Equilibria in Real Systems 5.1 Two-component systems- Cooling curves, Simple eutectic system (Pb-Ag), Phase diagram of compound with congruent melting point (FeCl ₃ -water system) 5.2 Phase diagram of compounds with incongruent melting points (sodium sulphate water system) efflorescence, deliquescence 5.3 Colligative Properties – Depression in Freezing Point, Elevation in Boiling Point and Osmosis van't Hoff Factor, Abnormal Molar Mass, Degree of Dissociation and Association	K1- K5	14	1-5

BOOKS FOR STUDY

Rajaram J. Kuriakose J. C. *Chemical Thermodynamics - Classical, Statistical and Irreversible Thermodynamics*. New Delhi: Pearson, 2013.

Atkins P. and de Paula J. *Physical Chemistry* 10th Ed. Oxford: Oxford University Press, 2016.

BOOKS FOR REFERENCE

Puri B. R., Shama L. R. and Pathania M. S. *Principles of Physical Chemistry*. New Delhi: Vishal, 2020.

Bahl A. Bahl B. S. and Tuli J. D. *Essentials of Physical Chemistry*, New Delhi: S. Chand & Co., 2018.

McQuarrie D. A. and Simon J. D. *Physical Chemistry: A Molecular Approach*. Melville: University Science Books, 2013.

Zundhal S. S. *Chemistry Concepts and Applications*. Delhi: Cengage India, 2011.

Ball D. W. *Physical Chemistry*. Delhi: Cengage India, 2012.

Mortimer R. G. *Physical Chemistry* 3rd Ed. Noida: Elsevier, 2009.

Levine I. N. *Physical Chemistry* 6th Ed. Noida: Tata McGraw-Hill, 2011.

Metz C. R. *Physical Chemistry* 2nd Ed. Noida: Tata McGraw-Hill, 2009.

Klotz I. M. *Introduction to Chemical Thermodynamics*. New York: W. A. Benjamin, 2000.

Rastogi R. P. and R. R. Misra. *An Introduction to Chemical Thermodynamics*. New Delhi: Vikas, 1990.

Barrow, G. M. *Physical Chemistry*. USA: McGraw Hill, 2008.

Glasstone S. *Thermodynamics*. Noida: Tata McGraw-Hill, 2000.

WEB RESOURCES

<http://www.chem.uci.edu>

http://serc.carleton.edu/research_education/equilibria/phaserule.html

<http://www.chem1.com/acad/webtext/thermeq/>

<http://www.jce.acs.in>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none">• Seven questions to be set• Six questions to be answered out of seven.• Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none">• Five questions to be set• Four questions to be answered out of five• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none">• Two questions to be set with either/or pattern• Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/PC54												
	Course Title: PHYSICAL CHEMISTRY-II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	3	2	2	3	2	2	3	2
CO 2	3	3	3	2	2	3	2	2	3	3	2	3	2
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 4	3	3	3	2	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

BIOCHEMISTRY PRACTICAL

CODE: 23CH/MC/P551

CREDITS: 1

L T P: 0 0 2

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To enable students to perform simple qualitative tests to analyse amino acids and proteins
- To instill understanding of the principle involved in titrimetric and spectrophotometric estimations of biomolecules
- To enhance the skill required to use separation techniques like paper and thin layer chromatography

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the chemistry of amino acids and proteins and the principle of volumetric estimations of biomolecules and chromatography.	K1
CO2	distinguish amino acids through their structural characteristics and apply the appropriate formulae for quantitative estimations of biomolecules	K2
CO3	perform chemical reactions under laboratory conditions using safety precautions and determine the unknown concentration of a sample with a calibration graph.	K3
CO4	select a suitable method for qualitative and quantitative analysis.	K4
CO5	evaluate qualitatively the given amino acid/protein and estimate quantitatively the given biomolecule	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Qualitative Analysis of Amino acids and proteins 1.1 Reactions of Amino Acids - Reactions of Tryptophan, Tyrosine, Arginine and Cysteine. 1.2 Reactions of Proteins - Reactions of Casein and Egg Albumin 1.3 Identification of unknown amino acid /protein	K1-K6	8	1-5

UNIT	CONTENT	CL	Hrs	CO
2.	Quantitative Analysis 2.1 Theory and principle of volumetric estimations 2.2 Estimation of Glycine by Sorensen's formalin method 2.3 Estimation of Glucose by Benedicts method 2.4 Estimation of Ascorbic acid by Dye method 2.5 Estimation of Catalase activity 2.6 Estimation of Vitamin A/Protein by colorimetry 2.7 Estimation of DNA/RNA by Spectrophotometry	K1-K6	14	1-5
3.	Chromatography (Demonstration only) 3.1 Separation of amino acids by paper chromatography 3.2 Separation of o- and p-nitrophenol by thin layer chromatography (TLC)/column chromatography	K1-K2	4	1-2

BOOKS FOR STUDY

Swaminathan G. and George M. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, (2010).

BOOKS FOR REFERENCE

Vogel A. I. *Quantitative Organic Analysis, Part 3*, Delhi: Pearson India, 2012.
Joy P. P., Surya S. and Aswathy C., *Laboratory Manual of Biochemistry*. Kerala Agricultural University, 2015.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 hours

Two – Three questions related to Theory of qualitative and quantitative Analysis - 05 marks

Qualitative Analysis (15 marks)

Preliminary reaction - 05 marks

Confirmatory tests with all colour reaction and report - 10 marks

Quantitative analysis (30 marks)

Equation, short procedure and calibration graph - 05 marks
Experiment 25 marks

Up to 2% error - 25 marks

2.1 – 3.0% error - 20 marks

3.1 – 4.0% error - 15 marks

4.1 – 5.0% error - 12 marks

Above 5% - 10 marks

End-Semester Examination:**Total Marks: 50****Duration: 3 hours**

Two – Three questions related to Theory of qualitative and quantitative Analysis - 05 marks

Qualitative Analysis (15 marks)

Preliminary reaction - 05 marks

Confirmatory tests with all colour reaction and report - 10 marks

Quantitative analysis (30 marks)

Equation, short procedure and calibration graph - 05 marks

Experiment 25 marks

Up to 2% error - 25 marks

2.1 – 3.0% error - 20 marks

3.1 – 4.0% error - 15 marks

4.1 – 5.0% error - 12 marks

Above 5% - 10 marks

Section	Cognitive Level	Marks	Pattern
Theoretical Principles, Procedure and Viva	K1-K2	10	Subjective
Qualitative Analysis (amino acid and protein)	K3-K6	15	Subjective
Quantitative Analysis (Estimations)	K3-K6	25	Subjective

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/P551												
V	Course Title: BIOCHEMISTRY PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	2	1	3	2	3	2	1
CO 2	3	3	2	1	2	2	2	1	3	3	3	2	1
CO 3	3	3	2	1	2	2	3	2	3	3	3	2	1
CO 4	3	3	2	1	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	1	3	3	2	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

PHYSICAL CHEMISTRY PRACTICAL – I

CODE: 23CH/MC/P652

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To impart the skills required to handle instruments
- To enhance the skills required to determine the heat of solution and stability constant of complexes
- To give an understanding of colligative properties and use them to calculate the molecular weight of a given solute
- To construct phase diagrams to determine UCST of partially miscible liquids

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect the theory and principles of physical chemistry experiments	K1
CO2	demonstrate the theoretical concepts in physical chemistry through experiments	K2
CO3	calculate the heat of solution, molecular weight of solute, UCST, pK_a of weak acids and stability constants from experimental data	K3
CO4	analyse the experimental data with that of theoretical values	K4
CO5	estimate the heat of solution, molecular weight of given solid, UCST, pK_a of acids, stability constant of complexes	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	1.1 Theory and principles behind the experiments 1.2 To prepare and standardise various solutions	K1-K3	3	1-3
2.	Heat of Solution, Phase Equilibria and distribution law 2.1 Determine the heat of solution of oxalic acid by solubility method 2.2 Determination of Molecular Weight by Rast Method (alpha naphthol/ naphthalene /biphenyl /p-dichlorobenzene/acetanilide/m-dinitrobenzene as solute/solvent) 2.3 Construction of the Phase Diagram of Phenol - Water system and determination of Upper Critical Solution Temperature (UCST), Critical Solution Composition (CSC) and the composition of the given mixture	K1-K6	20	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.4 To study the effect of added impurity (NaCl / Succinic Acid) on UCST and determine the given percentage composition 2.5 To determination of equilibrium constant of the reaction, $I_2 + I^- = I_3^-$ using the given distribution coefficient			
3.	pH metry, Conductometry and Spectrophotometry 3.1 Determination of strength and pK_a of a monobasic acid (Acetic acid) 3.2 Determination of strength and pK_a dibasic acid (oxalic acid) 3.3 Verification of Ostwald's dilution law (benzoic acid) 3.4 Spectrophotometric study of iron salicylate (Jobs method)	K1-K6	16	1-5

BOOKS FOR STUDY

Venkateswaran V. Veeraswamy R. and Kulandaivelu A. R. *Basic Principles of Practical Chemistry*, Sultan Chand and Sons, 1997

BOOKS FOR REFERENCE

Viswanathan, B and Raghavan, P.S. *Practical Physical Chemistry*. New Delhi: Viva Books, 2005.

Vogel A. I. *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2000.

Mendhan J. *Vogel's Textbook of Quantitative Chemical Analysis*, Pearson 2009.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 Hours

Two- Three questions on Principles involved in experiments (viva)	- 05 marks
Theoretical principles and nature of graph	- 05 marks
Tabulation, calculation and graph	- 15 marks
Experimental Result	- 25 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Two- Three questions on Principles involved in experiments (viva)	- 05 marks
Theoretical principles and nature of graph	- 05 marks
Tabulation, calculation and graph	- 15 marks
Experimental Result	- 25 marks

Section	Cognitive Level	Marks	Pattern
Theoretical Principles and nature of graph	K1-K3	5	Subjective
Viva	K1-K5	5	Subjective
Tabulation, calculation and graph	K1-K6	15	Subjective
Experiment Result	K1-K6	25	Subjective

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/P652												
V	Course Title: PHYSICAL CHEMISTRY PRACTICAL - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Interdisciplinary Core offered by the Departments of Chemistry and Botany for
B.Sc. Chemistry and B.Sc. Plant Biology and Plant Biotechnology Degree
Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

BIOANALYTICAL TECHNIQUES

CODE: 23ID/IC/BA55

CREDITS: 5

L T P: 5 1 0

TOTAL HOURS: 78

OBJECTIVES OF THE COURSE

- To enable understanding of the principles of microscopy, centrifugation and separation methods
- To facilitate understanding of extraction, separation and purification methods
- To introduce the principles of spectroscopic and spectrochemical techniques

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamentals of microscopy, centrifugation and electrophoresis, separation methods and spectroscopic techniques	K1
CO2	illustrate the knowledge of microscopy, centrifugation and electrophoresis, separation methods and spectroscopic techniques	K2
CO3	analyse microscopic images and the separation method from yield of precipitate and spectroscopic data	K3
CO4	evaluate the texture and amount of the substance in the sample by gravimetry and spectroscopic techniques	K4
CO5	integrate the results from microscopy, separation methods and spectroscopic data of the sample material	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Microscopy: Principle, Construction and Application 1.1 Light microscopes – Compound, Phase Contrast, Differential Interference Contrast and Confocal Microscopes. 1.2 Preparation of Specimen for Light Microscopy – Paraffin Techniques – Fixatives: FAA, Carnoy's, Dehydration and Infiltration, Embedding and Sectioning (Paraffin Blocks), Staining and Mounting. 1.3 Electron Microscopes – TEM, specimen preparation for TEM. 1.4 Maceration and leaf clearing	K1-K5	16	1-5

UNIT	CONTENT	CL	Hrs	CO
2.	Centrifugation and Electrophoresis 2.1 Principle, types and applications of Centrifuge. 2.2 Density gradient and Differential Centrifugation. 2.3 Electrophoresis: Principle, Techniques and applications of Agarose gel electrophoresis, Polyacrylamide gel electrophoresis 2.4 Immunoelectrophoresis	K1-K5	15	1-5
3.	Separation Techniques 3.1 Separation by solvent extraction: Nernst distribution law, Principle of extraction by chemically active solvents, Soxhlet extraction, Factors influencing the Extraction Efficiency. 3.2 Gravimetric analysis: Separation by Precipitation-Nucleation, Crystal Growth, Solubility Product, Principle, Factors affecting Solubility, Purity of Precipitates, Co-precipitation and Post Precipitation methods of Filtering, Drying - Ignition & Incineration of Precipitate. 3.3 Chromatography - GC and HPLC - Principle, instrumentation and applications - quality control, air pollution, food analysis comparison of GC and HPLC	K1-K5	16	1-5
4.	Spectroscopic Techniques and Spectrochemical Methods 4.1 Introduction to Spectroscopy, Beer-Lambert's law statement and deviation; UV - Visible-instrumentation and applications - estimation of Mn 4.2 Nephelometry and Turbidimetry - Principle, Instrumentation and Applications - determination of TDS of water sample 4.3 Principle, Instrumentation and Applications - Atomic absorption Spectroscopy (estimation of Ca), Flame photometry (estimation of K/Na) and Fluorimetry (estimation of Fluorescein)	K1-K5	15	1-5
5.	Practical Demonstration Experiments Botany <ul style="list-style-type: none"> Techniques of maceration and leaf clearing Preparation of permanent slide using plant specimen Isolation of chloroplast by differential centrifugation Separation of DNA using Agarose gel electrophoresis Chemistry <ul style="list-style-type: none"> Verification of Beer Lamberts law (KMnO_4) Separation of organic compounds - benzoic acid and benzaldehyde in ether Estimation of Ca - AAS Estimation of fluorescein - Fluorimetry Gravimetric estimation of Ba as BaCrO_4 	K1-K5	16	1-5

BOOKS FOR STUDY

Gopalan R., Subramanian P. S. and Rengarajan K. *Elements of Analytical Chemistry*. New Delhi: Sultan Chand and Sons, 2004.

Skoog D. A., West D. M., Holler F. J. and Crouch S. R. *Fundamentals of Analytical Chemistry*. Noida: Cengage, 2022.

Ruzin S. E. *Plant Microtechnique and Microscopy*. USA: Oxford University Press, 1999.

Jensen W. A. *Botanical Histochemistry*. New Delhi: Agri Horti Press, 2015.

Mendhan J. *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson Education India, 2009.

BOOKS FOR REFERENCE

Coulter B. D. and Liebler D. C. *Introduction to Proteomics: Tools for New Biology*, New Jersey: Humana, 2002.

Landers J. P. *Handbook of Capillary and Microchip Electrophoresis and Associated Microtechniques*, Boca Raton: CRC, 2008.

Gerald K. *Cell and Molecular Biology: Concepts and Experiments*. New Jersey: John Wiley and Sons, 2013.

Skoog D. A., Holler J. F. and Crouch S. R. *Principles of Instrumental Analysis*. New Delhi: Cengage India, 2020.

Usharani, S. *Analytical Chemistry. Techniques and Instrumentation*. Chennai: Lakshmi Publications, 2021.

Christian G. D. *Analytical Chemistry*. 6th Ed. New Delhi: Wiley, 2007.

WEB RESOURCES

<https://www.wiredchemist.com/chemistry/instructional/laboratory-tutorials/gravimetric-analysis>

<https://www.atascientific.com.au/spectrometry/https://chemcollective.org/chem/ubc/exp01/>

https://researchrepository.griffith.edu.au/bitstream/handle/10072/34561/62679_1.pdf

<https://edu.rsc.org/eic>

<https://pubs.acs.org/journal/jceda8>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes****Botany: 25 marks and Chemistry: 25 marks (to be written in separate answer scripts)**

Section	Cognitive Level	Marks	Pattern
A	K1	4	$4 \times 1 = 4$ (4 MCQs)
B	K2	3	$3 \times 1 = 3$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	6	$2 \times 3 = 6$ marks <ul style="list-style-type: none"> • Three questions to be set • Two questions to be answered out of three. • Questions can be set with or without subdivisions
D	K4/K4	6	$2 \times 3 = 6$ marks <ul style="list-style-type: none"> • Three questions to be set • Two questions to be answered out of three • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	6	$1 \times 6 = 6$ marks <ul style="list-style-type: none"> • One question to be set with either/or pattern • Questions can be set with or without subdivisions

Other Component:**Total Marks: 50****Botany: 25 marks and Chemistry: 25 marks**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100**Duration: 3 hours****Botany: 50 marks and Chemistry: 50 marks**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> • Three questions to be set • Two questions to be answered out of three • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> • One question to be set with either/or pattern • Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23IC/ID/BA55												
V	Course Title: BIOANALYTICAL CHEMISTRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

INORGANIC CHEMISTRY – II

CODE: 23CH/MC/IC64

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To enable understanding of transition metal ions in biological systems
- To promote a comprehensive understanding of the theories of bonding in coordination compounds.
- To introduce concepts related to electronic and magnetic properties of transition metal complexes
- To facilitate understanding of the structure and bonding of organometallic compounds
- To provide an insight into the chemistry of inner transition elements

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the basic concepts of coordination chemistry, transition, inner transition elements and organometallic compounds.	K1
CO2	Explain the theories of bonding, structure, electronic and magnetic properties and stability of coordination compounds	K2
CO3	Describe the chemistry of Lanthanides and Actinides and the importance of coordination compounds in qualitative and quantitative analysis.	K3
CO4	Analyse the role of metal ions in living systems and their significance in diagnosis and medicinal therapy	K4
CO5	Evaluate the characteristics of transition and inner transition elements and assess the applications of organometallic compounds	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Transition Elements 1.1 General group trends with special reference to electronic configuration, colour, variable valency, magnetic and catalytic properties, ability to form complexes. Stability of various oxidation states and EMF (Latimer & Ebsworth diagrams) Difference between the first, second and third transition series	K1- K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	<p>1.2 Ti, V, Cr, Mn Groups, Fe, Co, Ni Groups - A Comparative Study with respect to Oxidation States, Oxides and Complexes</p> <p>1.3 Biological Importance of Transition Metals- Biological Roles of Mo, Fe, Co, Cu, Zn in Proteins, Vitamins and Enzymes. Heme proteins-hemoglobin and myoglobin-general structures and functions. Biological role of Cytochromes and carbonic anhydrase.</p>			
2	<p>Chemistry of Coordination Compounds</p> <p>2.1 Introduction – Ligands- Monodentate, Bidentate and Polydentate ligands, Coordination Sphere, Coordination Number, Chelate Effect, Nomenclature of Coordination Compounds Isomerism – Linkage, Ionization, Hydrate, Coordination, Coordination Position isomerism. Geometrical and Optical Isomerism of 4 and 6 – Coordinate Complexes.</p>	K1- K5	10	1-5
3	<p>Theories and Applications of Coordination Compounds</p> <p>3.1 Sidgwick- Effective Atomic Number Rule (EAN), 18 Electron Rule and stability, Valence Bond Theory (VBT)- Hybridization, Geometry and Magnetic Properties of Coordination Compounds, Drawbacks of VBT</p> <p>3.2 Crystal Field Theory - Crystal Field Splitting in Octahedral, Tetrahedral and Square Planar Complexes. Qualitative crystal field splitting diagrams, high- and low-spin complexes, Factors affecting magnitude of Crystal Field Splitting, Calculation of CFSE. Spectrochemical series. Jahn Teller Effect.</p> <p>Applications of Coordination Compounds in Qualitative and Quantitative Analyses Potassium Ferrocyanide, Potassium Ferricyanide, Alizarin, Ferriox, DMG, Oxine, Cupferron and EDTA</p>	K1- K5	20	1-5
4	<p>Inner Transition Elements</p> <p>4.1 Lanthanides – Lanthanide Series, their position in the Periodic Table, Properties of Lanthanides with respect to electronic configuration, oxidation states, colour, spectral and magnetic properties</p> <p>4.2 Lanthanide Contraction and its consequences. Separation of Lanthanides - solvent extraction and Ion Exchange</p> <p>4.3 Actinides – Actinide Series, Position in the Periodic Table, Properties of Actinides with respect to electronic configuration, oxidation states, colour, spectral and magnetic properties. Actinide Contraction and its Consequences. Comparison between Lanthanides and Actinides</p> <p>4.4 Extraction of Thorium from Monazite and Uranium from Pitch Blende</p>	K1- K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Organometallic Compounds 5.1 Metal Carbonyls – Nomenclature, 16- and 18-electron rule. Preparation, Properties and Structures of Ni and Fe Carbonyls 5.2 Preparation and Structures of Metal Alkyls and Aryls of Li, Al and Ti. Structure of Metal Alkene Complexes –Ziese’s salt 5.3 Ferrocene - Preparation and reactions (acetylation, alkylation, metallation, Mannich Condensation), Structure and Aromaticity - Comparison of aromaticity and reactivity with that of benzene (No MO treatment)	K1- K5	10	1-5

BOOKS FOR STUDY

Gopalan R. and Ramalingam V. *Concise Coordination Chemistry*. New Delhi: Vikas, 2001.
 Puri B. R., Shama L. R. and Kalia C. I. *Principles of Inorganic Chemistry*. New Delhi: Milestone, 2018.
 Kumar A. *Coordination Chemistry* 6th Ed. New Delhi: Aaryush Education, 2020.
 Lee J. D. *Concise Inorganic Chemistry*. New Delhi: Oxford University Press, 2018.
 Banerjee D. *Coordination Chemistry* 3rd Ed. Chennai: Asian Books, 2009.

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Atkins P. W., Armstrong F., Rourke J., Weller M. and Overton T. *Inorganic Chemistry*. Oxford: Oxford University Press, 2010.
 Cotton F. A. and Wilkinson G. *Advanced Inorganic Chemistry*. New Delhi: Wiley Eastern, 2008.
 Huheey J. E. and Keiter E. A. *Principles of Structure and Reactivity*. New Delhi: Pearson, India, 2011.
 Miessler G. L. and Tarr D. A. *Inorganic Chemistry* 4th Ed. New Delhi: Pearson Education, 2010.
 Crabtree R. H. *The Organometallic Chemistry of the Transition Metals*. New York: John Wiley, 2000.
 Spessard G. O. and Miessler G. L. *Organometallic Chemistry*. New Jersey: Oxford University Press, 2015.

WEB RESOURCES

<https://ocw.mit.edu/courses/5-112-principles-of-chemical-science-fall-2005/resources/lecture-32-coordination-complexes-and-ligands/>
<https://global.oup.com/uk/orc/chemistry/ichem6e/student/weblinks/ch07/>
<https://nptel.ac.in/courses/104105033>
<https://chemistrywithwiley.com/f-block-elements/>
<https://www.geeksforgeeks.org/nomenclature-of-coordination-compounds/>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Model preparation

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/IC64												
VI	Course Title: INORGANIC CHEMISTRY -II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	3	3	2	2	2
CO 2	3	3	3	2	2	2	2	1	3	3	2	2	3
CO 3	3	3	3	2	2	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	2	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	2	2	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

PHYSICAL CHEMISTRY-III

CODE: 23CH/MC/PC64

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To instil understanding of the concepts of electrochemistry, chemical kinetics, catalysis and surface chemistry
- To facilitate prediction of the spontaneity of an electrochemical reaction from its thermodynamic parameters, order of a reaction and type of adsorption isotherm from experimental data
- To enhance critical thinking skills through solving numerical problems in electrochemistry, chemical kinetics and surface chemistry

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the fundamentals of electrochemistry, chemical kinetics, catalysis and surface chemistry	K1
CO2	Solve numerical problems in electrochemistry, chemical kinetics, catalysis and surface chemistry.	K2
CO3	Analyze the order of a reaction, type of adsorption and spontaneity of an electrochemical from given data.	K3
CO4	Evaluate the rate constant of a reaction with and without catalyst, cell potential, spontaneous cell from electrochemical series	K4
CO5	Estimate the potential and thermodynamic parameters of an electrochemical cell, adsorption constants from adsorption isotherm data, thermodynamic parameters, order of a reaction and a possible mechanism for a chemical reaction	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Electrochemistry I 1.1 Migration of Ions, Conductivity, Ostwald's Dilution Law, Variation of Conductance with Dilution, Types of Conductometric titration, Kohlrausch's Law, Ionic Mobility, Transport Number and Ionic Conductance 1.2 Transport Number - Determination by Hittorf's and Moving Boundary Methods 1.3 Debye Hückel Theory of Strong Electrolytes, Debye-Falkenhagen effect, Wien effect 1.4 Activity Coefficient, Mean Activity Coefficient and Ionic Strength	K1- K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
2.	Electrochemistry II 2.1 Concept of Electrochemical Cell, Galvanic Cell, Reversible and Irreversible Cells, Half Cells, Electrode and Cell Reactions, Nernst Single Electrode Potential, Cell Representation, Terminology and Conventions 2.2 Reversible Electrodes, Standard Hydrogen Electrode, Calomel Electrode, and Equation of EMF of Cells- Standard Electrode Potentials, Sign Convention, Electrochemical Series- Significance, Applications. Weston Cadmium Cell, EMF Measurement- Poggendorff's Compensation Method, Redox Potential 2.3 Applications of EMF Measurements: Application of Gibbs - Helmholtz Equation in the Calculation of ΔG , ΔH , ΔS , Temperature Coefficient of EMF of Galvanic Cells, Equilibrium Constant, Determination of pH using Glass electrode, Standard Hydrogen electrode and Quinhydrone Electrodes, Potentiometric Titration 2.4 Types of Reversible Cells, Concentration Cells with and without Transference. Liquid Junction Potential (cell reversible with respect to cations and anions) Derivation - Significance of Salt Bridge	K1- K5	15	1-5
3.	Chemical Kinetics 3.1 The Rate Equation, Order and Molecularity of Reactions with Examples, Derivation of Rate Constants for Zero, First, Second (Equimolar and Non-Equimolar Reactant Concentrations) and nth Order Reactions, Characteristics of Fractional Order Reactions, Half Life Time, Methods of Determination of Order of Reaction 3.2 Collisions and Encounters, Effect of Temperature on Reaction Rate, Concept of Activation Energy, Energy Barrier, Effect of Catalyst, Arrhenius Equation, Calculation of Arrhenius Parameters 3.3 Theories of Reaction Rates, Collision Theory of Bimolecular Reactions, Limitations of Collision Theory, Activated Complex Theory of Bimolecular Reactions, Transition State Theory –Thermodynamic Derivation of Rate Constant for TS, Eyring's Equation (No Derivation), Significance of ΔH^* , ΔG^* & ΔS 3.4 Photochemical Rate Law, Kinetics of Hydrogen-Chlorine, Jablonski diagram - Laws of photochemistry- Quantum Efficiency	K1- K5	16	1-5
4.	Catalysis 4.1 Catalytic Reactions - Characteristics, Homogenous	K1- K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	Catalysis - Acid-Base Catalysis, Kinetics of catalysis 4.2 Enzyme Catalysis - Michaelis – Menton Mechanism, Effect of Temperature, pH and substrate concentration on catalysis 4.3 Heterogenous Catalysis - Kinetics of Surface Reactions, Unimolecular and Bimolecular Surface Reactions, Effect of pH on Catalysed Reactions			
5.	Colloids and Surface Chemistry 5.1 Colloidal systems - classification, preparation and properties of colloids 5.2 Adsorption - Physisorption and Chemisorption-Types of Adsorption Isotherms, factors affecting adsorption 5.3 Freundlich Adsorption Isotherm - Limitations. Derivation of Langmuir Adsorption Isotherm; BET Adsorption Isotherm - Postulates and Equation. Determination of Surface Area	K1- K4	12	1-4

BOOKS FOR STUDY

Atkins P. W. *Elements of Physical Chemistry*. Oxford: Oxford University Press, 2013.
 Bajpai S. *Physical Chemistry*. New Delhi: Shobanlal Nagin Chand, 2006.
 Puri B. R., Shama L. R. and Pathania M. S. *Principles of Physical Chemistry*. New Delhi: Vishal, 2020.
 Bahl A., Bahl B. S. and Tuli G. D. *Essentials of Physical Chemistry*, Delhi: S. Chand, 2018.

BOOKS FOR REFERENCE

Atkins P. and de Paula J. *Physical Chemistry* 11th International Ed. Oxford: Oxford University Press, 2018.
 Mortimer R. G. *Physical Chemistry* 3rd Ed. Noida: Elsevier, 2009.
 McQuarrie D. A. and Simon J. D. *Physical Chemistry: A Molecular Approach*. Melville: University Science Books, 2013.
 Moore W. J. *Physical Chemistry*. Chennai: Orient Longman, 2004.
 Maron S. M. and Lando J. B. *Fundamentals of Physical Chemistry*. New York: Macmillan, 2004.
 Engel T. and Reid P. *Physical Chemistry* 3rd Ed. New Jersey: Prentice-Hall, 2012.
 Rogers D. W. *Concise Physical Chemistry*. New Jersey: Wiley 2010.
 Kotz J. C., Treichel P. M. and Townsend J. R. *General Chemistry*, New Delhi: Cengage Learning India, 2009.
 Adamson A. W. and Gast A. P. *Physical Chemistry of Surfaces*. Delhi: Wiley India, 2007

WEB RESOURCES

<https://www.chem1.com/acad/webtext/elchem>
<https://www.sas.upenn.edu/~mcnemar/apchem/ch14.pdf>
<https://archive.nptel.ac.in/courses/103/106/105106204/>
<https://pubs.acs.org/journal/jceda8>
<https://edu.rsc.org/eic>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/PC64												
VI	Course Title: PHYSICAL CHEMISTRY - III												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

SPECTROSCOPY

CODE: 23CH/MC/SP64

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To enable understanding of the basics of spectroscopy and its approach in characterisation of compounds
- To give an overview of NMR and Mass spectroscopic instrumentation techniques
- To facilitate interpretation of the spectra of molecules and structural elucidation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the principles, laws, approximations, rules and interaction of electromagnetic radiation with matter	K1
CO2	categorise molecular interactions by choosing suitable spectroscopic methods and interpreting the corresponding data	K2
CO3	apply the concepts of various spectroscopic techniques to solve problems related to structure, purity and concentration of chemicals.	K3
CO4	compare the spectral pattern and assess the parameters important for structure determinations.	K4
CO5	integrate spectral data and elucidate the structure of organic compounds	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate

UNIT	CONTENT	CL	Hrs	CO
1.	Rotational and Vibrational Spectroscopy 1.1 Electromagnetic spectrum and its interaction with matter, quantization of energy, electronic, vibrational and rotational energy levels, absorption and emission spectra. Boltzmann distribution (only formula) Born-Oppenheimer approximations. 1.2 Microwave Spectroscopy: Rotational Transitions, Theory of Rotational Spectroscopy, Rotation of Heteronuclear Diatomic Molecules, Selection Rule, Forbidden Transitions, Instrumentation. Calculation of Moment of Inertia and Reduced Mass 1.3 FTIR and Raman Spectroscopy: Principle, Hooke's law and harmonic oscillator, Normal degrees of freedom, modes of vibration- stretching and bending vibrations, vibrational frequencies,	K1- K5	20	1-5

UNIT	CONTENT	CL	Hrs	CO
	<p>instrumentation, cell sampling techniques, factors affecting the fundamental vibrational frequencies.</p> <p>1.4 Characteristic Frequencies of Functional Groups and Aromatic Compounds. IR Pattern of simple Organic Compounds</p> <p>1.5 Raman Spectroscopy: Rayleigh and Raman scattering, stokes and anti-stokes lines, (quantum treatment) comparison with IR, mutual exclusion principle.</p>			
2.	<p>UV Visible Spectroscopy</p> <p>2.1 Theory of Electronic Spectroscopy, Laws of Light Absorption- Beer-Lambert's Law- verification and its limitations. Definitions of chromophore, auxochrome, bathochromic and hypsochromic shifts. Franck Condon Principle, Types of electronic transitions Block Diagram of Double Beam Spectrophotometer</p> <p>2.2 Factors affecting UV Absorption, Solvent effect</p> <p>2.3 Calculation of λ_{max} of conjugated dienes and α, β-unsaturated aldehydes and ketones using Woodward – Fieser rules</p> <p>2.4 UV Spectra of simple Organic Compounds (Toluene and Cresol)</p>	K1- K5	10	1-5
3.	<p>Nuclear Magnetic Resonance Spectroscopy</p> <p>3.1 Theory of NMR Absorption- Magnetic Properties of Nuclei (Magnetic Moment, g Factor) and Theory of Nuclear Resonance. Larmor Precession Frequency, Resonance Condition and Relaxation Processes</p> <p>3.2 Standards Employed in NMR, Factors Affecting Chemical Shift – Electronegativity, Hybridization, Shielding and Deshielding, van der Waals Deshielding, H-Bonding, Diamagnetic and Paramagnetic Anisotropy</p> <p>3.3 Spin-Spin Coupling, (n+1) Rule and its Origin, Pascal's Diagram, Chemical Shift Values, spin-spin decoupling.</p> <p>3.4 Instrumentation and Sample Handling. Coupling constant, vicinal, geminal, allylic, long-range coupling, factors affecting the coupling constant</p> <p>3.5 Introduction to ^{13}C NMR Spectra, Spin Decoupling Techniques – Advantages</p> <p>3.6 NMR Spectra of Simple Organic Compounds – $\text{CH}_3\text{CH}_2\text{OH}$, $\text{C}_6\text{H}_5\text{CH}_3$, CH_3CHO, $\text{C}_6\text{H}_5\text{CH}_2\text{COOCH}_3$, $\text{C}_6\text{H}_5\text{OCH}_3$, $\text{C}_6\text{H}_5\text{CHO}$, $\text{C}_6\text{H}_5\text{CH}=\text{CH}_2$ and CH_3COOH</p>	K1- K5	20	1-5
4.	<p>Mass Spectrometry</p> <p>4.1 Basic Principle, Molecular Ion peak, Base Peak,</p>	K1- K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
	Nitrogen Rule, Isotope Peaks and Metastable Peaks, McLafferty Rearrangement, Retro Diel's Alder Rearrangement 4.2 Instrumentation, determination of molecular formula. Fragmentation Patterns of Simple Organic Compounds ($C_6H_5CH_2CH_3$, $CH_3CH_2CH_2CH_2CH_2OH$, C_6H_5OH , C_6H_5CHO , $CH_3COCH_2CH_3$, $C_6H_5OCH_3$, $C_6H_5COCH_3$, $CH_3CH_2CH_2COOH$)			
5.	Composite Spectral Problems 5.1 Structural elucidation of simple organic compounds by combined spectral techniques	K1- K5	5	1-5

BOOKS FOR STUDY

Banwell C. N. *Fundamentals of Molecular Spectroscopy*. 4th Ed. Noida: McGraw-Hill Education, 2017

Pavia D. L. Lampman G. M., Kriz G. A. and Vyvyan J. R. *Introduction to Spectroscopy*. 5th Ed. Boston: Cengage Learning, 2009.

Sharma Y. R. *Elementary Organic Spectroscopy Principles and Chemical Applications*. New Delhi: S. Chand, 2013.

Sathyanarayana D. N. *Electronic Absorption Spectroscopy and Related Techniques*. 2nd Ed. Chennai: University Press, 2001.

Kalsi P. S. *Spectroscopy of Organic Compounds*. 8th Ed. Chennai: New Age International Publishers, 2020.

BOOKS FOR REFERENCE

Williams D. H. and Fleming I. *Spectroscopic Methods in Organic Chemistry*. Noida: Tata McGraw-Hill, 2005.

Kemp W. *Organic Spectroscopy*. Chennai: Macmillan, 2007.

Sathyanarayana D. N. *Vibrational Spectroscopy*. Chennai: New Age International Publishers, 2007.

Mohan J. *Organic Spectroscopy: Principles & Applications*. Chennai: Narosa Publishing, 2009.

Sathyanarayana D. N. *Introduction to Magnetic Resonance Spectroscopy*. 3rd Ed. Delhi: Dream Tech Press, 2020.

Silverstein R. M., Webster F. X., Kiemle D. J. and Bryce D. L. *Spectroscopic Identification of Organic Compounds*. 8th Ed. New Jersey: Wiley, 2014.

WEB RESOURCES

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Spectrpy/nmr/nmr1.htm>

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Spectrpy/InfraRed/infrared.htm>

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/Spectrpy/UV-Vis/spectrum.htm>

<https://nptel.ac.in/content/storage2/courses/115101003/downloads/module2/lecture23.pdf> 2.

<https://nptel.ac.in/content/storage2/courses/104106075/Week4/MODULE%2017.pd>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Model preparation

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/SP64												
VI	Course Title: SPECTROSCOPY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	1	3	3	2	2	1
CO 2	3	3	3	1	3	2	2	1	3	3	2	2	2
CO 3	3	3	3	2	3	2	3	2	3	3	3	2	3
CO 4	3	3	3	1	3	3	3	2	3	3	3	2	3
CO 5	3	3	3	2	3	3	3	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

BIOCHEMISTRY

CODE: 23CH/MC/BC64

CREDITS: 4

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To provide knowledge on concepts of Biochemistry and its applications
- To enable understanding of the composition of blood, maintenance of pH of blood, blood coagulation and related disorders
- To facilitate understanding of the structure, classification and functions of biomolecules
- To create an awareness on genetic engineering, its application and ethical issues
- To introduce various biochemical reactions, metabolic pathways and bioenergetics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall terms in biochemistry and genetic engineering, draw structures of biomolecules, relate to fundamental concepts and significance of biochemistry	K1
CO2	classify biomolecules, explain biochemical reactions and summarise the applications of genetic engineering	K2
CO3	apply the concepts of biochemistry in the structure and functions of biomolecules and their metabolic pathways	K3
CO4	analyse the structure and metabolic pathways of biomolecules and compare the tools and techniques in genetic engineering	K4
CO5	evaluate the bioenergetics in metabolic pathways and explain the classification, structure, functions, reactions and mechanism of action of biomolecules	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introductory Biochemistry 1.1 Molecular Logic of Living Organisms 1.2 Relationship of Biochemistry and Medicine 1.3 Blood - Composition of Blood, Blood Coagulation – Mechanism. Haemophilia and Sickle Cell Anaemia Maintenance of pH of Blood – Bicarbonate Buffer, Acidosis, Alkalosis	K1-K3	10	1-3

UNIT	CONTENT	CL	Hrs	CO
	Structure of Biomolecules 2.1 Amino Acids– Classification Based on R Groups and their Metabolism, Zwitter ions, isoelectric point, peptide bond formation, Chemical Reactions - with Mineral Acid (HNO ₂), Formaldehyde, FDNB, and CO ₂ , Ninhydrin Test, Action of Heat on α -, β - and γ - Amino acids 2.2 Proteins - Primary, Secondary, Tertiary and Quaternary Structures. Sequencing of Proteins -N Terminal and C Terminal Determination. Ramachandran Plot 2.3 Lipids– Classification of Lipids as Saponifiable and Non-Saponifiable, Definitions and Significance of Iodine Value, Acid Value, Saponification Value, RM Value and Acetyl Value 2.4 Nucleic Acids – Structure and Functions. Nucleosides, Nucleotides, Structure of DNA, RNA - Types and Differences. DNA Replication and Protein Synthesis 2.5 Genetic Engineering: Definition, overview of tools (type II restriction enzymes) and techniques (creating genetically modified organism through microinjection and agrobacterium mediated recombination), Applications	K1-K5	18	1-5
3.	Metabolism 3.1 Carbohydrate Metabolism - Glycolysis, TCA Cycle, Glycogenesis, Glycogenolysis, Gluconeogenesis, Oxidative Phosphorylation, Electron Transport Chain 3.2 Proteins - Transamination, Oxidative Deamination and Urea Cycle. Inborn Errors of Amino Acid Catabolism –Albinism, Alkaptonuria and Phenyl Ketonuria 3.3 Amino Acids: Synthesis - Gabriel's Synthesis, Strecker's Synthesis. Preparation of Tryptophan from Indole 3.4 Lipids - Oxidation of Fatty Acids, Biosynthesis of Fatty Acids, Ketone Bodies	K1-K5	15	1-5
4.	Enzymes 4.1 Definition of Enzymes and Coenzymes (TPP, NAD, NADP, FAD, ATP) Cofactors-Prosthetic Group of Enzymes 4.2 Classification of Enzymes (with Examples) 4.3 Enzyme Specificity - Factors affecting Enzyme Action 4.4 General Mechanism of Enzyme Catalysis - Michaelis - Menten Theory – Fischer's Lock and Key Model, Koshland's Induced Fit Model 4.5 Mechanism of Inhibition (Competitive, Non- Competitive, Allosteric) 4.6 Structure and Function of Carboxypeptidase A	K1-K5	14	1-5
5.	Vitamins and Hormones 5.1 Vitamins: Definition, Classification (as water and fat soluble), sources, structure and functions of Vitamins A and C 5.2 Definition, Classification of Hormones (Steroid and Non-Steroid Only) Source and Functions of Insulin, Thyroxin and Sex Hormones, Mechanism of Hormone Action	K1-K5	8	1-5

BOOKS FOR STUDY

Jain J. L., Jain S. and Jain N. *Fundamentals of Biochemistry*. New Delhi: S. Chand, 2016.
 Sharma D. K. *Biochemistry*. New Delhi: Narosa Publishing, 2017.

BOOKS FOR REFERENCE

Lehninger A. L. *Principles of Biochemistry*. New Delhi: CBS Publishers, 2006.
Satyanarayana U. and Chakrapani U. *Biochemistry*. Haryana: Elsevier, 2021.
Berg J., Tymoczko J. L. and Stryer L. *Biochemistry*. New York: W.H. Freeman, 2010.

WEB SOURCES

<https://www.slideshare.net/Hamidicup/introduction-to-medical-biochemistry>
<https://www.youtube.com/watch?v=R1wYycfGFjU>
<https://www.youtube.com/watch?v=TNKWgcFPHqw>
<https://www.youtube.com/watch?v=NDIJexTT9j0>
<https://www.youtube.com/watch?v=J30zpvbmw7s>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> • Seven questions to be set • Six questions to be answered out of seven. • Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> • Five questions to be set • Four questions to be answered out of five • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> • Two questions to be set with either/or pattern • Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/BC64												
	Course Title: BIOCHEMISTRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	3	1	3	2	2	3	3
CO 2	3	3	3	2	3	2	3	2	3	3	2	3	3
CO 3	3	3	3	2	3	3	3	2	3	3	2	3	3
CO 4	3	3	3	2	3	3	3	3	3	3	2	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

ORGANIC CHEMISTRY PRACTICAL -II

CODE: 23CH/MC/P761

CREDITS: 1

L T P: 0 0 2

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To facilitate understanding of organic reaction mechanisms
- To impart the skills required to perform organic preparations
- To introduce purification techniques like crystallization and distillation
- To identify organic functional groups and use UV-visible and IR spectral techniques for structural elucidation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the reaction mechanism involved in simple organic preparations	K1
CO2	identify the appropriate reagent required for organic preparation	K2
CO3	analyse the purity by determination of melting and boiling points	K3
CO4	interpret UV-visible and IR spectra to evaluate the structures of simple organic compounds	K4
CO5	synthesise specific organic compounds, purify them and confirm the structure using spectral data	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Organic Preparations 1.1 Acetylation of Aniline 1.2 Benzoylation of amines/phenols 1.3 Preparation of glucosazone 1.4 Hydrolysis of ester 1.5 Oxidation of benzaldehyde 1.6 Preparation of methyl orange 1.7 Nitration of nitrobenzene to m-dinitrobenzene	K1-K6	14	1-5
2.	Purification of organic compounds 2.1 Crystallisation (from water and alcohol) 2.2 Distillation 2.3 Determination of melting and boiling points	K1-K6	8	1-5

UNIT	CONTENT	CL	Hrs	CO
3.	Spectral analysis of simple organic compounds (To be tested internally) 3.1 Identification of functional groups using UV-visible and IR spectral techniques (Spectra to be provided).	K1	4	1

BOOKS FOR STUDY

Furnis B. S., Hannaford A. J., Smith P. W. J. and Tatchell A. R. *Vogel's Textbook of Practical Organic Chemistry*. New Delhi: Pearson India, 2020.

Gnanapragasam N. S. and Ramamurthy G. *Organic Chemistry: Lab Manual*, Viswanathan S., Printers and Publishers, 2009.

BOOKS FOR REFERENCE

Mann F. G. and Saunders B. C. *Practical Organic Chemistry*. Delhi: Pearson Education 2009.
Ahluwalia V. K. and Aggarwal R. *Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis*, Chennai: University Press, 2001.

Ahluwalia V. K. and Dhingra S. *Comprehensive Practical Organic Chemistry: Qualitative Analysis*, Chennai: University Press 2000).

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 Hours

Procedure with equations	-	10 marks
Practical work	-	40 marks
Experimental (Colour, texture and yield)		
Crude	-	30 marks
Recrystallisation	-	10 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Procedure with equations	-	10 marks
Practical work	-	40 marks
Experimental (Colour, texture and yield)		
Crude	-	30 marks
Recrystallisation	-	10 marks

Section	Cognitive Level	Marks	Pattern
Theoretical Principles and Viva	K1-K2	10	Subjective
Preparation of Crude	K3-K6	30	Subjective
Preparation of recrystallized sample	K3-K6	10	Subjective

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/P761												
VI	Course Title: ORGANIC CHEMISTRY PRACTICAL - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	2	1	3	2	2	2	2
CO 2	3	3	2	1	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	1	2	2	3	2	3	3	3	2	22
CO 4	3	3	2	1	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	1	3	3	2	1	3	3	3	2	

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

PHYSICAL CHEMISTRY PRACTICAL – II

CODE: 23CH/MC/P862

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To impart the skills required to handle instruments
- To enhance the skills required to determine the strengths of given sample potentiometrically and conductometrically
- To give an understanding of chemical kinetics and use them to calculate the rate constant and order of the reaction
- To determine the standard electrode potential of $\text{Cu}^{2+}|\text{Cu}$ electrode

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect the theory and principles of physical chemistry experiments	K1
CO2	demonstrate the theoretical concepts in physical chemistry through experiments	K2
CO3	calculate the standard electrode potential, strength of samples, rate constants, order of reaction from experimental data	K3
CO4	analyse the experimental data with that of theoretical values	K4
CO5	estimate the strength of a sample conductometrically and potentiometrically, standard electrode potential, Freundlich adsorption isotherm constants, rate constants and order of reaction from experimental data	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1.	1.1 Theory and principles behind the experiments. 1.2 To prepare and standardise various solutions	K1-K3	3	1-3
2.	Potentiometry and Conductometry 2.1 Determination of Fe^{2+} in the given sample potentiometrically using potassium dichromate by Potentiometry 2.2 Determination of strength of the given acid using quinhydrone by Potentiometry 2.3 Determination of standard electrode potential of $\text{Cu}^{2+} \text{Cu}$ electrode	K1-K6	20	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.4 Determination of strength of strong acid by Conductometry 2.5 Determination of strength of weak acid by Conductometry 2.6 Determination of strength of weak and strong acid by Conductometry			
3.	Chemical Kinetics and Adsorption Isotherm 3.1 Determination of rate constant and order of acid catalyzed hydrolysis of ester 3.2 To study the kinetics of iodide – persulphate reaction (equal concentration) and determine the rate constant and order of the reaction. 3.3 Determine the rate constant of hydrolysis of ethyl acetate by sodium hydroxide (saponification of ester) 3.4 Verification of the Freundlich isotherm for the adsorption of acetic acid on activated charcoal	K1-K6	16	1-5

BOOKS FOR STUDY

Venkateswaran V. Veeraswamy R. and Kulandaivelu A. R. *Basic Principles of Practical Chemistry*, Sulthan Chand, 1997

BOOKS FOR REFERENCE

Viswanathan, B and Raghavan, P.S. *Practical Physical Chemistry*. New Delhi: Viva Books, 2005.

Vogel A. I., *Vogel's Textbook of Quantitative Chemical Analysis*. Prentice Hall, Science, 2000.

Mendhan J., *Vogel's Textbook of Quantitative Chemical Analysis*, Pearson 2009.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 Hours

Two- Three questions on Principles involved in experiments (viva)	- 05 marks
Theoretical principles and nature of graph	- 05 marks
Tabulation, calculation and graph	- 15 marks
Experimental Result	- 25 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Two- Three questions on Principles involved in experiments (viva)	- 05 marks
Theoretical principles and nature of graph	- 05 marks
Tabulation, calculation and graph	- 15 marks
Experimental Result	- 25 marks

Section	Cognitive Level	Marks	Pattern
Theoretical Principles and nature of graph	K1-K3	5	Subjective
Viva	K1-K5	5	Subjective
Tabulation, calculation and graph	K1-K6	15	Subjective
Experiment Result	K1-K6	25	Subjective

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/MC/PCP862												
VI	Course Title: PHYSICAL CHEMISTRY PRACTICAL - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi- Canticle of creatures Seeking the Divine through meditation, prayer and worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family

- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

PHARMACEUTICAL CHEMISTRY

CODE: 23CH/ME/PH45

CREDITS: 5

L T P: 4 0 1

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To enable understanding of the concepts in pharmaceutical chemistry
- To facilitate understanding of the working of various drugs for specific diseases
- To introduce the principles and methodologies involved in computer aided drug design
- To introduce the concept of drug design and development

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamental principles of organic chemistry and apply them to pharmaceutical chemistry	K1
CO2	discuss the causes and treatment methods of various diseases and differentiate between classical and modern methods in drug design	K2
CO3	illustrate the properties of active pharmaceutical ingredients and CADD principles used in drug designing	K3
CO4	analyse important drug molecules along with their therapeutic uses in classical and modern drug development	K4
CO5	relate the properties of various drugs with their pharmacological activity	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Pharmaceutical Chemistry 1.1 Definitions - Pharmacy, Pharmacology, Pharmacodynamics, Pharmacokinetics, Antimetabolites, Mutation, Pharmacognosy, Toxicology, Pharmacotherapeutics, Chemotherapy, Therapeutic Index and Active site. Classification of Drugs	K1- K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	1.2 Pharmacological aids – Preservatives (sodium benzoate), Sequestrants (Calcium EDTA) and Antioxidants (Esters of Gallic acid) 1.3 Routes of administering drug, Dosage forms, Slow-release drug formulation. Storage of drugs - factors affecting stability of drugs. 1.4 ADMET properties of drugs 1.5 Effect of unsaturation, chain length, isomerism and functional groups on pharmacological activity.			
2.	Common Diseases and their Treatment 2.1 Viral infections - AIDS, Covid-19, Dengue 2.2 Bacterial infections – Urinary tract infections, tuberculosis, sepsis. 2.3 Haematological agents - Anaemia – Causes and Control – Anti-anaemic drugs. Blood Pressure, Hypo and Hypertension - Causes, Prevention and Treatment; antihypertensive agents - Aldomet, Reserpine. 2.4 Cardiovascular diseases: Cardiac glycosides - Digoxin; antiarrhythmic drugs - Quinidine-structure, dosage, therapeutic uses. 2.5 Antianginal agents - nitriles; vasodilators -Sodium nitroprusside, papaverine, nicotinic acid	K1- K5	14	1-5
3.	Drugs of Importance 3.1 Analgesics: Narcotic – Morphine, Pethidine and Methadone - Source, structure and uses. Non-Narcotic Drugs - Antipyretic and Anti-Inflammatory Agents - synthesis, characteristics and uses (Aspirin, Paracetamol, Phenylbutazone and Ibuprofen), Non-steroidal anti-inflammatory drugs (NSAIDS). 3.2 Anaesthetics - Conditions of an ideal anaesthetic agent, Stages of anaesthesia. Types of anaesthetics, nitrous oxide, cocaine and barbiturates. 3.3 Antibiotics: Structure and therapeutic uses of Penicillin, Streptomycin, Tetracycline and Chloramphenicol. Resistance to antibiotics. 3.4 Diabetes - Types and Causes, Hypoglycaemic Agents – Biguanides and sulphonyl ureas 3.5 Types and Treatments of Cancer, Antineoplastic Drugs – Antimetabolites (methotrexate, fluorouracil), Plant products (Vinca Alkaloids and Paclitaxel), Hormone and Radioactive Iodine therapy.	K1- K5	16	1-5
4.	Drug Discovery and Design 4.1 Drug discovery – classic steps and modern method. Lead molecule, target structure and validation methods. Principles of rational drug discovery.	K1- K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
	4.2 Drug Targets: Cell structure in brief, drug target-Proteins, nucleic acids, drug targets at molecular level, intermolecular bonding forces - electrostatic bonding forces, hydrogen bonding, dipole-dipole and ion-dipole interactions, van der Waals interaction, Repulsive interaction, role of water and hydrophobic interactions 4.3 Introduction to Computer Aided Drug Design (CADD)			
5.	Practical (To be tested internally) 5.1 Synthesis of Aspirin 5.2 Estimation of Iron / Vitamin A / Phosphorous by Colorimetry / Spectrophotometry 5.3 Separation of Analgesics (Ibuprofen, Paracetamol, Aspirin) by Thin Layer Chromatography (TLC) 5.4 Identification of blood group 5.5 Monitoring blood glucose and blood pressure	K1- K5	13	1-5

BOOKS FOR STUDY

Chatwal G. R. *Pharmaceutical Chemistry - Inorganic Vol 1*. New Delhi: Himalaya Publishing House, 2018.

Ghosh J. *A Textbook of Pharmaceutical Chemistry*. New Delhi: Sultan Chand and Sons, 2014.

Lakshmi S. *Pharmaceutical Chemistry*. 3rd Ed., New Delhi: Sultan Chand and Sons, 2004.

Harrold M. W. and Zavod R. M. *Basic Concepts in Medicinal Chemistry*. Maryland: American Society of Health-System Pharmacists, 2013.

BOOKS FOR REFERENCE

Craig R. and Stitzel R. E. *Modern Pharmacology*. Boston: Little Brown, 2000.

Kar A. *Medicinal Chemistry*, 2nd Ed., New Delhi: New Age Publishers, 2002.

Patrick G, *Instant Notes in Medicinal Chemistry*, New Delhi: Viva Books, 2002.

Lemke T. L., Zito W. S., Roche V. F. and Williams D. A. *Essentials of Foye's Principles of Medicinal Chemistry*. Chennai, Wolters Kluwer India, 2016.

Mukherjee K. L. *Medical Laboratory Technology*. New Delhi: Tata McGraw-Hill, 2005.

WEB RESOURCES

<https://nptel.ac.in/courses/104106106>

<https://www.frontiersin.org/journals/chemistry/sections/medicinal-and-pharmaceutical-chemistry>

<http://www.chemguide.co.uk/orgmenu.html>

PATTERN OF ASSESSMENT

Continuous Assessment: **Total Marks: 50** **Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component: **Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project / Practical to be tested internally

End-Semester Examination: **Total Marks: 100** **Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none">• Seven questions to be set• Six questions to be answered out of seven.• Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none">• Five questions to be set• Four questions to be answered out of five• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none">• Two questions to be set with either/or pattern• Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/ME/PH45												
IV	Course Title: PHARMACEUTICAL CHEMISTRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	2	3	3	3	3	2	3
CO 2	3	3	3	2	3	3	3	3	3	3	3	2	3
CO 3	3	3	3	3	3	2	3	3	3	3	3	2	3
CO 4	3	3	3	3	2	3	3	3	3	3	3	2	3
CO 5	3	3	3	3	2	3	3	3	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023 – 2024)

POLYMER CHEMISTRY

CODE: 23CH/ME/PL45

CREDITS: 5

L T P: 4 0 1

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To enable understanding of the basic techniques and mechanisms of polymerisation
- To facilitate understanding of the chemistry of polymers and their manufacturing techniques
- To introduce the properties and degradation techniques of polymers

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	relate the chemistry of polymers and polymerisation techniques	K1
CO2	illustrate the types, mechanisms, kinetics, and techniques of polymerisation, molecular weight and degradation of polymers.	K2
CO3	classify polymers based on techniques, occurrence, molecular weight and degradation	K3
CO4	explicate the structure, properties, and applications of polymers, determination of molecular weight, glass transition temperature, kinetics of polymerisation, degradation in polymers and mechanisms of vulcanisation	K4
CO5	interpret molecular weight, glass transition temperature and degradation in polymers.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Polymers 1.1 Classification of Polymers Based on Origin/Occurrence, Chemical Structure, Physical Properties, Mechanical behaviour, Polymerisation Process, Arrangement of Monomers and Thermal Properties. 1.2 Natural and Synthetic Fibers: Types, Regenerated Cellulose Acetate Fibers, Nylon. 1.3 Structure, Properties and Applications of PU, PVC, Poly Acrylates, PMMA, Silicones, Plastics, Emulsions, Resins	K1-K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
2.	Chemistry of Polymerisation 2.1 Types and Mechanism of Addition, Condensation, Free Radical, Ionic and Coordination Polymerisation 2.2 Kinetics of Free Radical and Ionic Polymerisation Kinetic Chain Length 2.3 Synthesis of Graft and Block Co-Polymers. 2.4 Techniques of Polymerisation- Bulk, Solution, Suspension, Emulsion, Melt Polycondensation, Solution Polycondensation, Interfacial Condensation, Solid and Gas Phase Polymerisation. 2.5 Stereospecificity in Polymers, Tacticity	K1-K5	15	1-5
3.	Molecular Weight and Properties of Polymers 3.1 Molecular Weight of Polymers-Number Average and Weight Average, Molecular Weight Distribution, Determination of Molecular Weight 3.2 Glass Transition Temperature-State of Aggregation and State of Phase Transitions, Factors Influencing Glass Transition Temperature, Importance of Glass Transition Temperature, Heat Distortion Temperature. 3.3 Crystallinity of Polymers: Crystalline Behaviour, Degree of Crystallinity 3.4 Reactions of Polymers-Hydrolysis, Acidolysis, Aminolysis, Addition and Substitution Reactions (One Example Each) 3.5 Cyclisation, Cross-Linking and Reactions of Specific Functional Groups in the Polymer	K1-K5	15	1-5
4.	Polymer Degradation 4.1 Types of Degradation - Thermal, Mechanical, Ultra Sound, Photo Radiation and Chemical Degradation Methods 4.2 Rubber-Natural and Synthetic-Structure, Mechanism of Vulcanisation 4.3 Biodegradable and Non-Biodegradable Polymers	K1- K5	12	1-5
5.	Practical (To be assessed internally) 5.1 Systematic analysis of polymers 5.2 Synthesis of Phenol-Formaldehyde Resin/Urea Formaldehyde Resin 5.3 Synthesis of Polymethylmethacrylate (PMMA) 5.4 Determination of the Molecular Weight of Polyvinyl Alcohol (PVA) using Oswald Viscometry	K1-K5	13	1-5

BOOKS FOR STUDY

Gowariker V. R., Viswanathan V. N. and Sreedhar J. *Polymer Science*. New Delhi: New Age International, 2015.

Misra G. S. *Introductory Polymer Chemistry*. New Delhi: Wiley Eastern, 2010.

BOOKS FOR REFERENCE

Billmeyer F. W. *Polymer Science*. India: Wiley-Interscience, 2007.

Fried J. *Polymer Science and Technology*. New Delhi: Prentice Hall, 2005.

Bahadur P. and Sastry N. V. *Principles of Polymer Science*. New Delhi: Narosa Publishing, 2005.

WEB RESOURCES

<https://www2.chemistry.msu.edu/faculty/reusch/virttxtjml/polymers.htm>

<http://amrita.vlab.co.in/?sub=2&brch=190&sim=603&cnt=1>

<https://nptel.ac.in/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component:

Total Marks: 50

Seminar / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project / Practical to be tested internally

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/ME/PL45												
	Course Title: Polymer Chemistry												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

COMPUTERS IN CHEMISTRY

CODE: 23CH/ME/CC45

CREDITS: 5

L T P: 3 2 0

TOTAL HOURS: 65

OBJECTIVE OF THE COURSE

- To provide basic knowledge in computing techniques and software and their relationship to chemistry
- To enable students to apply computing techniques and software to solve problems in Chemistry
- To familiarise on existing databases and their application in cheminformatics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recognise the short cut keys and tools in MS word, MS Excel, MathCad, Chemdraw, Chem 3D Pro and Origin.	K1
CO2	discuss the different tools used in MS word, MS Excel, MathCad, Chemdraw and Chem 3D Pro and databases used in drug discovery and molecular structure representations.	K2
CO3	apply different tools in MS Excel, MathCad, Chemdraw and Chem 3D Pro software to solve numerical problems, graphical problems and to draw reaction schemes/mechanisms.	K3
CO4	analyse the nature of compounds, 2D and 3D structures, stereochemistry using Chemdraw & Chem 3D Pro, shapes of orbitals using Polar plot and 3D plot wizard in MathCad and the data given by statistical and graphical tools in MS Excel and MathCad software.	K4
CO5	evaluate theoretical and experimental data of physical and analytical chemistry problems through MS Excel and MathCad, ¹ HNMR, ¹³ C NMR and Mass fragmentation patterns of compounds using Chemdraw and Chem 3D Pro.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Data Processing and Analysis 1.1 Elements of Computer Architecture - Creating, Editing, Naming, Renaming and Locating Files, Folders, Directory 1.2 Components of Excel - Spreadsheets, Database, Chart & Building Workbooks 1.3 Building Formulae, User Made and Statistical Functions, Formatting Cells 1.4 Managing and Organizing Data - Creating Link, Analysing Data 1.5 Solving numerical problems in Chemistry (Precision and Accuracy), Standard Deviation using Spectral Data	K1 – K5	15	1-5
2.	Introduction to Graphs 2.1 Introduction to Charts - Types, Creating Charts from a Table, Reviewing Graphs 2.2 Solving Problems through Plotting graphs and using Theoretical and Experimental Data. Trend Line Addition and Determining the Slope and Intercept 2.3 Demonstration of ORIGIN software	K1 – K5	15	1-5
3.	Introduction to MathCad 3.1 Eigen Values and Eigen Vectors of Matrices 3.2 Differential and Integral Calculus 3.3 Histograms, Extrapolation and Interpolation in Graphs, Curve Cutting Integration methods 3.4 Regression Analysis of Experimental Data and its Related Techniques 3.5 Solutions for Simultaneous Equations by Matrix Methods	K1-K3	10	1-3
4.	CHEM Draw & CHEM 3D Pro 4.1 Using CHEM DRAW for Writing Chemical Equations and Representing Schemes of Reaction Mechanisms, Editing, Transporting as Picture to Word Document 4.2 Using CHEM 3D PRO for Building Molecules and for Measurement of Bond Angles, Bond Energy, Energy Minimization 4.3 Use of Internet in Chemical Research - XRD, IR, NMR Data	K1 – K5	15	1-5
5.	Molecular Mechanics (To be tested internally) 5.1 Introduction to Cheminformatics - 2D Databases - Explore -Structure, Substructure, property and similarity search	K2 - K3	10	2-3

UNIT	CONTENT	CL	Hrs	CO
	5.2 Representation and manipulation of 2D Molecular Structures, 3D Databases: experimental data sources, Chemical Databases – CHEMDB, KEGG LIGAND, CAS REGISTRY, Chemical finding methods – structure, sub structure, similarity in structure and reaction			

BOOKS FOR STUDY

Kumari R. *Computers and Applications to Chemistry*. New Delhi: Alpha Science International Ltd., 2005.

Holler F. J. and Crouch S. R. *Applications of Microsoft Excel in Analytical Chemistry*, UK: Cengage Learning, 2013.

Kapoor K. L. *A Text Book of Physical Chemistry, Computational Aspects of Physical Chemistry*, Noida: McGraw-Hill India, 2017.

Harvey, J. *Computational Chemistry*. Oxford: OUP Oxford, 2018.

BOOK FOR REFERENCE

Raman K. V. *Computers in Chemistry*. Noida: McGraw Hill Education, 2002.

Leach A. R. and Gillet V. J. *An Introduction to Chemoinformatics*. UK: Springer, 2007.

Bunin B. A. Dordrecht. *Chemoinformatics: Theory, Practice, and Products*. UK: Springer, 2010.

WEB RESOURCES

https://www.cambridgesoft.com/Ensemble_for_Chemistry/ChemDraw/

<http://www.sciencesoftware.se/en/>

<http://www.analytictech.com/networks/graphtheory.htm>

<https://cdb.ics.uci.edu/>

<https://www.genome.jp/pathway/hsa0408>

<https://www.cas.org/cas-data/cas-registry>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/ME/CC55												
V	Course Title: COMPUTERS IN CHEMISTRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	3	3	2	2	2	3
CO 2	3	3	2	2	2	2	2	3	3	3	2	2	3
CO 3	3	3	2	2	2	2	3	3	3	3	3	2	3
CO 4	3	3	2	2	3	3	3	3	3	3	3	2	3
CO 5	3	3	2	2	3	3	2	3	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

FOOD CHEMISTRY

CODE: 23CH/ME/FC45

CREDITS: 5

L T P: 4 1 0

TOTAL HOURS: 65

OBJECTIVES OF THE COURSE

- To create awareness of the chemistry of different constituents of food
- To provide understanding of food laws, chemical bases of food component reactivity and functionality
- To facilitate skill development for manipulating the chemical and/or functional properties of foods

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	CO DESCRIPTION	CL
CO1	recall the constituents of food, nutritional aspects of diet, food laws and quality control	K1
CO2	illustrate the knowledge of the constituents of food, food additives, nutritional and balanced diet, food laws and food quality control	K2
CO3	analyse the effectiveness of a diet from its constituents	K3
CO4	evaluate the calorific value of food containing various constituents, the presence of adulterants and the type of diet based on BMR	K4
CO5	integrate the calorific value of food, the diet associated with it, effect of adulterants in accordance with food laws.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Constituents of Food 1.1 Carbohydrates and lipids- composition, classification, sources, functions, physical & chemical parameters., functions of sugar in food (Browning reaction), changes during cooking and processing. Lipids – composition, nomenclature, saturated, unsaturated fatty acids, classification, food sources, functions of fats. Physical and chemical properties, emulsions, Role of food lipids in flavour.	K1- K5	16	1-5

UNIT	CONTENT	CL	Hrs	CO
	<p>1.2 Proteins – composition, classification sources, functions, denaturation, and protein deficiency, determination of protein quality.</p> <p>1.3 Minerals and Vitamins - Sources, functions, bioavailability and deficiency of the following minerals - calcium, iron, iodine, fluorine, sodium and potassium (elementary treatment). Vitamins - classification, sources, functions and deficiencies (A, D, E, K, C, B complex - riboflavin, thiamine, Folic acid, B₆ and B₁₂). Effect of cooking on vitamins and minerals</p> <p>1.4 Water as a nutrient, function, sources, requirement, structure, water balance – effect of deficiency. Moisture in food: Hydrogen bonding, Bound water, Free water, Water activity and Food stability</p>			
2.	<p>Food additives</p> <p>2.1 Definitions of Food Additives, Classification and Functions - Legitimate uses of additives in foods, Intentional and Non-Intentional additives, Indirect food additives, Food in formulation. Additives such as colour, preservatives (Class I and Class II preservatives as per FSSAI), antioxidants, emulsifiers, sequestrants, Humectants and stabilizers-Uses</p> <p>2.2 Significance of natural pigments in food – Chlorophylls, Carotenoids. Pigments in food and their industrial applications.</p> <p>2.3 Flavours – Types of food flavours-natural and artificial, flavours generated during processing, Low calorie and non-nutritive sweeteners, flour improvers and acidulants- uses and functions in formulations</p> <p>2.4 Toxicological evaluation of food additives</p>	K1- K5	12	1-5
3.	<p>Nutrition and Balanced Diet</p> <p>3.1 Nutrition – Food as source of Energy –energy value of food Unit of energy, food as a source of energy, energy value of food, the body's need for energy, Utilization of food for energy requirements, calorific value of food –Respiratory quotient of food B.M.R (Basal Metabolic Rate). Activities – factors influencing BMR, specific dynamic action (SDA) of food. Thermogenic effect, Energy requirements of young women (age group -18-25; 26-46; 46 -60)</p> <p>3.2 Nutritional value of carbohydrates and Protein, diets and its components, the protein requirements – biological value of proteins, supplementary value of proteins– Fibre in the diet, dietary sugars – nutritional aspects of lipids.</p>	K1- K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	3.3 Millets - Types, components, functions and significance, Millets as a supplement to rice and wheat.			
4.	Food quality control 4.1 Quality Control and its importance, Quality Assurance 4.2 HACCP (Hazard Analysis Critical Control Point)) Food Laws- PFA, Salient features of P.F.A., Misbranded / adulterated Food, Brief Outline of Labelling Provisions Under PFA, Food Acts - BIS, FPO, Essential Commodities, Consumer Protection, Agricultural Produce (AGMARK), FSSAI 4.3 Role and Functions of Implementing Agencies with references to Indian Scenario. Tips to Consumers for Buying Safety Food 4.4 Sensory Characteristics of Food, Factors affecting Food Acceptance - Sensory and Psychological. Objective Method of Sensory Evaluation	K1- K5	12	1-5
5.	Practical (To be assessed internally) 5.1 Simple healthy preparations using millet and quinoa <ul style="list-style-type: none"> • Salad • Dosa • Idly • Ladoo • Quinoa dosa • Pongal 	K1- K5	13	1-5

BOOKS FOR STUDY

Swaminathan M. *Textbook on Food Chemistry*. Bangalore: Printing and Publishing Co. Ltd., 2010.

Fennema O. R. *Food Chemistry*, New York: Marcel Decker Inc., 2006.

Srilakshmi B. *Food Science*, 3rd Ed. New Delhi: New Age International Publishers, 2003.

BOOKS FOR REFERENCE

deMan J. M. *Principles of Food Chemistry*. Maryland: ASPEN Publication, 2006.

Potter M. N. *Food Science*, New Delhi: CBS Publishers and Distributors, 2004.

Mayer W. H. *Food Chemistry*, New Delhi: CBS Publishers and Distributors, 2012.

Damodaran S., Parkin K. L. and Fennema O. R. *Fennema's Food Chemistry* 4th Ed., CRC Press, 2008.

Belitz H-D., Grosch W. and Schieberle, P. *Food Chemistry* 3rd Ed. Germany: Springer, 2004.

WEB RESOURCES

<https://nptel.ac.in/courses/103107088/module4/lecture1/lecture1.pdf>

<https://www.nutrition.org.uk/healthyliving/healthydiet/healthybalanceddiet.html>

<https://www.indeed.com/q-Food-Quality-Control-jobs.html>

<http://videos.howstuffworks.com/discovery-health/36937-bob-greene-manon-the-streets-nutrition-quiz-video.htm>

<http://www.who.int/dietphysicalactivity/publications/trs916/summary/en/>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project / Practical to be tested internally

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/ME/FC45												
IV	Course Title: FOOD CHEMISTRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023–2024)

PROJECT

CODE: 23CH/ME/PR45

CREDITS: 5

OBJECTIVES OF THE COURSE

- To provide understanding of the principles and concepts of the project topic
- To facilitate critical thinking and problem solving
- To impart skills required to carry out chemical reactions in a laboratory
- To encourage independent research and report writing

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	CO DESCRIPTION	CL
CO1	define the research problem and plan the course of action	K1
CO2	demonstrate critical thinking, problem solving and analytical reasoning to solve scientific problems	K2
CO3	perform chemical reactions in a laboratory using standard procedure and safety precautions	K3
CO4	communicate the results of the scientific work done in oral and written format	K4
CO5	design and carry out scientific experiments, record and analyse the results of the experiments	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

GUIDELINES FOR PROJECT

- Project should be done individually.
- Each student will choose a topic of her interest and the student will be assigned to a supervisor
- The project will require practical work with the submission of a project report. It should include experimental lab work.
- The duration of the project work is one semester
- The project report should be submitted in the prescribed format containing a minimum of 30 pages.
- The report should be enhanced with graphs, spectra, tables and/or photographs
- Each candidate has to give three periodical reviews to the internal guide on the scheduled dates prescribed by the Department

- Each candidate will submit 3 hard copies of the project thesis and submit on the scheduled date.
- The student will appear for viva voce before a panel comprising the External Examiner, supervisor and Head of the Department

PATTERN OF EVALUATION

INTERNAL

Total Marks: 50

CONTENT	COGNITIVE LEVEL	MARKS
Research statement and methodology	K1-K2	10
Documentation	K1-K4	15
Periodic review	K1-K6	25

EXTERNAL

Total Marks: 50

CONTENT	COGNITIVE LEVEL	MARKS
Report	K1-K4	30
Viva	K1-K6	20

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**General Elective Course offered by the Department of Chemistry for
B.A. / B.Sc. / B.Com. / B.V.A Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

COSMETICS AND PERSONAL CARE

CODE: 23CH/GE/CP22

CREDITS: 2

L T P: 2 0 0

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce the concept of cosmetology
- To enable understanding of the importance of personal care
- To stimulate interest in the chemical formulations used in cosmetics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list the different aspects of skin, hair, personal care and cosmetics	K1
CO2	classify different types of hair, skin, beauty treatments and cosmetics	K2
CO3	select the correct cosmetic for personal care	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1.	Skin Care 1.1 Skin - Structure and Functions- pH and Moisture Balance, Maintenance of Skin 1.2 Types of Skin - Dry Skin, Oily Skin, Wrinkled Skin 1.3 Cleansing of Skin, Creams and Lotions, Astringent and Skin Tonics, Skin Lighteners, Depilatories, and Food Habits Related to Skin Care.	K1-K3	8	1-3
2.	Scalp and Hair Treatments 2.1 Structure of Hair, Growth and Type of Hair 2.2 Shampoos and Conditioners, Hair Styling Products, Hair Ironing and Methods of Colouring/ Dyeing- Precautionary Measures 2.3 Personal Care and Cleanliness of Hair.	K1-K3	8	1-3

UNIT	CONTENT	CL	Hrs	CO
3.	Beauty Treatments 3.1 Facials – Types, Advantages and Disadvantages 3.2 Lipstick, Eyeliner, Mascara, Eye Shadow - Chemical Composition 3.3 AHA Exfoliation, Facial - Galvanic, High Frequency, Aroma Therapy 3.4 Toxicology of Cosmetics 3.5 Demonstration by Experts in the Field of Cosmetology	K1-K3	10	1-3

BOOKS FOR STUDY

Mathew G. G. D. *Chemistry in Everyday Life*. Delhi: Vishal, 2014.

Wilkinson J. B. E. and Moore R. J. *Harry's Cosmetology*. London: Chemical Publishers, 2000.

WEB RESOURCES

http://www.abpschools.org.uk/page/modules/skin/.cfm?coSiteNavigation_allTopic=1

<http://health.howstuffworks.com/skin-care/nail-care>

http://www.chemistryviews.org/details/ezone/4007741/Shampoo_Science.html

http://www.webhealthcentre.com/HealthyLiving/personal_hygiene_index.aspx

PATTERN OF ASSESSMENT

No End Semester Examination

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (MCQs/Match the following/Fill in the blanks)
B	K2	6	3 x 2 = 6 marks
C	K3	9	3 x 3 = 9 marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions

Other Component: Total Marks: 25

Seminars / Quiz / Assignment / Group Discussions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**General Elective Course offered by the Department of Chemistry for
B.A. / B.Sc. / B.Com. / B.V.A Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

NEUTRACEUTICALS AND HEALTH CARE

CODE: 23CH/GE/NH22

CREDITS: 2

L T P: 2 0 0

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To provide understanding of food science and nutrition
- To introduce functional foods, supplements and prebiotics
- To create awareness of basic concepts of diet therapy and nutritional care

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline the importance of nutraceuticals in the maintenance of good health	K1
CO2	discuss the role of nutraceuticals and phytonutrients in nutritional care	K2
CO3	apply the principles of diet therapy in weight management	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Nutraceuticals 1.1 Definition and Classification of Nutraceuticals 1.2 Relationship between Nutraceuticals, Food and Medicine 1.3 Prebiotics: Definition, Sources, Bioavailability, Effects on Human Health and applications - Non-Digestible (Carbohydrates / Oligosaccharides), Dietary Fibre and Resistant Starch 1.4 Probiotics: Probiotic Microorganisms, Foods - Fermented Milk Products 1.5 Non-Milk Products, Quality Assurance of Probiotics and Safety	K1- K3	9	1-3
2.	Phytonutrients 2.1 Role of Isoprenoids, Flavonoids, Carotenoids and Polyunsaturated Fatty Acids. 2.2 Functional Foods – Vegetables, Cereals, Milk and Dairy Products 2.3 Nutraceutical Rich Supplements – Caffeine, Green Tea, Mushroom Extract, Chlorophyll and Spirulina 2.4 Nutraceutical Remedies – Bronchitis, Circulatory Problems, Hypoglycaemia, Nephrological Disorders, Liver Disorders, Psoriasis and Ulcers	K1- K3	7	1-3

UNIT	CONTENT	CL	Hrs	CO
3.	Diet therapy and Health Care 3.1 Basic Concepts of Diet Therapy –Principles and Classification of Therapeutic Diets 3.2 3.2 Nutritional Care for Weight Management – Etiological Factors Contributing to Obesity, Low Energy Diets, Balanced Energy Reduction and Behavioural Modification - Underweight – Aetiology and Assessment, High Energy Diets For Weight Gain	K1- K3	10	1-3

BOOKS FOR STUDY

Wildman R. E. C. *Handbook of Nutraceuticals and Functional Foods* 2nd Ed., Boca Raton: CRC Press, 2016.

BOOKS FOR REFERENCE

Aluko R. E. *Functional Foods and Nutraceuticals*. Boca Raton: CRC Press, 2012.

WEB RESOURCES

<http://www.ajpcr.com/Vol3Issue1/265.pdf>

http://sphinx.sai.com/Vol.3No.1/pharm_jan-mar11/pdf/JM11%28PT=74%29%20pp%20442-448.pdf

<https://www.news-medical.net/health/What-are-Nutraceuticals.aspx>

<https://www.escardio.org/Journals/E-Journal-of-Cardiology-Practice/Volume-9/Nutraceuticals-what-they-are-and-how-they-work>

PATTERN OF ASSESSMENT

No End Semester Examination

Continuous Assessment: Total Marks: 25 Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (MCQs/Match the following/Fill in the blanks)
B	K2	6	3 x 2 = 6 marks
C	K3	9	3 x 3 = 9 marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions

Other Component: Total Marks: 25

Seminars / Quiz / Assignment / Group Discussions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**General Elective Course offered by the Department of Chemistry for
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SYLLABUS

(Effective from the academic year 2023-2024)

FOOD QUALITY AND DETECTION OF FOOD ADULTERATION

CODE: 23CH/GE/FA22

CREDITS: 2

L T P: 1 0 1

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To enable understanding of the legislative aspects in food quality control
- To communicate the importance of buying safe food and understanding nutritional labels
- To use the simple Home Kit to detect food adulteration in common food items

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall food laws and the role and functions of the implementing agencies in India	K1
CO2	recognize the functions of food additives, importance of food labels and simple tests to detect adulterants in common food samples	K2
CO3	demonstrate the simple Home Kit to detect food adulteration	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1.	Food Quality Control 1.1 Quality Control and its importance, Quality Assurance, HACCP 1.2 Food Laws: Prevention of Food Adulteration Act, BIS Act, FPO Act, Essential Commodities Act, Consumer Protection Act, Agricultural Produce Act (AGMARK), FSSAI, Drug License and WHO Standards 1.3 Salient Features of P.F.A., Misbranded Food, Brief Outline of Labeling Provisions Under P.F.A 1.4 Role and Functions of Implementing Agencies with references to Indian Scenario. Tips to Consumers for Buying Safety Food 1.5 Sensory Characteristics of Food, Factors affecting Food Acceptance - Sensory and Psychological. Objective Method of Sensory Evaluation	K1-K3	9	1-3

UNIT	CONTENT	CL	Hrs	CO
2.	Food Additives 2.1 Artificial Sweeteners – Saccharin, Cyclamate, Aspartame, Food Flavours – MSG, Esters, Aldehydes and Heterocyclic Compounds, Antioxidants, Food Colours – Permitted and Non-permitted colours, Emulsifying Agents, Preservatives, Leavening Agents - Baking Powder and Yeast	K1-K3	4	1- 3
3.	Practical (to be tested internally) 3.1 Assessment of Food Quality - Sensory Evaluation Rating Test – Hedonic, Numerical Scoring Test, Descriptive Test – Flavour Profile 3.2 Detection of Adulterants: Chicory and Tamarind Seed Powder in Coffee Powder, Non-Permitted Colours in Tea and Dhal, Metanil Yellow in Turmeric Powder, Kesari Dhal and Toor Dhal, Castor Oil in Coconut Oil, Papaya Seeds and Rotten Pepper in Pepper, Brick Powder in Chilli Powder, Washing Soda in Jaggery, Vanaspati in Ghee, Chalk Powder in Salt and Sugar, Non-Permitted Colours in Jams, Jelly, Juices and Saccharin in Supari	K1-K3	13	1-3

BOOKS FOR STUDY

Swaminathan G. and George M. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

Malik S. *Handbook of Food Adulteration and Safety Laws*, India: Eastern Book Company, 2012.

BOOKS FOR REFERENCE

Meyer L. H. *Food Chemistry*. India: CBS Publishers & Distributors, 2004.

Mudambi R. S. and Rajagopal M. V. *Fundamentals of Foods and Nutrition*. India: Wiley Eastern, 2004.

Srilakshmi B. *Food Science*. New Delhi: New Age International, 2023.

Swaminathan M. *Handbook of Food and Nutrition*. Bangalore: Bangalore Printing and Publishing, 2018.

WEB RESOURCES

<https://www.sciencedirect.com/topics/food-science/food-adulteration>

<https://www.fssai.gov.in/cms/checkadulteration.php>

<https://www.tandfonline.com/journals/bfsn20>

PATTERN OF ASSESSMENT

No End Semester Examination

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (MCQs/Match the following/Fill in the blanks)
B	K2	6	$3 \times 2 = 6$ marks
C	K3	9	$3 \times 3 = 9$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions

Other Component:

Total Marks: 25

Seminars / Quiz / Assignment / Group Discussions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**General Elective Course offered by the Department of Chemistry for
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SYLLABUS

(Effective from the academic year 2023-2024)

BASIC NUTRITIONAL CHEMISTRY

CODE: 23CH/GE/BN22

CREDITS: 2

L T P: 2 0 0

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To enable understanding of the fundamental aspects of nutrition
- To introduce healthful lifestyle as a way of living
- To create awareness of the consequences of overnutrition and malnutrition
- To communicate the importance of nutritional labels and allergy warnings

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline the importance of nutrition in the maintenance of good health	K1
CO2	discuss the role of nutrients and their properties	K2
CO3	apply nutrition concepts to improve the health of self and community	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1.	Nutrition and Health 1.1 Definition - Nutrition, Health and Disease; Nutrients – Macronutrients - Carbohydrate, Protein, Fat, Water - Micronutrients - Vitamins and Minerals 1.2 Under Nutrition, Over Nutrition, and Malnutrition; Diet Recommendations for Optimal Health 1.3 Mandatory and Optional Inclusions on Nutrition Labels, Claims on Labels, Allergy Warnings	K1- K3	9	1-3
2.	Indicators of Health 2.1 Body Mass Index (BMI) – Calculation, Limitations; Body Fat and its Distribution 2.2 Health Risk – Obesity, Underweight - Anorexia Nervosa, Bulimia, Binge Eating Disorder 2.3 Recommendations for Weight Management - Dietary, Behavioural, and Physical Activity	K1- K3	7	1-3

UNIT	CONTENT	CL	Hrs	CO
3.	Nutrition through Life 3.1 From Childhood to Adulthood 3.2 Dietary Food Trends - Functional Foods, Conventional Foods, Modified Foods and Medical Foods 3.3 Popular Diets - GM Diet, DASH Diet, Gluten-Free Diet, Low-Carb Diets, The Macrobiotic Diet, the Mediterranean Diet, Vegetarian and Vegan Diets	K1- K3	10	1-3

BOOKS FOR STUDY

Zimmerman M. and Snow B. *An introduction to Nutrition*. Creative Commons, 2012.
 Srilakshmi B. *Nutrition Science*. New Delhi: New Age International, 2014.
 Swaminathan M. *Handbook of Food and Nutrition*. Bangalore: Bangalore Press, 2018.

BOOKS FOR REFERENCE

Mayer W. M. *Food Chemistry*. New Delhi: CBS Publishers and Distributors, 2022.
 Fennema O. R. *Food Chemistry*. 5th Ed., Boca Raton: CRC Press, 2017.

WEB RESOURCES

<https://nptel.ac.in/courses/126104004>
<https://www.mastersportal.com/disciplines/131/nutrition-dietetics.html>

PATTERN OF ASSESSMENT

No End Semester Examination

Continuous Assessment: **Total Marks: 25** **Duration: 45 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (MCQs/Match the following/Fill in the blanks)
B	K2	6	3 x 2 = 6 marks
C	K3	9	3 x 3 = 9 marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions

Other Component: **Total Marks: 25**

Seminars / Quiz / Assignment / Group Discussions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**General Elective Course offered by the Department of Chemistry for
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SYLLABUS

(Effective from the academic year 2023-2024)

FORENSIC CHEMISTRY

CODE: 23CH/GE/FC22

CREDITS: 2

L T P: 2 0 0

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To enable understanding of the fundamental aspects of criminology and forensic science
- To create awareness of the different types of explosives and firearms
- To communicate the importance of collecting evidence and the methods of analysing them

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	name physical and biological evidence and describe the various methods to process them	K1
CO2	describe the role of evidence, firearms and explosives in forensic science	K2
CO3	apply scientific methods in crime detection	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Criminalistics 1.1 Investigating the Crime Scene - Documenting the Scene and the Evidence, Recognition of Physical Evidence Collection, Preservation, Inventory, and Transportation of Physical Evidence 1.2 Investigating and Processing Physical Evidence - Types of Evidence, the Modern Crime Lab, Functions of a Forensic Scientist, Characteristics of Physical Evidence	K1- K3	6	1-3
2.	Trace, Physical and Biological Evidence 2.1 Forensic Identification of Hair, Fibre, Paint and Glass 2.2 Fingerprints - Characteristics of Fingerprints, Methods for Developing Fingerprints, Preservation of Fingerprints, Handwriting, Typed and Word-processed documents, Photocopied Documents	K1- K3	10	1-3

UNIT	CONTENT	CL	Hrs	CO
	2.3 Forensic Methods for Determination of Metals and Gunshot Residue, Techniques for the Analysis of Inorganic Materials, Drugs of Abuse 2.4 Forensic Toxicology- Measurement of Blood, Alcohol Breath Test for Alcohol 2.5 Biological Fluids - Blood, Semen, Saliva. Forensic DNA Typing			
3.	Fire - Arson and Explosives 3.1 Firearms - Ammunition, Ballistics, Laboratory Examination of Firearm Evidence 3.2 Arson - Evidence from Fire affected Area – Combustible Burning Characteristics – Nature of Combustion 3.3 Explosives – Classification of explosives – low explosives and high explosives. Homemade explosives. Military explosives. Blasting agents, Synthesis and characteristics of TNT, PETN and RDX. Explosion process. Bomb scene management. Evidence from the Scene of Explosion, Post blast residue collection and analysis. Blast injuries. Detection of hidden explosives	K1- K3	10	1-3

BOOKS FOR STUDY

Bapuly A. K. *Forensic Science – Its Applications in Crime Investigation*. Hyderabad: Paramedical Publisher, 2006.

Sharma B. R. *Forensic Science in Criminal Investigation and Trials*. New Delhi: Universal Law Publication, 2006.

BOOKS FOR REFERENCE

Lee H. C., Palmbach T. and Miller M. C. *Henry Lee's Crime Scene Hand book*. Amsterdam: Elsevier Academic Press, 2001.

Houck R. M. M. and Siegel J. A. *Fundamentals of Forensic Science*. Amsterdam: Elsevier Academic Press, 2006.

Tilstone W. J., Hastrup M. L. and Hald C. *Fisher's Techniques of Crime Scene Investigation*. Boca Raton: CRC Press, 2013.

WEB RESOURCES

https://onlinecourses.swayam2.ac.in/cec20_ge10/preview

<https://www.nist.gov/forensic-science>

PATTERN OF ASSESSMENT

No End Semester Examination

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (MCQs/Match the following/Fill in the blanks)
B	K2	6	$3 \times 2 = 6$ marks
C	K3	9	$3 \times 3 = 9$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions

Other Component:

Total Marks: 25

Seminars / Quiz / Assignment / Group Discussions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**General Elective Course Offered by Department of Chemistry for
BA. /B.Sc. /B.Com./B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

CHEMISTRY IN EVERYDAY LIFE

CODE: 23CH/GE/CE22

CREDITS: 2

L T P: 2 0 0

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To impart knowledge about the chemicals used in everyday life
- To create an awareness about food additives and hazards of non-permitted food additives
- To introduce the chemistry and toxicology of cosmetics
- To promote interest in entrepreneurship in food products, nutraceuticals and cosmetics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define terms in food additives, pharmaceuticals and cosmetics	K1
CO2	explain the role and functions of food additives, pharmaceuticals and cosmetics in everyday life	K2
CO3	apply the concepts of food additives, pharmaceuticals and cosmetics in the maintenance of good health	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1.	Food Additives 1.1 Food Colours - Permitted and Non-Permitted, Artificial Sweeteners – Aspartame, Saccharin and Cyclamate, Preservatives - Natural and Synthetic, Flavours – Monosodium glutamate. 1.2 Stabilising and Suspending Agents - Gelatine, Pectin. Toxic Effects of Food Additives	K1-K3	9	1-3
2.	Pharmaceuticals and Nutraceuticals 2.1 Antimalarials, Antipyretics, Analgesics, Antiseptics, Antibiotics-Antacids, Antihistamines, Chemotherapy – Definition and Therapeutic Uses. Diabetes - Types and Causes 2.2 Nutraceuticals – Vitamins - Water and Fat Soluble, Minerals and Trace Elements, Antioxidants. Role of Nutraceuticals in Disease Prevention- Diabetes and Cancer	K1-K3	8	1-3

UNIT	CONTENT	CL	Hrs	CO
3.	Cosmetics 3.1 Skin Products, Soaps and Shampoos –Creams and Lotions, Lipstick and Hair Dye 3.2 Perfume – General Formulation, Deodorants and Antiperspirants 3.3 Toxicology of Cosmetics	K1-K3	9	1-3

BOOKS FOR STUDY

Mathew G. G. D. *Chemistry in Everyday Life*. Delhi: Vishal, 2014.

Swaminathan M. *Textbook on Food Chemistry*. Bangalore: Printing and Publishing, 2006.

BOOKS FOR REFERENCE

Chakrabarty B. N. *Industrial Chemistry*. New Delhi: Shiv Narain, 2002.

Sharma B. K. *Industrial Chemistry*. Meerut: GOEL Publishing House, 2000.

WEB SOURCES

<http://chemistry.about.com/od/everydaychemistry/>

<https://www.healthline.com/nutrition/12-foods-for-healthy-skin#The-bottom-line>

https://www.researchgate.net/publication/343585969_Chemistry_in_Everyday_Life

<http://chemistry-journal.org/download/Sunita-Bhargava/CHEMISTRY-JOURNAL-CHJV06I02P0192.pdf>

PATTERN OF ASSESSMENT

No End Semester Examination

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 × 1 = 10 (MCQs/Match the following/Fill in the blanks)
B	K2	6	3 x 2 = 6 marks
C	K3	9	3 x 3 = 9 marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions

Other Component:

Total Marks: 25

Seminars / Quiz / Assignment / Group Discussions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

INDUSTRIAL CHEMISTRY

CODE: 23CH/UI/IC23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To enable understanding of the classification and applications of fuels
- To introduce the steps involved in industrial waste management
- To facilitate understanding of paper and dye industries
- To present the properties and applications of synthetic polymers

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Outline the processes involved in fuels, waste treatment, synthetic polymers, oils and waxes and the paper and dye industries.	K1
CO2	Discuss the classification of fuels, industrial waste treatment methods, properties of synthetic polymers, oils and waxes, papers and dyes.	K2
CO3	Demonstrate the applications of fuels, waste disposal, oils and waxes, papers and dyes.	K3
CO4	Analyse the properties of fuels, methods used for waste disposal, recycling of polymers, types of oils, fats, soaps and waxes and environmental impact of the paper and dye industry.	K4
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse		

UNIT	CONTENT	CL	CO
1.	Fuels and Combustion 1.1 Introduction - Classification of fuels, characteristics of a good fuel. Calorific value of a fuel. Solid fuels-wood. 1.2 Coal - Classification of coal, analysis of coal and its significance 1.3 Liquid Fuels: Petroleum, cracking, advantages of catalytic cracking over thermal cracking, synthetic petrol	K1- K4	1-4
2.	Industrial Waste and Treatment Process 2.1 Types of industrial waste, treatment of disposal of industrial waste or effluent with organic and inorganic impurities.	K1- K4	1-4

UNIT	CONTENT	CL	CO
	2.2 Characterization of waste water by physical and chemical characteristics 2.3 Primary treatment: Sedimentation, neutralization, coagulation, equalization, grid removal. 2.4 Secondary treatment: Aerobic treatment, oxidation ponds, oxidation ditches, trickling filters, activated sludge process, aerated lagoons, anaerobic treatment. tertiary treatment: reverse osmosis, electrodialysis, desalination 2.5 Industrial Effluents: Characteristics and treatment options for effluents from various industries: Textiles and dyes, paper and pulp, leather, food and dairy, fertilizers, electroplating industries, distilleries 2.6 Sewage treatment 2.7 Water conservation, recycling of waste water and rain water harvesting		
3.	Synthetic Polymers 3.1 Requirement of a fibre, difference between natural fibre and synthetic fibre, properties 3.2 Applications of synthetic fibre – nitro cellulose, rayon, cuprammonium acetate, rayon, viscose rayon, nylon 66 and terylene. 3.3 Different types of plastics, recycling of plastics	K1- K4	1-4
4.	Oils, Fats, Waxes and Soaps 4.1 Distinction between oils and fats. Classification and properties of animal fats and oils. Difference between animal, vegetable and mineral oil, essential oils and classification of waxes 4.2 Soaps and detergents - classification, cleansing action of soaps and detergents. Enzymatic detergents, non-degradable and biodegradable detergents	K1- K4	1-4
5.	Papers and Dyes 5.1 Types of paper - paper stability, environmental impact of paper, applications of paper- thickness, weight and size of paper 5.2 Classification of dyes, general methods of applications of dyes on fibre 5.3 Dyes as food colours - yellow aniline dyes, metanil yellow, beta-oxalyl-amino alanine and lead chromate	K1- K4	1-4

BOOKS FOR STUDY

Mathew G. D. *Chemistry in Everyday Life*. Jalandhar-Delhi: Vishal Publishing, 2009.
 Sharma B. K. *Industrial Chemistry*. Meerut: GOEL Publishing House, 2016.

BOOKS FOR REFERENCE

Norris S. R. and Brink Jr. J. A. *Chemical Process Industries*. Kogakusha: McGraw-Hill, 2002.

Jain P. C. and Jain M. *Engineering Chemistry*. New Delhi: Dhanpat Rai Publications, 2001.

WEB RESOURCES

<https://beeindia.gov.in/sites/default/files/2Ch1.pdf>

<http://www.ignou.ac.in/upload/unit-3.pdf>

<http://www.epa.gov/waste/nonhaz/industrial/guide/index.htm>

<https://www.dyes-pigment.com/paper-industry.html>

PATTERN OF ASSESSMENT

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none">• Seven questions to be set• Six questions to be answered out of seven.• Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none">• Five questions to be set• Four questions to be answered out of five• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none">• Two questions to be set with either/or pattern• Questions can be set with or without subdivisions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SYLLABUS

(Effective from the academic year 2023-2024)

DRUGS AND DISEASES

CODE: 23CH/UI/DD23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To provide understanding of medicines used in everyday life
- To introduce the role of drugs in common diseases
- To facilitate understanding of the therapeutic uses of drugs

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Define important terms used in the study of Pharmaceutical Chemistry	K1
CO2	Describe common diseases and their treatment processes	K2
CO3	Illustrate the use of drugs in various health disorders	K3
CO4	Analyse different drugs based on their mechanism of action	K4
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse		

UNIT	CONTENT	CL	CO
1.	General Introduction to Drugs 1.1 Definitions: Pharmacy, Pharmacology, Pharmacodynamics, Pharmacokinetics, Antimetabolites, Bacteria, Virus, Fungi, Mutation, Pharmacognosy, Toxicology, Pharmacotherapeutics, Chemotherapy, Therapeutic Index 1.2 Classification of Drugs-Biological, Chemical and Commercial Classification, Prescribed Drugs and over-the Counter-Drugs. Side Effects and Contra Indications	K1- K4	1-4
2.	Common Diseases and their treatment by Drugs 2.1 Some Common Diseases: Insect Borne – Malaria; Air Borne Diseases – Whooping Cough, Measles, Common Cold and TB; Waterborne Diseases - Cholera, Typhoid, Dysentery - Aetiology, Symptoms, Prevention and Remedy	K1- K4	1-4

UNIT	CONTENT	CL	CO
	2.2 Some Common Disorders of the Digestive System – Jaundice; Respiratory System - Asthma; Nervous System - Epilepsy - Prevention and Treatment 2.3 Aids – Causes, Prevention and Treatment		
3.	Blood and Haematological Agents 3.1 Blood Pressure, Hypertension - Cause, Prevention and Treatment, Antihypertensive Agents – Aldomet and Reserpine 3.2 Clotting of Blood - Mechanism, Haematological Agents, Anaemia – Causes and Control, Anti-anaemic Drugs 3.3 Cardiovascular Diseases - Cardiac Glycosides – Digoxin, Antiarrhythmic Drugs - Quinidine - Dosage and Therapeutic uses, Calcium Blockers	K1- K4	1-4
4.	Drugs of Importance – I 4.1 Anaesthetics: Types - General – Nitrous Oxide, Ether, CHCl ₃ , Halothane; Local - Cocaine, Intravenous - Advantages and Disadvantages 4.2 Antiseptics and Disinfectants - (Phenols, Chloramines, Bleaching Powder, Boric Acid, Iodine, Zinc Oxide, Dyes-Crystal Violet) 4.3 Analgesics, Anti Pyretic and Anti-Inflammatory Agents - Narcotic and Non-narcotic drugs – Morphine. Source, Activity and uses of Pethadine, Aspirin, Paracetamol, Phenyl Butazone and Ibuprofen	K1- K4	1-4
5.	Drugs of Importance – II 5.1 Antibiotics - Classification - Therapeutic uses of Chloramphenicol, Penicillin - Streptomycin, Tetracyclines, Erythromycin, Amoxycillin, Ciprofloxacin 5.2 Antidepressants - Sedatives and Hypnotics - (Barbiturates), Types of Diabetes, Hypoglycaemic Agents, Sugar Substitutes 5.3 Antineoplastic Drugs - Types, Common Causes and Treatment of Cancer - Antineoplastic Agents; Antihistamines	K1- K4	1-4

BOOKS FOR STUDY

Ghosh J. *A Text Book of Pharmaceutical Chemistry*. New Delhi: Sultan Chand and Sons, 2014.

Chatwal G. R. *Pharmaceutical Chemistry, Vol I*. New Delhi: Himalaya Publishing, 2006.

BOOKS FOR REFERENCE

Lemke T. L. and Williams D. A. *Foye's Principles of Medicinal Chemistry*, 7th Ed. Maryland: Lippincott, Williams & Wilkins, 2013.

Patrick G. *An Introduction to Medicinal Chemistry*, 5th Ed., UK: Oxford University Press, 2013.

Block J. H. and Beale Jr. J. M. *Organic Medicinal and Pharmaceutical Chemistry*. Maryland: Lippincott, Williams & Wilkins, 2004.

WEB RESOURCES

http://www.rightdiagnosis.com/medical/hematologic_agent.htm

https://www.drugs.com/medical_conditions.html

<https://www.cdc.gov/antibiotic-use/common-illnesses.html>

<https://www.cdc.gov/ncbddd/blooddisorders/index.html>

PATTERN OF ASSESSMENT

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none">• Seven questions to be set• Six questions to be answered out of seven.• Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none">• Five questions to be set• Four questions to be answered out of five• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none">• Two questions to be set with either/or pattern• Questions can be set with or without subdivisions



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.Sc. Degree Branch V A
PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086

DEPARTMENT OF BOTANY

PROGRAMME DESCRIPTION

The B. Sc. Programme in Plant Biology and Plant Biotechnology offers a comprehensive blend of classical and contemporary branches in botany and biotechnology. The first year focuses on the study of the lower groups of plants and on the basics of biotechnology. The second year deals with an in-depth study of branches like taxonomy, anatomy and phytotherapy. The final year includes the study of genetics, ecology, cell and molecular biology, microbiology, physiology and applied biotechnology. Regular practical sessions with tests and examinations are held at designated times. On completion of the programme, the student will have a thorough knowledge of the subject in both theory and applications through practical work, which in turn will provide a platform for a promising career as well as higher studies in botany and biotechnology.

VISION OF THE DEPARTMENT

Encourage students to become self-reliant individuals and meet modern challenges with rich knowledge and experience through innovative research, teaching and learning in plant science.

MISSION OF THE DEPARTMENT

- To strengthen the teaching-learning process through innovative practice, scientific inquiry and the spirit of academic discovery.
- To instill values and provide holistic education to students with an enhanced focus on underprivileged communities.
- To provide excellent infrastructure and human resources to create a better educational environment.
- To impart entrepreneurial and life skill training in order to aid employability.
- To sensitise students to environmental challenges and the need to conserve natural resources

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

DEPARTMENT OF BOTANY

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.Sc. Plant Biology and Plant Biotechnology Programme, the students will be able to

PSO1	Comprehend the impact of plant science on society and the need to conserve the plant diversity
PSO2	Analyse, interpret and critically assess the utility of plants for the future health care and food production
PSO3	Identify and analyse the morphological structure, anatomical features and reproduction of the different forms of plant life
PSO4	Acquire sound knowledge and develop skills in recognizing, identifying and classifying plants and gain awareness on the biodiversity and ecosystems
PSO5	Demonstrate entrepreneurial and practical skills in advanced techniques in plant sciences and pursue research in plant science and plant biotechnology and equip the students to compete in various competitive examinations

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Sc. Plant Biology and Plant Biotechnology 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III														
Major Core	4	5	4	5	4	5	4	5	4	4	4	5	24	29
			3	4	3	4			4	5	4	4	14	17
									4	5	4	5	8	10
Major Practical	2	3	2	3	2	3	2	3	3	6	3	6	14	24
Allied Core	4	4	4	4	3	3	3	3					14	14
Allied Practical	1	2	1	2	2	3	2	3					6	10
	Offered by ZL dept.				Offered by CH dept.									
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	120
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3					3	3					6	6
Soft Skills (EL)	3	3											3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library													0	0
Mentoring													0	0
											Total		4	2
Total	26	30	25	30	24	30	25	30	24	30	25	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH V.A.-PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23BT/MC/AF14	Algae, Fungi and Lichens	4	4	1	0	3	50	50	100
23BT/MC/P112	Algae, Fungi and Lichens-Practical	2	0	0	3	3	50	50	100
Allied Core offered to students of Zoology by Dept. of Botany									
23BT/AC/GB14	General Botany I	4	4	0	0	3	50	50	100
23BT/AC/P111	General Botany I-Practical	1	0	0	2	3	50	50	100
23BT/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
23EL/SS/PD13	Life Skills:Personality Development	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
Allied Core offered to students of Botany by Dept. of Zoology									
23ZL/AC/GZ14	General Zoology I	4	4	0	0	3	50	50	100
23ZL/AC/P111	General Zoology I-Practical	1	0	0	2	3	50	50	100
SEMESTER-II									
23BT/MC/BP24	Bryophytes, Pteridophytes and Gymnosperms	4	4	1	0	3	50	50	100
23BT/MC/P222	Bryophytes, Pteridophytes and Gymnosperms-Practical	2	0	0	3	3	50	50	100
23BT/MC/BM23	Basics of Microbial Technology	3	3	1	0	3	50	50	100
Allied Core offered to students of Zoology by Dept. of Botany									
23BT/AC/GB24	General Botany II	4	4	0	0	3	50	50	100
23BT/AC/P221	General Botany II-Practical	1	0	0	2	3	50	50	100
23BT/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
Allied Core offered to students of Botany by Dept. of Zoology									
23ZL/AC/GZ24	General Zoology I	4	4	0	0	3	50	50	100
23ZL/AC/P221	General Zoology I-Practical	1	0	0	2	3	50	50	100
SEMESTER-III									
23BT/MC/TE34	Taxonomy of Angiosperms and Economic Botany	4	4	1	0	3	50	50	100
23BT/MC/PE33	Phytotherapy and Ethnobotany	3	3	1	0	3	50	50	100
23BT/MC/P332	Taxonomy of Angiosperms and Economic Botany-Practical	2	0	0	3	3	50	50	100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								

Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Allied Core offered to students of Botany by Dept. of Chemistry									
23CH/AC/FB33	Fundamentals of Biochemistry I	3	3	0	0	3	50	50	100
23CH/AC/P132	Biochemistry Practical I	2	0	0	3	3	50	50	100
SEMESTER-IV									
23BT/MC/AE44	Anatomy and Embryology of Angiosperms	4	4	1	0	3	50	50	100
23BT/MC/P442	Anatomy and Embryology of Angiosperms-Practical	2	0	0	3	3	50	50	100
23BT/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
	Major Elective I								
Allied Core offered to students of Botany by Dept. of Chemistry									
23CH/AC/FB43	Fundamentals of Biochemistry II	3	3	0	0	3	50	50	100
23CH/AC/P242	Biochemistry Practical II	2	0	0	3	3	50	50	100
SEMESTER-V									
23BT/MC/CM54	Cell and Molecular Biology	4	4	1	0	3	50	50	100
23BT/MC/MB54	Microbiology	4	4	1	0	3	50	50	100
23BT/MC/EE54	Ecology and Environmental Biotechnology	4	4	0	0	3	50	50	100
23BT/MC/P553	Cell and Molecular Biology, Microbiology, Ecology and Environmental Biotechnology-Practical	3	0	0	6	3	50	50	100
	General Elective III								
	SAP / SL								
Interdisciplinary Core (BT and CH) offered to students of Botany and Chemistry									
23ID/IC/BA55	Bioanalytical Techniques	5	5	1	0	3	50	50	100
SEMESTER-VI									
23BT/MC/PP64	Plant Physiology	4	4	1	0	3	50	50	100
23BT/MC/PB64	Plant Biotechnology	4	4	0	0	3	50	50	100
23BT/MC/GP64	Genetics, Plant Breeding and Evolution	4	4	1	0	3	50	50	100
23BT/MC/P663	Plant Physiology, Plant Biotechnology and Genetics, Plant Breeding and Evolution-Practical	3	0	0	6	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH V.A.-PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Major Electives									
23BT/ME/FN45	Fruit Preservation and Nutrition	5	5	0	0	3	50	50	100
23BT/ME/PR45	Project	5	0	0	5	-	50	50	100
23BT/ME/HC45	Horticulture	5	5	0	0	3	50	50	100
23BT/ME/BI45	Introduction to Bioinformatics	5	5	0	0	3	50	50	100
23BT/ME/BS45	Biostatistics	5	5	0	0	3	50	50	100
General Electives									
23BT/GE/HT22	Herbal Therapy	2	2	0	0	-	50	-	100
23BT/GE/FP22	Fruit Preservation	2	2	0	0	-	50	-	100
23BT/GE/FH22	Fundamentals of Horticulture	2	2	0	0	-	50	-	100
23BT/GE/WM22	Waste Mangement	2	2	0	0	-	50	-	100
23BT/GE/FR22	Floriculture	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness / Service Learning Course									
Social Awareness Courses									
23BT/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23BT/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23BT/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23BT/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23BT/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23BT/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23BT/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23BT/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23BT/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Service Learning Course (specific to the Department)									
23BT/SL/PP52	Plants and People	2	2	0	0	-	50	-	100
Independent Electives									
23BT/UI/AR23	Agriculture	3	0	0	0	3	-	100	100
23BT/UI/FR23	Forestry	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023-2024)

ALGAE, FUNGI AND LICHENS

CODE:23BT/MC/AF14

CREDITS:4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- recognize and appreciate the diversity of lower plants.
- outline the classification of Algae and Fungi.
- summarize the structure and life cycle patterns of selected forms of Algae, Fungi and Lichen.
- understand Lichen structure and reproduction, comprehend its symbiotic relationship and its uses.
- explore the economic importance of Algae, Fungi and Lichens.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and summarize the general characteristics and classification of Algae, Fungi and lichens	K1
CO2	explain and Illustrate the characteristic features, life cycle of forms prescribed in the syllabus	K2
CO3	analyse and differentiate the morphological, anatomical, reproductive and economic importance of selected Algae, Fungi and Lichens	K3
CO4	compare the life cycle of selected forms of Algae and Fungi	K4
CO5	discuss and compile the life cycle of selected forms of Algae and Fungi	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	ALGAE 1.1 General Characteristics of Algae 1.2 Classification of Algae (F.E. Fritsch, 1935) 1.3 Characteristics features of Algal Classes 1.4 Detailed study of the Thallus Organisation, Reproduction and Life cycle pattern of the following forms (excluding the developmental stages): Myxophyceae – <i>Nostoc</i> 1.5 Chlorophyceae – <i>Volvox</i> , <i>Chlorella</i> , <i>Cladophora</i> <i>Caulerpa</i> and <i>Chara</i>	K1 – K5	13	1-5
2	ALGAE 2.1 Bacillariophyceae – <i>Navicula</i> 2.2 Phaeophyceae – <i>Sargassum</i> 2.3 Rhodophyceae – <i>Gracilaria</i> 2.4 Economic importance of Algae	K1- K5	13	1-5
3	FUNGI 3.1 General Characteristics of Fungi 3.2 Classification of Fungi (Alexopoulos and Mims, 1979) 3.3 Characteristics features of Fungal classes 3.4 Detailed Study of the Thallus Organisation, Reproduction and Life Cycle Pattern of the following forms (excluding the developmental stages): Chytridiomycetes – <i>Synchytrium</i> 3.5 Plasmodiophoromycetes - <i>Plasmodiophora</i> 3.6 Oomycetes – <i>Albugo</i>	K1 – K5	13	1-5
4	FUNGI 4.1 Ascomycetes – <i>Aspergillus</i> , <i>Peziza</i> 4.2 Basidiomycetes - <i>Puccinia</i> , <i>Agaricus</i> 4.3 Economic importance of Fungi	K1- K5	13	1-5
5	LICHENS 5.1 General characteristics of Lichens 5.2 Classification of lichens 5.3 Structure and Reproduction – <i>Usnea</i> 5.4 Ecological importance of Lichens	K1- K5	13	1-5

BOOKS FOR STUDY

Sharma, O.P. Text book of Algae. New Delhi: Tata McGraw - Hill, 2011.

Sharma, O.P. Text book of Fungi. New Delhi: Tata McGraw – Hill, 2010.

BOOKS FOR REFERENCE

Alexopoulos, C. J. Introductory Mycology. New York: John Wiley, 1962.

Ashok Kumar Awasthi, Textbook of Algae, Vikas Publishing house, 2015.

Bhattacharya, Gopal. Textbook of Mycology. Agrotech., 2013.

Bilgrami, K.S. and Saha, L.C. A text book of Algae. CBS Publishers & Distributors Pvt. Ltd., New Delhi, 2012.

Bold, H. C. and M.J.Wynne. Introduction to Algae. New Delhi: Prentice Hall of India, 1979.

Bold, H.C. Morphology of Plants. New York: Harper & Row, 1973.

Chapman, V. J. and D. J. Chapman. The Algae. London: Macmillan, 1973.
 Dube, H.C. A Text Book of Fungi, Bacteria and Viruses. Agrobios India; 2022nd edition. Ingold, C. T. Biology of Fungi. London: Hutchinson Educational, 1993.
 Misra, A. and A. Agarwal. Lichens- A Preliminary Text. London: Oxford and IBH, 1978. Morris, I. An Introduction to Algae. London: Hutchinson University Library, 1967.
 Sharma, P.D. Fungi and Allied Organism. New Delhi: Narosa, 2005. Smith, G.M. Manual of Phycology. New York: McGraw-Hill, 1955.
 Vashista Sinha B.R and V.P. Singh. Botany for Degree students, Algae 9th revised ed. New Delhi: S.Chand, 2012.

JOURNALS

Algal Research (Elsevier)
 Algal Research (Science direct)
 International Journal on Algae Fungal Biology
 Fungal Diversity
 Phycologia

WEB RESOURCES

www.journals.elsevier.co
mwww.sciencedirect.com
www.springer.com

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6 = 6)
	K4 / K4	18 or 19	6 (1 x 6 = 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/AF14												
	Course Title: Algae, Fungi and Lichens												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	3	2	2	-	3	3	3	3	3
CO 2	3	3	2	1	3	2	2	-	3	3	3	3	3
CO 3	3	3	3	1	3	2	3	-	3	3	3	3	3
CO 4	3	3	2	1	3	2	3	-	3	3	3	3	3
CO 5	3	3	2	1	3	2	2	-	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023-2024)

ALGAE, FUNGI AND LICHENS-PRACTICAL

CODE: 23BT/MC/P112

CREDITS: 2

L T P:0 0 3

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

To enable the students to

- identify the microalgae in a mixture and to differentiate microscopic and macroscopic fungi
- classify the Algal, Fungal and Lichen forms based on morphology.
- acquire the skill of sectioning of Algal, Fungal and Lichen specimens
- examine and analyse the vegetative and reproductive structures of various forms of algal, Fungal and Lichen through microscopic preparations.
- acquire the skill of preparing herbarium

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify Algae, Fungi and Lichens using key identifying characters	K1
CO2	classify the Algal, Fungal and Lichen forms based on morphological features	K2
CO3	examine the morphological, anatomical and reproductive structure of Algae, Fungi and Lichens	K3
CO4	demonstrate the practical skills in preparation of fresh mount and identify the forms in Algae, Fungi and Lichens	K4
CO5	develop practical skills in identification of forms in Algae, Fungi and Lichens and acquire the skill of herbarium preparation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	ALGAE Morphological study of the following Algal forms – 1. Myxophyceae - <i>Nostoc</i> 2. Chlorophyceae - <i>Volvox</i> , <i>Chlorella</i> , <i>Cladophora</i> , <i>Caulerpa</i> and <i>Chara</i> 3. Bacillariophyceae - <i>Navicula</i> 4. Phaeophyceae - <i>Sargassum</i> 5. Rhodophyceae - <i>Gracilaria</i>	K1- K5	13	1-5
2	FUNGI Morphological study of the following Fungal forms - 1. Chytridiomycetes - <i>Synchytrium</i> 2. Plasmodioph oromycetes - <i>Plasmodiophora</i> 3. Oomycetes - <i>Albugo</i> 4. Ascomycetes – <i>Aspergillus</i> , <i>Peziza</i> 5. Basidiomycetes - <i>Puccinia</i> , <i>Agaricus</i>	K1- K5	13	1-5
3	LICHENS A general study of various types of Lichens – 1. Crustose 2. Foliose 3. Fruticose	K1- K5	13	1-5
4	FIELD TRIP & HERBARIUM 1. Field trip to observe the Algae, in its natural habitat and submission of herbarium sheets 2. Herbarium - Algal specimen (1sheet), Fungal infected plants (2 sheets) and photograph of as many Algae and Lichens to be submitted at the time of examination 3. Visit to Algal and Fungal industries to gain knowledge on their importance	K1- K5	13	1-5

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Section	Question	Marks Allotted	Cognitive Levels
A	Identification and Sectioning	16	K5
	Mounting and Slide submission	4	K4
B	Algal mixture	5	K3
C	Spotter (Algae, Fungi and Lichens)	15	K1
D	Submission of Record work	10	K2
Total		50	

End-Semester Examination:**Total Marks: 50****Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Levels
A	Identification and Sectioning	16	K5
	Mounting and Slide submission	4	K4
B	Algal mixture	5	K3
C	Spotter (Algae, Fungi and Lichens)	15	K2
D	Spot at sight (Algae, Fungi and Lichen)	6	K1
E	Herbarium submission	4	K2
Total		50	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/P112												
	Course Title: Algae, Fungi and Lichens- Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	-	3	3	3	3	3
CO 2	3	3	2	2	3	2	3	-	3	3	3	3	3
CO 3	3	3	2	2	3	2	3	-	3	3	3	3	3
CO 4	3	3	2	2	3	2	3	-	3	3	3	3	3
CO 5	3	3	3	2	3	2	3	-	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

GENERAL BOTANY I

CODE: 23BT/AC/GB14

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to

- Describe the morphological and anatomical features Algae and Fungi
- Elucidate the life cycle patterns of lower plants
- Recollect and summarize the principles of plant systematics
- Identify and classify the various types of plant diseases
- Familiarize and appreciate the importance of sustainable agriculture

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and explain the general characteristics of Algae and Fungi, identify the plant diseases of crop plants; to explore suitable control measures, derive the family and describe them in technical terms and list the agricultural practices	K1
CO2	illustrate the structural details of lower forms, identify the causal organisms of plant diseases, assign the plants to the respective families, summarize the cultural practices in agriculture.	K2
CO3	analyse the vegetative and reproductive structure of Algae and Fungi; categorize the common plant diseases and their control measures	K3
CO4	construct and compare the life cycle patterns of Algae, Fungi and flowering plants; Evaluate the characteristics of flowering plants, summarize the practices involved in sustainable agriculture.	K4
CO5	compile the characteristic features of Algae, Fungi and Angiosperms; Explore and appreciate the economic value of Angiosperm	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Algology 1.1 Salient features of Algae 1.2 A detailed study of the Life Cycle of the following Algae (no development) a. <i>Nostoc</i> b. <i>Chara</i> c. <i>Sargassum</i>	K1- K5	10	1-5
2	Mycology 2.1 Salient features of Fungi 2.2 A detailed study of the Life Cycle of the following Fungi (no development) a. <i>Rhizopus</i> b. <i>Aspergillus</i> c. <i>Agaricus</i>	K1- K5	10	1-5
3	Plant Pathology 3.1 A study of the causal organism, symptoms and control measures of the following plant diseases: a. Citrus Canker b. Leaf curl of Papaya c. Red Rot of Sugarcane	K1- K5	10	1-5
4	Taxonomy 4.1 A general outline of Bentham and Hooker's Classification 4.2 A study of the salient features of the following families and their economic Importance: a. Annonaceae b. Cucurbitaceae c. Apocynaceae d. Lamiaceae e. Euphorbiaceae f. Musaceae	K1- K5	11	1-5
5	Agricultural practices 5.1 Preparation of Soil 5.2 Organic Farming 5.3 Biofertilizer 5.4 Biopesticides – Bacterial and Plant based 5.5 Mushroom Cultivation- Oyster	K1 –K5	11	1-5

BOOK FOR STUDY

Rao, K. N. and R.V.Narayanaswamy. Ancillary Botany. Madras: S.Vishwanathan, 1986.

BOOKS FOR REFERENCE

Bhattacharya Gopal, Textbook of Mycology. Agrotech, 2013.

Bhattacharyya.P and Purohit.S.S. Organic Farming Biocontrol and Biopesticide technology. Agrobios India, 2012.

Chopra, G.L., A Text book of Fungi, Meerut, India: S.Nagin & Co. Pandey B.P., College Botany. Vol. I Fungi & Pathology. 1997.

Pandey, B.P. Text Book of Botany Algae, New Delhi: S.Chand, 2000.

Pandey, B. P., Taxonomy of Angiosperm, S. Chand & Company, 2015.

Sharma, O.P., Text Book of Algae, New Delhi: Tata McGraw Hill, 1992.
 Sharma, O.P. Text book of Fungi, New Delhi: Tata McGraw – Hill, 2010.
 Sharma, O. P., Plant Taxonomy, McGraw Hill Education, 2017.
 Shrivastava A.K. Agriculture Science and Technology., Agrotech., 2013.
 Vashista B.R., Sinha P and Singh V., New Delhi: Botany for Degree students, Algae, S.Chand, 2010.
 Vashista B.R. New Delhi: Botany for Degree Students – Fungi, S.Chand. 1982.

JOURNALS

International Journal of Algae
 Fungal Biology
 Journal of Botany
 Journal of Natural Area Journal

WEB SOURCES

www.springer.com/life+science

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10(10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20(1 x 20 = 20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice)Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6= 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice)Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/AC/GB14												
	Course Title: General Botany - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

GENERAL BOTANY I – PRACTICAL

CODE: 23BT/AC/P111

CREDITS: 1

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable the students to

- Identify and describe the morphological, anatomical and reproductive structures of lower plants
- Observe and differentiate the morphological and anatomical features of Algae, Fungi through permanent slides
- Identify the plant pathogen through visualization of infected parts of the plants
- Assign and classify the plants to respective families based on the characters
- Dissect and describe the plants in technical terms and familiarise and appreciate the importance of sustainable agricultural practices

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect and summarize the general characteristics of Algae and Fungi; Identify plant disease; observe salient features of plants belonging to different families	K1
CO2	examine the Taxonomic characters of Angiosperms; Illustrate the vegetative and reproductive structures of Algae and fungi; Distinguish the plant disease based on symptoms.	K2
CO3	dissect the floral parts of the given Angiospermic plants; compare and analyse the structure of Algae and Fungi.	K3
CO4	summarize the characters of Algae and Fungi; compare the salient features of Angiospermic families	K4
CO5	develop the skill of observation by visualising morphological, anatomical structures of Algae and Fungi; Construct floral diagram and floral formula for the families; apply the concept of sustainability in agriculture	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	ALGAE Identification, Observation and Sketching of the following Algal forms - 1. <i>Nostoc</i> 2. <i>Chara</i> 3. <i>Sargassum</i>	K1- K5	6	1-5
2	FUNGI Identification, Observation and Sketching of the following Fungal forms - 1. <i>Rhizopus</i> 2. <i>Aspergillus</i> 3. <i>Agaricus</i> PLANT PATHOLOGY Identification, observation and sketching of the following- 1. Citrus Canker 2. Leaf curl of papaya 3. Red Rot of Sugarcane	K1- K5	8	1-5
3	TAXONOMY 3.1 Derivation (Assign the plants to their respective families) 3.2 Description in Technical Terms of Plants belonging to the Families mentioned in the syllabus 3.3 Dissection of flowers, observation and sketching of floral Parts, construction of floral diagram and floral formula	K1- K5	10	1-5
4	AGRICULTURAL PRACTICES Demonstration of microbial quality of the Biofertilizers available in the market (<i>Rhizobium</i> and <i>Azospirillum</i> , <i>Azotobacter</i>)	K1- K5	2	1-5

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Section	Question	Marks Allotted	Cognitive Level
A	Dissection of floral parts	15	K5
B	Derivation of family	5	K4
C	Spotter (Algae, Fungi, Plant Pathology and Agricultural practices)	20	K1-K3
D	Practical record submission	10	K2
Total		50	

End-Semester Examination:**Total Marks: 50****Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Level
A	Dissection of floral parts	15	K5
B	Derivation of family	5	K4
C	Spotter I (Algae and Fungi)	20	K3
D	Spotter II (Plant pathology and Agricultural practices)	10	K1-K2
Total		50	

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BT/AC/P111												
	Course Title: General Botany – I - Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23BT/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

- 1.1.1 **Six tastes** – Natural guide map towards proper nutrition
- 1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes rint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group Discussions

Group Presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course offered by the Department of English for
B.A / B.Sc. / B.Com. / B.V.A/. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Self-Awareness 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	Personal Effectiveness 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	Charting the Future 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment:**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied core Offered by the Department of Zoology to Students
of Plant Biology and Biotechnology**

SYLLABUS

(Effective from the academic year 2023-2024)

GENERAL ZOOLOGY I

CODE: 23ZL/AC/GZ14

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable students to

- comprehend the characteristic features, structural organisation, economic importance and conservation of Protozoans, Coelenterates, Platyhelminthes and Aschelminthes
- comprehend the characteristic features, structural organisation, and economic importance of Annelids, Arthropods, Molluscs and Echinoderms
- comprehend the salient features, structural organisation and behaviour of Prochordates, Agnathans and Fishes
- comprehend the characteristic features, structural organisation and conservation of Amphibians, Reptiles and Birds
- comprehend the characteristic features, structural organisation and adaptations of Mammals

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall the characteristic features and outline classification of Invertebrates and Chordates	K1
CO 2	describe the structural and functional organisation of Invertebrates and Chordates	K2
CO 3	apply the acquired knowledge to identify specific adaptations and the causes, mode of transmission, symptoms and preventive measures of various diseases	K3
CO 4	analyse the specific adaptations, behaviours and various threats to some animals and strategies for their conservation	K4
CO 5	evaluate the economic importance and biological significance of animals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction: Outline Classification of Animal Kingdom 1.2 Protozoa: Characteristic Features - Type: <i>Paramecium caudatum</i> 1.3 Coelenterata: Characteristic Features - Corals and Coral Reefs – Conservation and Economic Importance 1.4 Platyhelminthes & Aschelminthes: Characteristic Features - Helminth Parasites in relation to Human Welfare: Causative Organism, Life Cycle, Mode of Transmission, Symptoms & Prophylaxis of the following: <i>Taenia solium</i> , <i>Ascaris lumbricoides</i> and <i>Enterobius vermicularis</i>	K1 K1 – K5 K1 – K5 K1 – K5	10	CO 1 - 5
2	2.1 Annelida: Characteristic Features - Vermitechnology: Vermiculture, Vermicomposting, Vermiwash and Setting up of Vermiculture. 2.2 Arthropoda: Characteristic Features - Mode of Infection and Diseases caused by the following Vectors: <i>Aedes sp.</i> , <i>Pediculus sp.</i> , <i>Musca domestica</i> - Social Life in Insects 2.3 Mollusca: Characteristic Features – Economic Importance 2.4 Echinodermata: Characteristic Features - Type: <i>Asterias sp.</i>	K1 – K5 K1 – K5 K1–K5 K1 – K5	11	CO 1 - 5
3	3.1 Prochordata: Characteristic Features of Cephalochordata, Hemichordata and Urochordata- Affinities of Hemichordata 3.2 Agnatha: Characteristic Features 3.3 Pisces: Characteristic Features – Parental Care and Migration in Fishes	K1 – K5 K1 K1 – K5	9	CO 1 - 5
4	4.1 Amphibia and Reptilia: Characteristic Features 4.2 Snakes of South India - Turtle Conservation 4.3 Aves: Characteristic Features – Types of Feathers - Flight Adaptations	K1 K1 – K5 K1 – K5	10	CO 1 - 5
5	5.1 Mammalia: Characteristic Features 5.2 Type: <i>Oryctolagus cuniculus</i> 5.3 Aquatic Mammals	K1 K1 – K5 K1 – K5	12	CO 1 - 5

BOOK(S) FOR STUDY

Ayyar, E. M. & Ananthakrishnan, T. N. (2016). *Manual of Zoology*. Vols. I & II
 Madras: S. Viswanathan.

BOOKS FOR REFERENCE

Ali, M. S., Raju, S. V. S. & Alam, M. R. T. (2015). *A Textbook of Fundamental and Applied Entomology*. New Delhi. Kalyani.
Dhami, P. S. & Dhami J.K. (2015). *Invertebrate Zoology*. New Delhi: S. Chand.
Ismail, S.A., The Earthworm Book. Goa: India, 2005
Jordan, E.L. (2012). *Invertebrate Zoology*. New Delhi: S. Chand.
Jordan, E.L. & Verma, P.S. (2013). *Chordate Zoology*. New Delhi: S. Chand.
Kotpal, R. L. (2020). *Modern Textbook of Zoology: Invertebrates*. Meerut: Rastogi.
Kotpal, R. L. (2019). *Modern Textbook of Zoology: Vertebrates*. Meerut: Rastogi.
Nair, N. C., Thangamani, A., Leelavathy, S., Prasannakumar, S., Soundarapandian, N., Murugan, T., Narayanan, L. M and Arumugam N. (2013). *Animal Diversity (Invertebrata and Chordata)*. Nagarcoil Saras.
Singh, H. P. & Rastogi, P. (2016). *Parasitology*. Meerut: Rastogi.
Springer, J.T. & Holley, D. (2013). *An Introduction to Zoology: Investigating the Animal World*. Massachusetts. Jones & Bartlett Learning.

JOURNALS

Journal of Animal Science
Open Journal of Animal Sciences

WEB RESOURCES

www.sanctuaryasia.com
www.iaszoology.com
<http://www.earthlife.net>
Edx course on corals-<https://www.edx.org/course/tropical-coastal-ecosystem-8>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the zoological name)	K1	1 - 5	10 (5 x 2 = 10)
B (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	6 - 10	10 (5 x 2 = 10)
C (Internal choice) Essay	K3 / K3	11 or 12	10 (1 x 10 = 10)
	K4 / K4	13 or 14	10 (1 x 10 = 10)
D (Internal choice) Paragraph	K5 / K5	15 or 16, 17 or 18	10 (2 x 5 = 10)
Total			50

Other Components:

Total Marks: 50

Quiz / Assignment / Poster presentation / Scrap book / Illustration assignment

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the zoological name)	K1	1 - 10	20 (10 x 2 = 20)
B (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 - 20	20 (10 x 2 = 20)
C (Two questions at each level with Internal choice) Essay	K3 / K3	21 or 22, 23 or 24	20 (2 x 10 = 20)
	K4 / K4	25 or 26, 27 or 28	20 (2 x 10 = 20)
D (Four questions with Internal choice) Paragraph	K5 / K5	29 or 30, 31 or 32, 33 or 34, 35 or 36	20 (4 x 5 = 20)
Total			100

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/AC/GZ14												
	Course Title: General Zoology I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	2	2	1	-	-	-	-	-
CO 2	3	2	3	2	2	2	2	1	-	-	-	-	-
CO 3	3	3	3	2	2	2	3	1	-	-	-	-	-
CO 4	3	3	3	2	2	2	3	1	-	-	-	-	-
CO 5	3	3	3	2	2	2	3	1	-	-	-	-	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Offered by the Department of Zoology to Students
of Plant Biology and Biotechnology**

SYLLABUS

(Effective from the academic year 2023 - 2024)

GENERAL ZOOLOGY I-PRACTICAL

CODE: 23ZL/AC/P111

CREDITS: 1

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable students to

- understand and examine the morphology and anatomy of invertebrate and chordate specimens through dissection, simulation and audio - visual demonstrations
- mount the mouthparts of insects and different types of scales of fishes
- identify and classify invertebrate and chordate specimens based upon their distinctive characteristics
- identify various parasites and insect vectors based on their distinctive features and life cycle
- familiarize students with the habits and habitat of invertebrate and chordate fauna of the campus and create awareness on biodiversity conservation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall and identify various Invertebrates and Chordates based on their distinctive characteristics and biological significance	K1, K2
CO 2	associate and illustrate the location and organization of organs and organ systems in Invertebrates and Chordates	K3
CO 3	apply the knowledge to compare the structure, functions and adaptations of various Invertebrates and Chordates	K4
CO 4	analyze the structural and functional organization of Invertebrates and Chordates	K5
CO 5	compile a document of campus fauna and use practical skills for displaying the dissections and mounts	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	<u>DISSECTIONS</u> <i>Periplaneta americana</i> / Prawn - Digestive system, Nervous system <u>Computer Simulated Dissection</u> Invertebrata - Earthworm; Chordata - Frog	K3- K6	8	CO 2-5
2	<u>MOUNTS</u> Mouth parts: Mosquito and Housefly Scales: Ctenoid Scale - Mullet, Placoid Scales - Shark and Cycloid Scales - Carp	K4- K6	6	CO 3-5
3	<u>SPOTTERS</u> <u>Identification and description of the following Invertebrates and Chordates</u> Protozoa : <i>Paramecium caudatum</i> Coelenterata : <i>Hydra sp.</i> , <i>Tubipora sp.</i> and <i>Meandrina sp.</i> Annelida : <i>Hirudinaria sp.</i> and <i>Nereis sp.</i> Arthropoda : <i>Palamnaeus sp.</i> and <i>Penaeus indicus</i> Mollusca : <i>Sepia</i> , <i>Ostrea sp.</i> and <i>Xancus sp.</i> Echinodermata: <i>Asterias sp.</i> , <i>Holothuria sp.</i> Prochordata : <i>Amphioxus sp.</i> , and <i>Ascidia sp.</i> Pisces : <i>Scoliodon sp.</i> and <i>Notopterus sp.</i> Amphibia : <i>Duttaphrynus melanostictus</i> and <i>Ambystoma sp.</i> Reptilia : <i>Chameleon sp.</i> , <i>Naja naja</i> and <i>Hydrophis</i> Aves : <i>Dinopium sp.</i> and <i>Psittacula sp.</i> Mammalia : <i>Manis sp.</i> and Bat	K1- K3	6	CO 1-2
4	<u>SPOTTERS</u> <u>Observation and identification of the following Parasites</u> <i>Entamoeba histolytica</i> , <i>Taenia solium</i> and <i>Ascaris lumbricoides</i> <u>Observation and identification of the following Vectors</u> <i>Anopheles sp.</i> , <i>Aedes sp.</i> , <i>Pediculus sp.</i> , <i>Xenopsylla cheopis</i> and <i>Cimex sp.</i>	K1- K3	3	CO 1-2
5	<u>OBSERVATION AND DOCUMENTATION</u> Identification of any five invertebrate and five chordate fauna in the SMC Campus (Observation of habit, habitat and adaptive features)	K5, K6	3	CO 4-5

Record Work

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Section	Question	Cognition Levels	Marks Allotted
A	Major Dissection	K3, K4, K5, K6	20
B	Minor Dissection/Mount	K4, K5, K6	15
C	Spotter	K1, K2, K3	15
Total			50

Other Components:

Total Marks: 50

Component	Cognition Levels	Marks allotted
Documentation of fauna	K5, K6	20
Observation Book and Record	K1, K2, K3, K4	30
Total		50

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Section	Question	Cognition Levels	Marks Allotted
A	Major Dissection	K3, K4, K5, K6	20
B	Minor Dissection/Mount	K4, K5, K6	15
C	Spotter	K1, K2, K3	15
Total			50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/AC/P111												
	Course Title: General Zoology I-Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 2	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 3	3	3	3	2	2	3	2	1	-	-	-	-	-
CO 4	3	3	3	2	2	3	1	1	-	-	-	-	-
CO 5	3	3	3	2	2	3	2	1	-	-	-	-	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

BRYOPHYTES, PTERIDOPHYTES AND GYMNOSPERMS

CODE: 23BT/MC/BP24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- recognize and appreciate the diversity of cryptogams
- outline the classifications of Bryophytes, Pteridophytes and Gymnosperms
- summarize the structure and life cycle patterns of selected forms of Bryophytes, Pteridophytes and Gymnosperms
- understand the Geological Time Scale, types of fossils and fossilization, stelar evolution, heterospory and seed habit
- explore the ecological and economic importance of Bryophytes, Pteridophytes and Gymnosperms

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and recognize the general characteristics, classification, life cycle patterns, fossil forms in Bryophytes, Pteridophytes and Gymnosperms	K1
CO2	distinguish the salient features of Bryophytes, Pteridophytes and Gymnosperms and compare types of fossilization, stelar evolution, heterospory, seed habit and their ecologic and economic importance	K2
CO3	illustrate the characteristic features and reproduction of selected forms of Bryophytes, Pteridophytes and Gymnosperms and apply the knowledge on the study of fossils, life cycles, stelar evolutions and their uses	K3
CO4	analyze the morphology, anatomy, reproduction in Bryophytes, Pteridophytes and Gymnosperms and compare the geological time scale, various fossil forms and stelar evolution with their ecological and economic importance	K4
CO5	compare the salient features, fossil forms and life cycles of Bryophytes, Pteridophytes and Gymnosperms with stelar evolution, heterospory and seed habit.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Bryophytes 1.1 Classification of Bryophyta (Proskauer, 1957) Characteristic features of classes – Hepaticopsida- Anthocerotopsida and Bryopsida 1.2 A Detailed Study of the Thallus Structure, Anatomy and Reproduction of the following (no developmental study) Hepaticopsida – <i>Marchantia</i> , Anthocerotopsida - <i>Anthoceros</i> and Bryopsida- <i>Polytricum</i>	K1-K5	13	1-5
2	Pteridophytes 2.1. Classification of Pteridophyta (Reimers, 1954) 2.2 Characteristic features of classes Lycopsida, Sphenopsida and Pteropsida 2.3. A Detailed Study of the Plant Body, Anatomy and Reproduction of the following: (no developmental study): Lycopsida – <i>Lycopodium</i> and Pteropsida – <i>Marsilea</i> 2.4 Stellar Evolution	K1- K5	13	1-5
3	Gymnosperms 3.1 Classification of Gymnospermae (Bierhorst, 1971) 3.3 Characteristic features of classes 3.3 A Detailed Study of the Plant Body, Anatomy and Reproduction of the following (no developmental study): Cycadopsida – <i>Cycas</i> , Coniferopsida – <i>Pinus</i> and <i>Gnetum</i>	K1- K5	13	1-5
4	Fossils 4.1 Introduction and Geological Time Scale 4.2 Types of Fossils and Fossilization: Compression, Impression, Incrustation, Petrification and Compaction 4.3. Fossil forms – Bryophytes – <i>Nanniatidita</i> (whole structure) Pteridophyta: <i>Lepidodendron</i> , <i>Calamitis</i> <i>Lepidostrobus</i> and Gymnosperms: <i>Williamsonia</i>	K1- K5	13	1-5
5	Life Cycle Patterns and Economic Importance 5.1 Life cycle patterns in Bryophytes, Pteridophytes and Gymnosperms 5.2 Heterospory and Seed Habit 5.3 Ecological and Economic importance	K1- K5	13	1-5

BOOK FOR STUDY

Pandey, S.N, P.S Trivedi and A Misra. *A Textbook of Botany Vol II- Bryophytes, Pteridophytes and Gymnosperms*. New Delhi: Vikas, 2016.
 Sambamurthy AVSS *A Textbook of Bryophytes, Pteridophytes, Gymnosperms and Paleobotany*. IK International Publishing House Pvt.Ltd. 2005

BOOKS FOR REFERENCE

BRYOPHYTES

- Smith, G.M. *Cryptogamic Botany* Vol II. London: McGraw Hill, 2006.
Rashid A, *An introduction to Bryophyta*, Vikas Publishing, Delhi.
2006. Srivastava, H.N. *Bryophytes*. India: Pradeep, 2007.
Prem Puri, *Bryophytes – Morphology, Growth and Differentiation* Delhi: Atma Ram,
2011. Vashista, P.C., *Botany for Degree Students* Vol. IV, New Delhi: S.Chand, 2016.

PTERIDOPHYTES

- Arnold, C.A., *An Introduction to Palaeobotany*, McGraw Hill, 2008.
Vashishta PC, Sinha AK, Anil Kumar. *Botany for Degree students Pteridophyta*.
S.Chand and Company Ltd. New Delhi. 2010.
Sporne KR. *The morphology of Pteridophytes; the structure of Ferns and Allied
Plants*. Franklin Classics. 2018
Sporne, K.R. *Morphology of Pteridophytes*. New Delhi: B.I,
2023. Sharma. O.P. *Pteridophyta*, McGraw Hill, 2012.

GYMNOSPERMS

- Vashishta PC, Sinha AK, Anil Kumar. *Botany for Degree students Gymnosperms*. S.
Chand and Company Ltd. New Delhi. 2010
Sporne KR.. *The morphology of Gymnosperms*. Scientific Publishers, Jodhpur. 2015.
Srivastava, H.N. *Gymnosperms*. India: Pradeep, 2004.
Arnold AC. *An Introduction to Paleobotany*. Read Books Publisher. 2008

WEB RESOURCES

BRYOPHYTES

www.cpbr.gov.au/bryophytes
www.britannica.com
www.csun.edu
www.scilinks.org
blogs.ubc.ca

PTERIDOPHYTES

www.uwgb.edu
www.hardyferns.org

GYMNOSPERMS

www.conifers.org
Wikipedia.org/wiki/gymnosperms
mswww.exploringnature.org

JOURNALS

BRYOPHYTES

Annals of Botany
Systematic Botany
Journal of bryology
Journal of Botany

PTERIDOPHES

A Journal of Botanical Nomenclature
Current Biology
American Journal of Plant Sciences
Natural Areas Journals
The British Fern Gazette
American Fern Journal

GYMNOSPERMS

Journal of Botany
Canadian Journal of Botany
Nordic Journal of Botany

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6 = 6)
	K4 / K4	18 or 19	6 (1 x 6 = 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/BP24												
	Course Title: Bryophytes, Pteridophytes and Gymnosperms												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

BRYOPHYTES, PTERIDOPHYTES AND GYMNOSPERMS – PRACTICAL

CODE:23BT/MC/P222

CREDITS: 2

L T P: 0 0 3

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

To enable the students to

- Gain expertise in hand sectioning techniques.
- Study the diversity of Bryophytes, Pteridophytes and Gymnosperms.
- Understand the morphological and anatomical structure of Bryophytes, Pteridophytes and Gymnosperms.
- Develop comprehensive skill in micro slide preparation.
- Gain insight into the fossil forms prescribed in the syllabus.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the forms of Bryophytes, Pteridophytes and Gymnosperms based on their morphological identity.	K1
CO2	understand and recognize the major group of non-vascular and non-cryptogams	K2
CO3	illustrate the structural variation in fossil forms.	K3
CO4	identify and illustrate the morphological and anatomical features Bryophytes, Pteridophytes and Gymnosperms.	K4
CO5	assess the skill of hand sectioning; evaluate the micro slide preparation and art of drawing; and interpret the key characters.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	BRYOPHYTES 1. Hepaticopsida – <i>Marchantia</i> 2. Anthocerotopsida - <i>Anthoceros</i> 3. Bryopsida - <i>Polytrichum</i>	K1-K5	10	1-5

UNIT	CONTENT	CL	Hrs	CO
2	PTERIDOPHYTES 1. Lycopsidea – <i>Lycopodium</i> 2. Sphenopsida - <i>Equisetum</i> 3. Pteropsida - <i>Marsilea</i>	K1- K5	9	1-5
3	GYMNOSPERMS 1. Cycadopsida – <i>Cycas</i> 2. Coniferopsida – <i>Pinus</i> 3. Gnetopsida - <i>Gnetum</i>	K1- K5	10	1-5
4	FOSSILS Forms mentioned in the syllabus 1. Bryophytes - <i>Naiadita</i> 2. Pteridophytes – <i>Lepidodendron</i> , <i>Lepidostrobus</i> and <i>Calamites</i> 3. Gymnosperms - <i>Williamsonia</i>	K1- K5	10	1-5

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Level
A	Spot at sight (Bryophytes, Pteridophytes and Gymnosperms)	6	K1&K2
B	Spotter (Bryophytes, Pteridophytes, Gymnosperms and Fossils)	20	K3
C	Record Submission	10	K4
D	Identification, Sectioning, Mounting and Slide submission (Bryophytes, Pteridophytes, Gymnosperms)	14	K5
Total		50	

End-Semester Examination: **Total Marks: 50** **Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Level
A	Spot at sight (Bryophytes, Pteridophytes and Gymnosperms)	6	K1&K2
B	Spotter (Fossil Forms mentioned in the syllabus)	5	K3
C	Spot at sight (Bryophytes, Pteridophytes and Gymnosperms)	15	K4
D	Identification, Sectioning, Mounting and Slide submission (Bryophytes, Pteridophytes and Gymnosperms)	24	K5
Total		50	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: : 23BT/MC/P222												
	Course Title: Bryophytes, Pteridophytes and Gymnosperms- Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

BASICS OF MICROBIAL TECHNOLOGY

CODE: 23BT/MC/BM23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to

- understand the potential of microbes in Industrial Biotechnology
- gain insights on large scale production of fermentation products
- familiarize the operations involved in the types of fermentors and culture media
- understand the process related to food industry
- demonstrate the steps involved in the production of novel and healthy foods

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and define the significance of microbes in food, dairy and fermented products	K1
CO2	compare and classify the various products from microbes and the types of fermenters	K2
CO3	identify the various aspects of microbial technology and apply the knowledge to cultivate the novel and healthy foods	K3
CO4	categorize the principles of fermentation and analyse products from microbial industries	K4
CO5	evaluate to process of fermentation technology and compile the cultivation, processing, purification and application of food, dairy and fermented products	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Microbial Technology 1.1 Scope of Microbial Technology 1.2 Fermentation: Media composition, Media formulation and Media optimisation 1.3 Principles of Fermentation: Submerged, Solid state, Batch, Fed-batch & Continuous culture 1.4 Structure and types of Fermenter	K1-K5	11	1-5
2	Fermented Foods-I 2.1 Probiotics- Benefits and Advantages 2.2 Manufacture of Yoghurt 2.3 LAB and their importance in Health and Medicine 2.4 Nutraceuticals and their Importance	K1-K5	11	1-5
3	Fermented Foods- II 3.1 Manufacture of Cheese 3.2 Types of Cheese: Cheddar, Camembert and Roquefort 3.3 Mould Fermentation- Preparation of Soysauce 3.4 Fermented Vegetable: Preparation of Sauerkraut	K1-K5	10	1-5
4	Agricultural Biotechnology 4.1 Genetically Modified Food - Bt brinjal & Bt cotton 4.2 Single Cell Protein- <i>Spirulina</i> 4.3 Algal Biofertilizers	K1-K5	10	1-5
5	Fermentation Technology 5.1 Penicillin Production 5.2 Citric Acid Production 5.3 Vitamin B ₁₂ 5.4 Enzymes : Amylase	K1-K5	10	1-5

BOOKS FOR STUDY

Prescott S.C., Dunn C.G., Reed G. *Prescott & Dunn's Industrial Microbiology*, 4th edition, AVI publication, USA, 2022.

BOOKS FOR REFERENCE

Pelczar M.J., Chan E.C.S. and Krieg N.R., *Microbiology*. 5th Edition, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2023

Patel, A.H. *Industrial Microbiology*. New Delhi: Macmillan, 2015.

Reddy, S. M., *Basic Fermentation Technology*, Chennai, New Age International Publishers, 2017

Reddy, S. M., *Basic Food Science and Technology*, Chennai, New Age International Publishers, 2015.

Cassida. L. E., (jr.), *Industrial Microbiology*, Wiley Eastern Ltd., New York, 1989.

JOURNALS

Algae Biotechnology

Journal of Industrial Microbiology and Biotechnology

World Journal of Microbiology & Biotechnology

Central European Journal of Biology

Bioprocess and Bio systems Engineering

WEB SOURCES

www.ibab.ac.in

www.springer.com

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6= 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice)Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/BM23												
	Course Title: Basics of Microbial Technology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	2	3	3	2	2	3
CO 2	3	3	3	2	3	2	3	2	3	3	2	2	3
CO 3	3	3	3	2	3	2	3	2	3	3	2	2	3
CO 4	3	3	3	2	3	2	3	2	3	3	2	3	3
CO 5	3	3	3	2	3	2	3	2	3	3	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE:
BRANCH V. A. PLANT BIOLOGY AND PLANTBIOTECHNOLOGY**

SYLLABUS
(Effective from the academic year 2023–2024)

GENERAL BOTANY II

CODE: 23BT/AC/GB24

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to

- describe the morphological, anatomical and reproductive feature of lower plants
- identify the life cycle patterns of Bryophytes, Pteridophytes and Gymnosperms
- study the internal structure of higher and lower plants
- explain the functional mechanism of higher plants
- explore the basic techniques in horticulture

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the salient features recall the anatomy of lower plants and Angiosperms; Physiology and list the various Horticulture techniques.	K1
CO2	explain the stages life cycle of lower forms; distinguish the anatomical characters; describe physiological concepts and demonstrate the techniques in Horticulture.	K2
CO3	relate the distinguishing characters of lower and higher forms of plants; illustrate the functional mechanism of higher plants and apply the knowledge on Horticultural practices	K3
CO4	categorise the lifecycle patterns of lower forms; differentiate and explain the internal features of angiosperms; elucidate the role of physiological process and Horticultural techniques	K4
CO5	assess the life cycle patterns in lower forms; compare the anatomical features; summarise the functional mechanism in the plants and evaluate the horticultural techniques	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Bryophyta, Pteridophyta and Gymnosperms 1.1 Salient features of Bryophytes, Pteridophytes and Gymnosperms 1.2 A detailed Study of the Life Cycle (no developmental study) of <i>Funaria</i> 1.3 A detailed Study of the Life-Cycle (no developmental study) of <i>Lycopodium</i> 1.4 A detailed Study of the Life-Cycle (no developmental study) of <i>Cycas</i>	K1-K5	14	1-5
2	Anatomy 2.1 Classification of Meristem, Simple and Complex tissue and types of Vascular bundles 2.2 Primary Structure of Dicot Stem and Root 2.3 Primary Structure of Monocot Stem and Root 2.4 Leaf: Isobilateral and Dorsiventral 2.5 Structure and types of Stomata	K1-K5	10	1-5
3	Physiology – I 3.1 Mineral Nutrition in plants 3.2 Active and Passive transport, Osmosis, Diffusion, Imbibition 3.3 Photosynthesis - Light Reaction and Dark Reaction.	K1-K5	8	1-5
4	Physiology – II 4.1 Plant Growth Regulators - Auxins, Cytokinins, Gibberellins, ABA and Ethylene- Practical Applications 4.2 Photoperiodism 4.3 Vernalisation	K1-K5	8	1-5
5	Horticulture 5.1 Introduction, Branches of Horticulture and Garden Implements 5.2 Vegetative propagation methods: Cutting, Layering and Grafting 5.3 Cut Flowers, Importance and Methods to Prolong Vase Life 5.4 Flower Arrangement - Fresh and Dry 5.5 Bonsai Technique	K1-K5	10	1-5

BOOKS FOR STUDY

Rao, K. N., and R.V. Narayanaswamy, *Outlines of Botany*. Madras: S.Viswanathan, 1992.

BOOKS FOR REFERENCE

Janick, J. *Horticultural Science*. New Delhi: Surgeet.1982.

S N Gupta, *Instant Horticulture*, Jain Brothers, 21 Edition, 2023

Arya, R L, *Fundamentals of Horticulture*, Scientific Publishers, 2022

Kumar, N. *Introduction to Horticulture*. Nagercoil: Rohini, 1980.

Pandey, B.P. *College Botany*, Vol II New Delhi: S.Chand, 2015.

Sheela, V. L. *Horticulture*, Chennai: MJP, 2011.

Singh, V., Pande P.C and Jain D.K: *Anatomy of Seed Plants*. India: Rastogi, 1996. Sinha, R.K.

Modern Plant Physiology. New Delhi: Narosa, 2014.

Verma. V. *Text Book of Plant Physiology*. New Delhi: Emkay, 2007.

Verma, S.K. *Plant Physiology and Biochemistry*. New Delhi: S Chand, 2008.

Vidyarthi, R.D. *Text Book of Botany*. New Delhi: S.Chand, 2002.

Weston, G.D. *Crop Physiology – Biotechnology*. London: Butterworth – Heinemann, 2021.

WEB RESOURCES

BRYOPHYTES

www.cpbr.gov.au/bryophytes

www.britannica.com

www.csun.edu

www.scilinks.org

blogs.ubc.ca

PTERIDOPHYTA

www.uwgb.edu

www.hardyferns.org

GYMNOSPERMS

www.conifers.org

Wikipedia.org/wiki/gymnosperms www.exploringnature.org

PHYSIOLOGY

www.journals.elsevier.com

www.springer.com

www.academicjournals.org

JOURNALS

Journal of Plant Physiology (Elsevier)

Journal of Plant Physiology (Science Direct)

International Journal of Plant Physiology and Biochemistry

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10(10 x 1 =10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20(1 x 20 =20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/AC/GB24												
	Course Title: General Botany II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 2	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 3	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 4	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 5	3	3	3	2	3	2	3	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

GENERAL BOTANY II - PRACTICAL

CODE: 23BT/AC/P221

CREDITS: 1

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable the students to

- identify the morphological, anatomical and reproductive structures of lower plants
- acquire the skill of sectioning of lower and higher forms of plants
- observe and differentiate the anatomical features in Bryophytes, Pteridophytes, Gymnosperms and Angiosperms
- examine and explain physiological experiments
- demonstrate the horticultural techniques

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify and recall the salient features of the forms included in the syllabus	K1
CO2	explain by giving reasons and differentiate the character found between lower forms and higher forms	K2
CO3	demonstrate the principle behind the physiological set up in angiospermic plants	K3
CO4	analyze the anatomical features of lower plants and angiospermic plants by taking sectioning	K4
CO5	elucidate with reasons the anatomy of the members of Bryophytes, Pteridophytes, Gymnosperms and Angiosperms	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Bryophyta, Pteridophyta and Gymnosperms 1. Bryophytes – <i>Funaria</i> 2. Pteridophyta – <i>Lycopodium</i> 3. Gymnosperm - <i>Cycas</i>	K1-K5	10	1-5
2	Anatomy 1. Primary structure of Dicot Stem and Root 2. Primary structure of Monocot Stem and Root 3. Leaf – Isobilateral and Dorsiventral 4. Stomatal Types	K1-K5	8	1-5

UNIT	CONTENT	CL	Hrs	CO
3	Physiology Experiments (Demonstrations) <ul style="list-style-type: none"> Effect of quality of light on rate of photosynthesis using Wilmot Bubbler Mohl's half leaf experiment Determination of Water Potential by Dye method Ganong's light screen experiment Deficiency and symptoms of various minerals in plant growth (Photographs) 	K1-K4	6	1-5
4	Horticulture technique (Demonstration) – cutting, layering and grafting	K1-K3	2	1-5

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Section	Section	Marks Allotted	Cognitive Level
A	Physiology experiments	20	K1 & K2
B	Spotter (Bryophytes, Pteridophytes and Gymnosperms, Anatomy and Horticulture techniques)		
C	Practical record submission	10	K3
D	Pteridophyta and Gymnosperm - Sectioning & Identification, Diagram, Reasons (1)	10	K4
E	Anatomy – Sectioning & Identification, Diagram, Reason (1)	10	K5
Total		50	

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Section	Question	Marks Allotted	Cognitive Level
A	Spotter (Bryophytes, Pteridophytes and Gymnosperms, Anatomy and Horticulture techniques)	20	K1 & K2
B	Practical record submission	10	K3
C	Physiology Experiments	10	K4
D	Pteridophyta and Gymnosperm - Sectioning & Identification, Diagram, Reasons (1)	10	K5
Total		50	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/AC/P221												
	Course Title: General Botany – II Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 2	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 3	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 4	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 5	3	3	3	2	3	2	3	1	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23BT/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- articulate the interdisciplinary context of environmental issues
- adopt sustainable alternatives that integrate science, humanities and social perspectives
- appreciate the importance of biodiversity and a balanced ecosystem
- calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied core Offered by the Department of Zoology to Students
of Plant Biology and Biotechnology**

SYLLABUS

(Effective from the academic year 2023-2024)

GENERAL ZOOLOGY II

CODE: 23ZL/AC/GZ24

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable students to

- understand the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging
- comprehend the various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals
- understand the basic concepts in Genetics, different patterns of inheritance, types of mutations, types and applications of stem cells and related ethical issues
- comprehend the mechanisms involved in different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccination
- understand certain evolutionary strategies and human evolutionary stages

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K1
CO 2	outline the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K2
CO 3	apply the knowledge to describe the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and	K3

COs	DESCRIPTION	CL
	interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	
CO 4	analyse the mechanisms involved in physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells and related ethical issues, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K4
CO 5	evaluate the mechanisms involved and elaborate on the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells and related ethical issues, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Animal Physiology 1.1 Introduction - Chromophores: mechanism of colour change in cold blooded vertebrates - Bioluminescence: mechanism, examples and significance 1.2 Adaptations to diving and high altitudes 1.3 Exercise Physiology: respiration in exercise and cardiovascular system in exercise 1.4 Physiology of ageing: causes - changes in major systems	K1 - K5	10	1 - 5
2	Animal Behaviour 2.1 Introduction- Animal Associations: Commensalism, Mutualism, Parasitism and Predation 2.2 Play: General Attributes of Play and Examples - Courtship Behaviour: Steps and function - Courtship in birds (Sandgrouse, Bower bird, Baya weaver bird, Asian Koel & Indian Peafowl) 2.3 Learning Behaviour: Forms of Learning 2.4 Abnormal Behaviour in Domestic and Zoo Animals	K1 - K5	10	1 - 5

UNIT	CONTENT	CL	HRS	CO
3	Genetics 3.1 Introduction – Human Chromosomes – Lethal Genes: types and examples 3.2 Patterns of Inheritance: Autosomal Dominant (Hypercholesterolaemia), Autosomal Recessive (Albinism), X- linked Dominant (Hypophosphatemia), X- linked Recessive (Duchenne Muscular Dystrophy), Y-linked (Hypertrichosis) and Mitochondrial inheritance (Kearns Sayre Syndrome) 3.3 Mutation: Classification - Chromosomal aberrations (Types and Examples) 3.4 Stem Cells: Sources and Types, Applications and Ethical issues	K1 - K5	11	1 - 5
4	Immunology 4.1 Immune System: Introduction - Innate Immunity and Acquired Immunity (Humoral and Cell Mediated Immunity) 4.2 Types of Antigens - Antibody Classes and their Biological Activity 4.3 Hypersensitivity reactions: types - Autoimmune disorders: Causes and Significance (eg. Rheumatoid Arthritis) 4.4 Vaccines: Types - National Immunisation Schedule (NIS) for infants, children and pregnant women	K1 - K5	10	1 - 5
5	Evolution 5.1 Introduction to Evolution - Coevolution 5.2 Mimicry and Colouration: Types and significance 5.3 Distribution of Animals - Types, barriers and methods of dispersal of animals 5.4 Stages in Human Evolution - Cultural history	K1 - K5	11	1 - 5

BOOKS FOR REFERENCE

Agarwal, V.K. (2009). *Animal Behaviour*. New Delhi: S.Chand, 2009.

Verma, P.S., Agarwal, V. K. & Tyagi, B. S. (2015). *Animal Physiology*. New Delhi: S. Chand.

Sherwood, L. (2016). *Human Physiology – From Cells to Systems*. (9 ed.). USA: Wadsworth Publishing Company.

Sherwood, L., Klandorf, H. and Yancey, P. (2011). *Textbook of Animal Physiology*. New Delhi: Cengage Learning India Pvt. Ltd. New Delhi.

Cummings, R. M. (2012). *Human Heredity – Principles and issues*. 12th ed. Canada: Thomson Brooks/Cole.

Hall B. K., Hallgrimsson, B & Strickberger, M. W. (2014). *Strickberger's Evolution*. Massachusetts: Jones and Bartlett.

Klug, W. S., Cummings, M. R. & Spencer, C. (2018). *Concepts of Genetics*. (12th ed.). New Jersey: Pearson Education.

Mathur, R. (2016). *Animal Behaviour*. Meerut: Rastogi.

Owen, J. A., Punt, J. & Stranford, S. A. (2018). *Kuby Immunology*. New York 2013: W.H. Freeman & Company

Rastogi, V. B. (2015). *Evolutionary Biology (Organic Evolution)*. Meerut: Kedarnath Ramnath.
 Rao . V. C. (2016). *Immunology*. Alpha Science.
 Tomar, B. S. & Singh, S. P. (2019). *Animal Distribution, Evolution and Developmental Biology*. Meerut: Rastogi.

JOURNALS

Journal of Animal physiology and Animal Nutrition
 Journal of Animal Science
 International Journal of Zoological Research

WEB RESOURCES

NPTEL Course in Basics of Biology
https://onlinecourses.nptel.ac.in/noc22_bt17/preview
www.omim.org
<http://humanorigins.si.edu/>
<http://www.medicine.mcgill.ca/physio/vlab/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (10 marks)	5 x 2 = 10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	5 x 2 = 10	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	1 x 10 =10	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	1 x 15 =15	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:

Total Marks: 50

Quiz / Assignment / Video Assignment / Poster presentation / Case Study / Scrap book
Two to three components will be prescribed

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 = 20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	10 x 2 = 20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 =20	2 K3 question	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 =30	2 K4 question	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 question	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/AC/GZ24												
	Course Title: GENERAL ZOOLOGY II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 2	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 3	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 4	3	3	3	2	2	2	3	1	-	-	-	-	-
CO 5	3	3	3	2	2	2	3	1	-	-	-	-	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Offered by the Department of Zoology to Students
of Plant Biology and Biotechnology**

SYLLABUS

(Effective from the academic year 2023 - 2024)

GENERAL ZOOLOGY II - PRACTICAL

CODE: 23ZL/AC/P221

CREDITS: 1

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable students to

- Understand the basic principle involved in the estimation of oxygen consumption by an aquatic animal and calculate the rate of oxygen consumption
- Comprehend the principle and procedure to observe the Barr body in squamous epithelial cells, to determine the blood groups and to detect the presence of HCG in the urine sample of pregnant women
- Develop the necessary skills for analysing the behaviour, pedigree of some human inherited traits/diseases/disorders, Mendelian traits and Karyotypes
- Identify and describe specific examples for bioluminescent organisms, animal associations, immune cells, coevolution, mimicry and colouration and stages of evolution in man
- Write a report on the inheritance pattern of Mendelian traits, genetic diseases/disorders and maintain an observation and record book

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO 1	Submit a record of practical work carried out in the laboratory and/or report on pedigree analysis and Mendelian traits	K1
CO 2	Illustrate and describe the bioluminescent organisms, immune cells, animal associations and evolutionary adaptations	K2
CO 3	Demonstrate the skills to identify the Barr body in squamous epithelial cells, to determine the blood groups and to detect the presence of HCG in the urine sample	K3
CO 4	Analyse the behaviour of animals, pedigree of some human inherited traits/diseases/disorder, Mendelian traits and normal and abnormal Karyotypes	K4
CO 5	Estimate the oxygen consumption in an aquatic animal with reference to body weight	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	i. Oxygen consumption in an aquatic animal with reference to body weight.	K5	8	CO 5
2	i. Time Budgeting of Courtship and Play Behaviour ii. Pedigree Analysis of some human inherited traits/disorders/diseases iii. Study of any five Mendelian Traits iv. Observation and identification of Karyotypes: Normal male and female, Turner's, Klinefelter's and Down's syndrome karyotypes	K4	6	CO 4
3	i. Squamous epithelium squash preparation – Barr body ii. ABO - Blood Grouping and Rh – Typing iii. Pregnancy test: ELISA- Qualitative Test for Pregnancy	K3	6	CO 3
4	Observations and Identification of the following spotters: i. Bioluminescent animals - Comb Jelly, Firefly and Angler fish ii. Animal Associations: Parasitism - <i>Wuchereria bancrofti</i> and <i>Sacculina</i> on Crab Mutualism - Sea Anemone on Hermit Crab Commensalism - <i>Echeneis</i> Predation – Octopus iii. Immune cells - Basophil, Neutrophil, Eosinophil, Phagocyte and Dendritic cell iv. Coevolution: a) Plant and Pollinator - <i>Centropogon</i> flower and Hummingbird b) Predator and Prey - Rough-skinned Newt and Garter Snake v. Mimicry and Colouration: a) Batesian mimicry - Crimson Rose/Common rose and Common Mormon b) Mullerian mimicry - Bees and Wasps b) Protective Colouration - Sand Grasshopper c) Aggressive Colouration - Poison Dart Frog vi. Stages in the evolution of man	K2	3	CO 2
5	i. Reports on Pedigree analysis of some human inherited traits/disorders/diseases and Mendelian traits ii. Maintenance of an observation and record book of practical work is an integral part of the syllabus.	K1	3	CO 1

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (15 marks)	$1 \times 15 = 15$	1 question	1 question
B (Unit 2)	K4 (8 marks)	$2 \times 4 = 8$	2 questions	2 questions
C (Unit 3)	K3 (10 marks)	$1 \times 10 = 10$	1 question	1 question
D (Unit 4)	K2 (12 marks)	$4 \times 3 = 12$	4 questions	4 questions
E (Unit 5)	K1 (5 marks)	5	Report & Observation notebook	Report & Observation notebook
Total		50	8	8

End Semester Examination: Total Marks: 50**Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (15 marks)	$1 \times 15 = 15$	1 question	1 question
B (Unit 2)	K4 (8 marks)	$2 \times 4 = 8$	2 questions	2 questions
C (Unit 3)	K3 (10 marks)	$1 \times 10 = 10$	1 question	1 question
D (Unit 4)	K2 (12 marks)	$4 \times 3 = 12$	4 questions	4 questions
E (Unit 5)	K1 (5 marks)	5	Record notebook	Record notebook
Total		50	8	8

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/AC/P221												
	Course Title: GENERAL ZOOLOGY II-PRACTICALS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	2	2	1	2	1	1	-	-	-	-	-
CO 2	3	2	3	2	2	1	2	1	-	-	-	-	-
CO 3	3	3	3	2	3	2	1	1	-	-	-	-	-
CO 4	3	3	3	2	2	2	1	1	-	-	-	-	-
CO 5	3	3	2	2	2	1	2	1	-	-	-	-	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY

CODE: 23BT/MC/TE34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- describe the vegetative and reproductive morphology of angiosperm plants
- summarize different systems of classification and nomenclature rules for plants
- develop the understanding in herbarium and key preparations techniques
- enable students to understand and identify the importance and morphological features of plants
- explore economic importance of plants in terms of food, medicine and commerce

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the fundamental concept on morphology; recollect technical description and nomenclature of angiosperm plants	K1
CO2	classify taxonomic structure, hierarchy and examine systems of classification and nomenclature rules	K2
CO3	identify the diagnostic features of various angiosperm plants and interpret their family characters	K3
CO4	analyze the diagnostic features and explain the economic importance of selected families	K4
CO5	evaluate and create taxonomic key & herbarium specimens by compiling the knowledge on plant identification	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Classification and Plant Morphology 1.1 Overview of Plant Morphology - Habit, Roots, Stems, Leaves, Inflorescence, Flowers and Fruits 1.2 Phenetic (Linnaean, Bentham and Hooker) and Phylogenetic (Angiosperm Phylogeny Group IV (APG IV) Systems of Classification 1.3 Introduction to Chemotaxonomy, Numerical taxonomy and Molecular taxonomy	K1-K5	13	1-5
2	Nomenclature and Herbaria 2.1 Plant Nomenclature: Binomial and Polynomial, ICN – Typification, Effective and Valid Publication, Author Citation; Important Botanical Gardens – Kew Gardens, London; Acharya Jagadish Chandra Bose Botanic garden, Calcutta. 2.2 Herbarium Techniques: Collection, Pressing, Drying, Poisoning, Mounting and Preservation of Plant Specimens; Important Herbaria – BSI, Coimbatore; Rapinat Herbarium, Trichy 2.3 Taxonomic Keys (Intended and Bracketed keys) and their uses	K1-K5	13	1-5
3	A Detailed Study and Economic Importance of the following Families: 3.1 Polypetalae - Annonaceae, Rutaceae, Fabaceae (including the subfamilies) and Cucurbitaceae. 3.2 Gamopetalae - Rubiaceae, Sapotaceae, Apocynaceae and Asclepiadaceae	K1-K5	13	1-5
4	A Detailed Study and Economic Importance of the following Families: 4.1 Gamopetalae -, Solanaceae and Lamiaceae 4.2 Monochlamydeae –Amaranthaceae and Euphorbiaceae 4.3 Monocotyledones – Orchidaceae and Poaceae	K1-K5	13	1-5
5	Economic Botany 5.1 A Brief Study of the Morphology, Processing and Uses of the following: Beverages (<i>Camellia sinensis</i>), Sugar (<i>Saccharum officinarum</i>), Oil (<i>Arachis hypogaea</i>) 5.2 Botanical name, Common name, Family, Morphology of useful part and Uses of :Cereals(<i>Triticum aestivum</i> , <i>Oryza sativa</i> and <i>Avena sativa</i>), Millets (<i>Sorghum bicolor</i> , <i>Setaria italica</i> and <i>Eleusine coracana</i>), fibre yielding plants (<i>Gossypium</i> spp, <i>Corchorus</i> spp and <i>Cannabis sativa</i>) and dye yielding plants (<i>Indigofera tinctoria</i> , <i>Acacia catechu</i> and <i>Haematoxylum campechianum</i>) 5.3 Botanical name, Common name, Family, Morphology of useful part and Uses of :Oil yielding plants(mustard, <i>Sesamum indicum</i> and <i>Cocos nucifera</i>)Medicinal plants (<i>Asparagus racemosus</i> , <i>Catharanthus roseus</i> and <i>Withania somnifera</i>) spices and condiments (<i>Piper nigrum</i> , <i>Coriandrum sativum</i> and <i>Laurus nobilis</i>)Uses of Fumitories and Masticatories (<i>Nicotiana tabacum</i> , <i>Areca catechu</i> and <i>Piper betle</i>)	K1-K5	13	1-5

BOOKS FOR STUDY

Singh. V and D.K. Jain. *Taxonomy of Angiosperms*. Meerut: Rastogi, 2006.
Verma.V. *A Text Book of Economic Botany*. London:Cambridge University,Ane Books,2009.
Kochhar S. L. *Economic Botany in the tropics* (Fourth edition). Macmillan publishers India Ltd., Delhi, 2012.

BOOKS FOR REFERENCE

Antony V. T., *Biodiversity of Flowering Plants*. Sonali, 2011.
David J. Mabberly, *Mabberley's Plant – A portable dictionary of plants, their classification and uses*: Cambridge University Press, 2018.
Simpson, B.B and Ogorzaly, M, C. *Economic Botany: Plants in Our World*, Third Edition. McGraw-Hill Higher Education. New York, 2001.
Simpson, M.G. *Plant Systematics*, Second Edition. Academic Press, 2010.
John Gonsalves, *A Textbook of Economic Botany and Ethnobotany*, International Scientific Publishing Academy, New Delhi: 2016.
Pandey, S. N, and S.P. Misra . *Taxonomy of Angiosperms*- Ane Books India, New Delhi, 2008.
Maiti R K., *Introduction to Modern Economic Botany*. Agrobios, 2009.
Pandey, B. P., *Taxonomy of Angiosperm*, S. Chand & Company, 2015.
Manilal, K.S., Van Rheede's *Hortus Malabaricus*. English Edition, with Annotations and Modern Botanical Nomenclature. (12 Vols.) University of Kerala, Trivandrum, 2003.
Sharma, O. P., *Plant Taxonomy*, McGraw Hill Education, 2017.

WEB SOURCES

<https://www.worldfloraonline.org/>
<https://pragatiprakashan.in/taxonomy-of-angiosperms-and-utilization-of-plants.html>
<https://www.nhbs.com/en/morphology-and-economic-botany-of-angiosperms-book>

JOURNALS

Botanical Journal of the Linnean Society

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 =10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20(1 x 20 = 20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6= 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/TE34												
	Course Title: Taxonomy of Angiosperms and Economic Botany												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

PHYTOTHERAPY AND ETHNOBOTANY

CODE: 23BT/MC/PE33

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to.

- gain knowledge on herbal drug preparation, quality of raw material and list the guidelines for good manufacture practices.
- identify the commonly used medicinal plants, their phytochemical and pharmacological applications
- understand the significance of ethnobotany, bioprospecting and role of AYUSH
- observe the role of ethnobotany and ethnic tribes in conservation of biodiversity and study importance Traditional Knowledge, Intellectual Property Rights and Biopiracy
- describe the of dhatu in physical beauty and hair care through the knowledge of Ayurveda

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the methods of drug preparation and organoleptic study using the herbal plants and examine their ethnobotanical concept.	K1
CO2	understand the ethnobotanical knowledge of tribes and relate it for herbal preparations, pharmacognosy and research.	K2
CO3	apply the method of drug preparation through herbal plants and discover various concepts of ethnobotanical research	K3
CO4	analyse the ethnobotanical knowledge of plant compounds and explain the method of herbal preparation	K4
CO5	summarize the concept of Traditional Knowledge, phytochemical analysis and evaluate the herbal preparations.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Origin of Herbs in Health Care 1.1 Basic Principles of Ayurveda and Siddha: Panchamahabhutas, Tridhosha Concept, Malas, Agni, Prakruti 1.2 Drug Preparation: Ashwam, Arishtam, Taila, Churnam, Leghyam, Bhasmam, Infusion and Decoction, Poultice: Salves, Compresses, Mouthwash 1.3 Adulteration, Detection and Standardization of Herbal Drugs 1.4 Validation of Herbal Drugs and Good Manufacturing Practices	K1-K5	11	1-5
2	Organoleptic Study Vernacular Name, Binomial, Family, Active Principle and Medicinal Uses of the following: 2.1 Roots and Underground Stem: <i>Rauwolfia serpentina</i> and <i>Zingiber officinalis</i> 2.2 Leaves and Bark: <i>Aloe vera</i> and <i>Cinnamomun zeylanicum</i> 2.3 Flowers and Fruits: <i>Hibiscus rosa-sinensis</i> and <i>Piper longum</i> 2.4 Seeds and Whole Plant: <i>Trigonella foenum – graceum</i> and <i>Azadirachta indica</i> .	K1-K5	11	1-5
3	Ethnobotany 3.1 Ethnobotany: Definition and Scope 3.2 Methodologies of Ethnobotanical Research: Field Work, Literature, Herbaria and Musea 3.3 Ethnobotany as a lead to Modern Drug Discovery: Memory plus, Pankajakasturi Chooram 3.4 Bioprospecting and Role of AYUSH	K1-K5	11	1-5
4	Ethnobotany and Conservation of Medicinal plants 4.1 Role of Ethnobotany in Conservation of Biodiversity 4.2 Ex- situ Conservation & In- situ Conservation 4.3 Ethnobotanical Studies of Irula Tribes 4.4 Traditional knowledge (TK) in relation to Intellectual Property Rights and Biopiracy	K1-K5	11	1-5
5	Ayurveda and Beauty 5.1 Role of Dhātu in Physical Beauty and Daily Routine to Enhance Beauty 5.2 Essential Oils & Aroma Therapy 5.3 Preparation of the following (Practical) Ayurveda / Siddha Medicines for Common Ailments: Infusion and Decoction, Mouth wash and Herbal Tooth Powder, Tailam, Churnam, Leghyam, Preparation of Herbal Tea and Soups 5.4 Facial and Hair Care using Herbal Products (Demonstration)	KI-K5	11	1-5

BOOK FOR STUDY

Ahuja M.N. *Ethnobotany: The Renaissance of Traditional Herbal Medicine*. New Delhi. 2016.

BOOKS FOR REFERENCE

- Anil Kumar. *Handbook on Medicinal Plants*. New Delhi. 2016.
- Das, S.N. *Medicinal Plants for Health and Wealth*. New Delhi: Agrotech. 2006.
- Dash, V.B. *Ayurvedic Treatment for Common Diseases*. New Delhi: Konark, 1978.
- Dash, V.B. *Fundamental of Ayurvedic Medicine*. New Delhi: Konark, 1989.
- Dastur, J.F. *Medicinal plants of India and Pakistan*. New Delhi: D.B.Taraporewala, 1988.
- Dananjay J Deshpande., *Handbook of Medicinal Herbs*. Agrobios, 2010.
- Duke, J.A. *Handbook on Medicinal Herbs*. London: CRC, 2002.
- Froog, S. *Medicinal Plants - Field and Laboratory Manual*. New York: International Book 2005.
- Grewal, R.C. *Medicinal Plants*. Cambridge: Harvard University, 2000.
- Hanson, B.A. *Understanding Medicinal Plants, their chemistry and therapeutic action*. New York: The Haworth, 2005.
- ICMR. *Quality Standards of Indian Medicinal Plants*. (Vols.I, II, III, & IV).New Delhi.: ICMR, 2006.
- Jaibala, S. and G.Balakrishnan. *A Hand Book of Common Remedies based on Siddha System of Indian Medicine*. Madras. St.Louis Institute, 1975.
- Jain, S.K. *Contribution to Ethnobotany*. India: Scientific, 1997.
- John Gonsalves. *A Text book of Economic Botany and Ethnobotany*. New Delhi: 2016.
- Kapoor, L.D. *Handbook of Ayurvedic Medicinal Plants*.,India: CRC,.,2001.
- Prajapati, N.D. and S.S.Purohit. *Agro's Color Atlas of Medicinal Plants*. Jodhpur: Agrobios, 2006.
- Rastogi, R.P. *Compendium of Indian Medicinal Plants*. Vols. I, II, III and IV. New Delhi: Central Drug Research Institute Publication and Information Directorate, 1988.
- Reddy, K.J., B.Bahadur, B.Bhadriah and M.L.N.Rao. *Advances in Medicinal Plants*., Delhi: Universities, 2007.
- Roseline A., *Pharmacognosy*. Chennai:MJP, 2011.
- Saha, N.N. *Herbal Remedies*. New Delhi: Universal, 1981.
- Trivedi, P.C. *Medicinal Plants: Ethnobotanical Approach*. Jodhpur: Agrobios, 2006.

WEB SOURCES

www.ethnobiology.ch
www.ncbi.nlm.nih.gov

JOURNALS

International Journal of Phytotherapy & Ethnobotany
Journal of Pharmacognosy & Phytotherapy
Journal of Phytotherapia - Elsevier

PATTERN OF ASSESSMENT**No Unit should be left out****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice)Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/PE33												
	Course Title: Phytotherapy and Ethnobotany												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	2	3	3	3	3	3
CO 2	3	3	3	2	3	1	3	2	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	2	3	1	3	2	3	3	3	3	3
CO 5	3	3	3	2	3	2	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY – PRACTICAL

CODE: 23BT/MC/P332

CREDITS: 2

L T P: 0 0 3

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

To enable the students to

- describe the vegetative and reproductive morphology of angiosperm plants
- summarize different systems of classification and nomenclature rules for plants
- develop the understanding in herbarium and key preparations techniques
- enable students to understand and identify the importance and morphological features of plants
- explore economic importance of plants in terms of food, medicine and commerce

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	observe salient features of plants belonging to different families using key identifying characters	K1
CO2	compare the taxonomic characters of Angiosperms and illustrate the vegetative and reproductive structures	K2
CO3	examine the vegetative and reproductive parts of plants, for identification of plants to their respective families.	K3
CO4	demonstrate the practical skills in dissection of floral parts for given angiospermic plants	K4
CO5	develop practical skills in identification of plants for key preparation and acquire the skill of herbarium preparation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	A detailed study of vegetative and reproductive characters of the plants belongs to the following families: Polypetalae - Annonaceae, Rutaceae, Fabaceae (including the subfamilies) and Cucurbitaceae	K1-K5	13	1-5
2	A detailed study of vegetative and reproductive characters of the plants belongs to the following families: Gamopetalae - Rubiaceae, sapotaceae, Apocynaceae , Asclepiadaceae, Solanaceae and Lamiaceae Monochlamydeae – Amaranthaceae and Euphorbiaceae Monocotyledones - Orchidaceae and Poaceae	K1-K5	13	1-5
3	Economic Botany Economically important products of plants included in the syllabus- binomial, family and morphology of the useful parts and uses	K1-K5	7	1-5
4	1. Key Preparation Preparation of dichotomous key for the given specimens 2. Herbarium preparation Collection of specimen and submission of herbaria belonging to 10 different families for the end semester examination 3. Field Trip Field trip to observe the plants, in their natural habitat in local or outstation for 3 to 5 days and submission of herbarium sheets	K1-K5	6	1-5

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 3 hours

Section	Questions	Marks Allotted	Cognitive Level
A	Spotter	12	K1
B	Submission of Record work	10	K2
C	Key Preparation	8	K3
D	Derivation of family	10	K4
E	Description, illustration & Dissection	10	K5
Total		50	

End- Semester Examination: Total Marks: 50 Duration: 3 hours

Section	Questions	Marks Allotted	Cognitive Level
A	Spotter	12	K1
B	Submission of Herbaria	10	K2
C	Key Preparation	8	K3
D	Derivation of family	10	K4
E	Description, illustration & Dissection	10	K5
Total		50	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/P332												
	Course Title: Taxonomy of Angiosperms and Economic Botany- Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Allied Core offered by the Department of Chemistry to
B.Sc. Plant Biology & Plant Biotechnology and
B.Sc. Advanced Zoology & Biotechnology Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF BIOCHEMISTRY I

CODE: 23CH/AC/FB33

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To facilitate understanding of fundamental biochemical principles involving biological mechanisms
- To explain the significance of clinical haematological tests and enzymes in biochemical processes
- To enable understanding of carbohydrate metabolism
- To introduce the principles and methodologies involved in the digestion and absorption of carbohydrates

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the fundamentals of biochemistry, biomolecules and bioenergetics	K1
CO2	Relate blood buffers with the pH of blood, digestion and absorption of carbohydrates with carbohydrate metabolism	K2
CO3	Analyse the metabolism of glucose, hormone action and mechanism of enzyme action	K3
CO4	Evaluate free energy, enthalpy and entropy in a biochemical process, spontaneity of a biochemical reaction, glucose levels in blood through haematological tests and pH of blood	K4
CO5	Summarise the steps involved in different stages of carbohydrate metabolism, mechanism of enzyme action and coagulation of blood	K5

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Biochemistry 1.1 Molecular Logic of Living Organisms 1.2 Water – Physical Properties and Hydrogen Bonding of Water-Solvent Properties of Water, Hydrophobic Interactions, the Ionic Product of Water, the pH Scale. Acid Base Indicators- Phenolphthalein and Methyl Orange 1.3 Maintenance of pH of Blood, Bicarbonate Buffers, Acidosis and Alkalosis, Buffers and electrolytes in the body	K1- K5	10	1-5
2.	Blood 2.1 Blood - Composition of Blood, Blood Coagulation – Mechanism. Haemophilia and Sickle Cell Anaemia	K1- K5	5	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.2 Clinical significance of RBC, WBC and Platelet Count in blood			
3.	Bioenergetics 3.1 Enthalpy, Entropy, Free Energy, Standard Free Energy, spontaneous and non-spontaneous. Exergonic and Endergonic Reactions 3.2 High Energy Compounds ATP and ADP, Structural Basis for the Role of ATP as the currency of the cell	K1- K5	4	1-5
4.	Carbohydrates 4.1 Classification of Carbohydrates 4.2 Haworth's Structure and Reactions of Glucose, Fructose and Sucrose. Polysaccharides – Homopolysaccharides -Cellulose, Starch - Amylose and Amylopectin (Structural Elucidation not required) 4.3 Digestion of di and polysaccharides in the body, maintenance of glucose level in Blood-significance of HbA1c 4.4 Carbohydrate Metabolism - Metabolism of Glucose - Glycolysis, TCA Cycle (structures not required), Glycogenesis, Glycogenolysis, Gluconeogenesis. Oxidative phosphorylation and electron transport chain	K1- K5	15	1-5
5.	Enzymes 5.1 Definition of Enzymes, Coenzymes and Apoenzymes 5.2 Nomenclature and Classification of Enzymes 5.3 Enzyme Specificity - Factors affecting Enzyme Action 5.4 Mechanism of Enzyme Action - Michaelis- Menten Theory (No Derivation) – Fischer's lock and key model and Koshland's induced fit model	K1- K4	5	1-4

BOOKS FOR STUDY

Berry, A. K. *Textbook of Biochemistry*. New Delhi: Emkay, 2001.
 Doraiswamy Y, Swaminathan G. and Nagamani, B. *Allied Biochemistry*. Chennai: Margham, 2015.
 Sharma D. K. *Biochemistry*. Oxford: Alpha Science, 2010.
 Satyanarayana U. *Biochemistry*, 2nd Ed. Kolkata: Books and Allied, 2005.

BOOKS FOR REFERENCE

Lehninger A. L. *Principles of Biochemistry*. New Delhi: CBS, 2006.
 Stryer L, *Biochemistry*. New York: W.H. Freeman, 2007.

WEB RESOURCES

<http://www.hsph.harvard.edu/nutritionsource/what-should-you-eat/protein/>
<http://e.hormone.tulane.edu/learning/types-of-hormones.html>
<https://oli.cmu.edu/courses/biochemistry-open-free/>
<https://www.futurelearn.com/courses/biochemistry>
<https://pubs.acs.org/journal/jceda8>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FB33												
III	Course Title: FUNDAMENTALS OF BIOCHEMISTRY - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Allied Core offered by the Department of Chemistry for B.Sc. Physics,
B.Sc. Plant Biology & Plant Biotechnology and
B.Sc. Advanced Zoology & Biotechnology Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

BIOCHEMISTRY PRACTICAL I

CODE: 23CH/AC/P132

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To enable understanding of the principles of biochemistry through laboratory techniques
- To impart the skills required to perform various chemical reactions in a laboratory
- To instill understanding of the classification of biomolecules based on their structure and property
- To introduce the principles behind the techniques involved

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the procedure for the analysis of carbohydrates, amino acids and proteins.	K1, K2
CO2	identify various carbohydrates, amino acids and proteins based on their structure and property	K3
CO3	distinguish various carbohydrates, amino acids and proteins based on the structural characteristics	K4
CO4	perform chemical reactions in a laboratory according to standard procedure and safety precautions	K5
CO5	analyse a given organic compound qualitatively and identify carbohydrates, amino acids and proteins	K6

UNIT	CONTENT	CL	Hrs	CO
1.	Qualitative Analysis of Carbohydrates 1.1 Reactions of Carbohydrates Glucose, Fructose, Maltose, Sucrose and Starch 1.2 Identification of Unknown Organic Compound	K1-K6	13	1-5
2.	Qualitative Analysis of Amino acids 2.1 Reactions of Amino Acids - Reactions of Tryptophan, Tyrosine, Arginine and Cysteine 2.2 Identification of Unknown Organic Compound	K1-K6	13	1-5
3.	Qualitative Analysis of Proteins 3.1 Reactions of Proteins - Reactions of Casein and Egg Albumin 3.2 Identification of Unknown Organic Compound	K1-K6	13	1-5

BOOKS FOR STUDY

Swaminathan G. and George M. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

PATTERN OF ASSESSMENT

Continuous Assessment Test:	Total Marks: 50	Duration: 3 hours
Analysis		- 50 marks
Preliminary reaction		- 15 marks
Confirmatory tests with all colour tests		- 30 marks
Final report		- 05 marks

End-Semester Examination:	Total Marks: 50	Duration: 3 hours
Analysis		- 50 marks
Preliminary reaction		- 15 marks
Confirmatory tests with all colour tests		- 30 marks
Final report		- 05 marks

Sections	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K4	10	Subjective
Experiment	K5-K6	40	Subjective

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CH/AC/P132												
III	Course Title: BIOCHEMISTRY PRACTICAL I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	2	1	3	2	2	2	2
CO 2	3	3	2	1	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	1	2	2	3	2	3	3	3	2	2
CO 4	3	3	2	1	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	1	3	3	2	1	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS

CODE: 23BT/MC/AE44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- recognize and understand the types of tissue and reproductive organs in plants.
- identify and compare the anatomy of stem, root, leaves and their secondary growth
- understand and distinguish between the normal and anomalous growth in plants
- gain basic knowledge on male and female reproductive structures of angiosperm
- summarize the process of reproduction and development of embryo in angiosperms

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the types tissues and recall the reproductive structures of angiosperms	K1
CO2	illustrate the anatomy of stem, root, leaf and reproductive parts	K2
CO3	identify and distinguish normal and anomalous growth in plants	K3
CO4	compare the primary and secondary anatomical structures of vegetative and reproductive parts of plants	K4
CO5	discuss the organisation of plant tissue and the process of reproduction in angiosperms	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Meristems and Simple Tissues 1.1 Meristem: Classification, Organization of Shoot Apex (Apical cell theory, Histogen theory) and Root Apex (Apical cell theory, Histogen theory, Korper- Kappe theory, Concept of quiescent centre) 1.2 Lateral meristem: Vascular Cambium - Structure and Formation 1.3 Cork Cambium: Periderm: Phellem, Phellogen and Phelloderm, Development, Location, Morphology of Bark, Commercial Bark and Lenticels 1.4 Simple tissues – Parenchyma, Collenchyma and Sclerenchyma (structure, types and functions)	K1-K5	13	1-5
2	Complex Tissues and Secretory Tissues 2.1 Complex Tissue- Xylem and Phloem 2.2 Secondary Xylem - Vessels, Tracheids, Wood Parenchyma and Rays, Sap Wood, Heartwood, Reaction wood, Tyloses, Annual Rings, Dendrochronology. 2.3 Secondary phloem - Sieve Tubes, Companion Cells, Phloem Parenchyma and Fibres 2.4 Secretory tissues –Glandular trichome, Hydathodes, Nectaries, Resin ducts and Laticifers	K1-K5	13	1-5
3	Primary and Secondary Structures 3.1 Leaf - Dorsiventral (mango), Isobilateral (Grass) 3.2 Epidermis – Hairs, Stomatal – Types 3.3 Primary structure of, Monocot – stem (<i>Chloris</i>) and root (<i>Canna</i>) and Dicot- stem and root (<i>Cicer</i>) 3.4 Secondary structure of dicot stem and root (<i>Tridax</i>) 3.5 Anomalous Growth: <i>Nyctanthes</i> , <i>Boerhaavia</i> , <i>Bougainvillea</i> and Anomalous Secondary Thickening in Monocot Stem - <i>Dracaena</i>	K1-K5	13	1-5
4	Embryology 4.1 Microsporangium: Structure of anther, Microsporogenesis - Male Gametophyte 4.2 Megasporangium: Structure and types of ovules, Megasporogenesis - Female Gametophyte (Embryosac) – Monosporic (<i>Polygonum</i>), Bisporic (<i>Allium</i>) and Tetrasporic (<i>Peperomia</i>) 4.3 Endosperm - Types and Functions; Nuclear, Cellular, Helobial and Ruminant Endosperm	K1-K5	13	1-5
5	Embryology 5.1 Double Fertilization 5.2 Embryo - Development of Dicot Embryo – <i>Capsella bursa pastoris</i> . 5.3 Development of monocot embryo (<i>Zea mays</i>). 5.4 Apomixis , Polyembryony , Parthenogenesis , Parthenocarpy.	K1-K5	13	1-5

BOOKS FOR STUDY

Bhojwani, S.S and S.P. Bhatnagar. *Embryology of Angiosperms*. New Delhi: Vikas, 2015.
Pandey, B.P . *Plant Anatomy*. S. Chand & Company Ltd., New Delhi, 2009.

BOOKS FOR REFERENCE

Esau K. *Anatomy of Seed Plants*. New York: Wiley Eastern, 2006.
Fahn, A. *Plant Anatomy*. London: Oxford Pergamon, 1990.
Emily L. Gregory, *Elements of Plant Anatomy*. Forgotten Books, London: 2017.
Singh, V., P.C. Pande and D.K. Jain. *Anatomy of Seed Plants*. Meerut, India: Rastogi, 2005.
Singh, V., Pande, P. C. and Jain, D. K., *Embryology of Angiosperms*, Rastogi Publications, Meerut, 2018.

WEB SOURCES

https://academic.oup.com/plcell/article/16/suppl_1/S46/6010562
<https://www.worldcat.org/title/embryology-of-angiosperms/oclc/742342811>
<https://www.kobo.com/us/en/ebook/a-textbook-of-plant-anatomy>

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10(10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20(1 x 20 = 20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/AE44												
	Course Title: Anatomy and Embryology of Angiosperms												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	1	-	3	3	3	3	3
CO 2	3	3	3	1	2	2	1	-	3	3	3	3	3
CO 3	3	3	3	1	3	3	1	-	3	3	3	3	3
CO 4	3	3	3	1	2	2	1	-	3	3	3	3	3
CO 5	3	3	3	1	3	3	1	-	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS- PRACTICAL

CODE: 23BT/MC/P442

CREDITS: 2

L T P: 0 0 3

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

To enable the students to

- recognize and understand the types of cells, tissue and reproductive organs in plants.
- identify and compare the anatomy of stem, root, leaves and their secondary growth
- understand and distinguish between the normal and anomalous growth in plants
- gain basic knowledge on male and female reproductive structures of angiosperm
- summarize the process of reproduction and development of embryo in angiosperms

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	observe types of cells, tissues, tissue types, and identify reproductive organs of angiosperms	K1
CO2	examine the primary and secondary anatomical structures of vegetative and reproductive structure in plants	K2
CO3	analyse and distinguish normal and anomalous growth in plants	K3
CO4	demonstrate the practical skill in dissection of embryo to observe the stages in embryo development	K4
CO5	develop practical skills in sectioning and mounting of sample for identification of tissues and tissue organization	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Anatomy A study of anatomy of the following (any 2 specimens in each category for stem and root) 1. Primary structure: Dicot stem and Dicot root Monocot stem and Monocot root 2.Secondary structure: Dicot Stem and Dicot Root	K1-K5	13	1-5
2	3.Leaf: Dorsiventral – Mango, Isobilateral – Grass 4.Stomatal types in Dicots and Monocots	K1-K5	7	1-5
3	5. Anomalous Structure: <i>Nyctanthes</i> <i>Boerhaavia</i> <i>Bougainvillea</i> <i>Dracaena</i> 6. Ergastic Substances: Druses, Raphides and Cystoliths	K1-K5	13	1-5
4	EMBRYOLOGY OF ANGIOSPERMS A study of the following: 1. T.S of young anther and mature anther 2. Pollen morphology 3. Binucleate and tetranucleate embryo sacs 4. Stages of Dicot embryo development 5. L.S. of mature monocot embryo 6. Endosperm - nuclear, cellular and ruminate 7. Embryo and anther isolation and dissection – <i>Tridax</i> and <i>Zea mays</i>	K1-K5	6	1-5

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 3 hours

Section	Questions	Marks Allotted	Cognitive Levels
A	Spotter (Anatomy and Embryology)	15	K1
B	Submission of Record work	10	K2
C	Embryo Dissection	5	K3
D	Sectioning, Drawing, Identification with reasons- Anomalous	8	K4
E	Sectioning, Drawing, Identification with reasons	12	K5
Total		50	

End- Semester Examination: Total Marks: 50 Duration: 3 hours

Section	Questions	Marks Allotted	Cognitive Levels
A	Spotter (2 Anatomy and 2 Embryology)	20	K1- K2
B	Embryo Dissection	6	K3
D	Sectioning, Drawing, Identification with reasons- Anomalous	8	K4
E	Sectioning, Drawing, Identification with reasons	16	K5
Total		50	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/P442												
	Course Title: Anatomy and Embryology of Angiosperms-Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	-	3	3	3	3	3
CO 2	3	3	2	2	3	2	3	-	3	3	3	3	3
CO 3	3	3	3	2	3	3	2	-	3	3	3	3	3
CO 4	3	3	2	2	3	2	1	-	3	3	3	3	3
CO 5	3	3	2	2	3	2	3	-	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23BT/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage, 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group Discussions
- Group Presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Allied Core Offered by the Department of Chemistry for
B.Sc. Plant Biology and Plant Biotechnology and
B.Sc. Advanced Zoology and Biotechnology Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF BIOCHEMISTRY II

CODE: 23CH/AC/FB43

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To provide an understanding of the biochemical importance of lipids, proteins, hormones and micronutrients
- To enable understanding of lipid and protein metabolisms
- To introduce the principles and methodologies involved in digestion and absorption of lipids and proteins

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the classification, structure and metabolism of lipids, proteins hormones and vitamins	K1
CO2	explain the use of biochemical techniques in the study of proteins, lipids, hormones, vitamins and micronutrients	K2
CO3	analyze the metabolisms involving lipids, proteins, hormones, vitamins and minerals	K3
CO4	evaluate mechanism of metabolism of protein, lipid and hormones using biochemical tools	K4
CO5	integrate the cause of a disease in human body and the metabolism	K5

UNIT	CONTENT	CL	Hrs	CO
1.	Lipids 1.1 Classification of Lipids and Fats 1.2 Definitions and Significance of Iodine Value, Acid Value, Saponification Value, RM Value and Acetyl Value 1.3 Lipid Metabolism- Oxidation of β fatty acids, Biosynthesis of Fatty Acids, Ketone bodies and Ketosis. Digestion and Absorption of Lipids 1.4 Risk factor of HDL, LDL and total cholesterol in the body	K1- K5	12	1-5
2.	Proteins 2.1 Amino Acids – Classification based on R Groups 2.2 Chemical Reactions of amino acids - with ninhydrin, mineral acid, formaldehyde, FDNB and CO ₂ 2.3 Structure of Proteins - Peptide Bond, Primary, Secondary and Tertiary structures. 2.4 Classification of proteins based on shape, composition and solubility. Properties of proteins - denaturation, amphoteric nature, ion binding capacity and solubility	K1- K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	2.5 Protein Metabolism - transamination, oxidative deamination and Urea Cycle. Digestion and absorption of proteins			
3.	Hormones 3.1 Definition, Classification of Hormones (Steroid and Non-Steroid Only) 3.2 Mechanism of Hormone Action 3.3 Functions of Insulin and Thyroxin. Clinical significance of TSH, T3 and T4	K1- K5	5	1-5
4.	Biochemistry and Nutrition 4.1 Vitamins (fat & water soluble)- sources, metabolic functions, deficiency diseases, daily requirements- vitamin A and vitamin C (Structure) 4.2 Principal elements- Calcium, Phosphorus, Magnesium, Sodium, Potassium, Chlorine, Sulfur- sources, function, recommended dietary allowance, deficiency - Calcium, Phosphorus- absorption and retention, product of Ca and P in serum. 4.3 Trace elements: Chromium, Selenium, Cobalt- sources, function, deficiencies	K1- K5	5	1-5
5.	Analytical techniques in Biochemistry 5.1 Centrifugation – Principle and applications of sedimentation and ultracentrifugation 5.2 Electrophoresis – Principle and applications of SDS-PAGE 5.3 Ultrafiltration – Principle and applications of Dialysis 5.4 Chromatography – Principle and applications of Thin layer (TLC) and High-Performance Liquid Chromatography (HPLC)	K1- K5	5	1-5

BOOKS FOR STUDY

Berry, A. K. *Textbook of Biochemistry*. New Delhi: Emkay, 2001.
Doraiswamy Y, Swaminathan G. and Nagamani, B. *Allied Biochemistry*. Chennai: Margham, 2015.
Sharma D. K. *Biochemistry*. Oxford: Alpha Science, 2010.
Satyanarayana U. *Biochemistry*, 2nd Ed. Kolkata: Books and Allied, 2005.

BOOKS FOR REFERENCE

Lehninger A. L. *Principles of Biochemistry*. New Delhi: CBS, 2006.
Stryer L, *Biochemistry*. New York: W.H. Freeman, 2007.

WEB RESOURCES

<http://www.hsph.harvard.edu/nutritionsource/what-should-you-eat/protein/>
<http://e.hormone.tulane.edu/learning/types-of-hormones.html>
<https://oli.cmu.edu/courses/biochemistry-open-free/>
<https://www.futurelearn.com/courses/biochemistry>
<https://edu.rsc.org/eic>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> Four questions to be set Three questions to be answered out of four. Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> Three questions to be set Two questions to be answered out of three Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> One question to be set with either/or pattern Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CHACFB43												
IV	Course Title: FUNDAMENTALS OF BIOCHEMISTRY -II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Allied Core offered by the Department of Chemistry for
B.Sc. Plant Biology & Plant Biotechnology and
B.Sc. Advanced Zoology & Biotechnology Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

BIOCHEMISTRY PRACTICAL II

CODE: 23CH/AC/P242

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To understand the principles of biochemistry chemistry through laboratory techniques
- To impart the skills required to perform various chemical reactions in a laboratory
- To instill understanding of the classification of organic compounds based on their structure and property
- To understanding of the principles behind the various techniques involved

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
1	recollect the concepts of normality, equivalent weight, R_f value and Beer Lambert's Law	K1
2	differentiate between titrations, colorimetric and chromatographic techniques	K2
3	calculate the normality, equivalent weights and R_f value	K3
4	compare the reagents used in volumetric titration, colorimetric and chromatographic techniques	K4
5	estimate the amount of a given substance using volumetric analysis	K5, K6

UNIT	CONTENT	CL	Hrs	CO
1.	Volumetric Estimations 1.1 Principle and theory of Volumetric Analysis 1.2 Principle and theory of Chromatography and Beer-Lambert's law	K1-K3	3	1-3
2.	Estimations 2.1 Estimation of Oxalic Acid / Fe^{2+} (Permanganimetry) 2.2 Estimation of Glucose 2.3 Estimation of Glycine by Sorensen's Titration 2.4 Estimation of Ascorbic Acid 2.5 Estimation of Acid Value / Saponification Value / Iodine Value of Edible Oil 2.6 Estimation of Enzyme Catalase in Chow chow / Radish	K1-K6	30	1-5

UNIT	CONTENT	CL	Hrs	CO
3.	Group Experiments 3.1 Estimation of Phosphorus by Colorimetry 3.2 Estimation of DNA/RNA by Colorimetry 3.3 Separation of Amino Acids by Paper Chromatography	K1-K4	6	1-4

BOOKS FOR REFERENCE

Sathian J. *Volumetric Estimations* Lab Manual. 2010.

Mendham J., Denney R. C., Barnes J. D., Thomas M. and Sivasankar B. *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson Education, 2009.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Equations and Short Procedure
Experiment

Total Marks: 50

Duration: 3 Hours

-	10 marks
-	40 marks
Up to 2% error	- 40 marks
2.1 – 3.0% error	- 35 marks
3.1 – 4.0% error	- 25 marks
4.1 – 5.0% error	- 20 marks
Above 5%	- 15 marks

End-Semester Examination:

Equations and Short Procedure
Experiment

Total Marks: 50

Duration: 3 hours

-	10 marks
-	40 marks
Up to 2% error	- 40 marks
2.1 – 3.0% error	- 35 marks
3.1 – 4.0% error	- 25 marks
4.1 – 5.0% error	- 20 marks
Above 5%	- 15 marks

Section	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K3	10	Subjective
Experiment	K4-K6	40	Subjective

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CH/AC/P242												
IV	Course Title: BIOCHEMISTRY PRACTICAL II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	1	3	2	3	2	2
CO 2	3	3	2	2	2	2	2	1	3	3	3	2	2
CO 3	3	3	2	2	2	2	3	2	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	2	3	3	2	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

CELL AND MOLECULAR BIOLOGY

CODE: 23BT/MC/CM54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

To enable the students to

- understand the fundamental concepts of cell and molecular biology
- analyse the structure, chemical composition and function of cell organelles and nucleic acids
- elucidate the process of cell cycle and cell divisions
- discuss the biosynthetic process of nucleic acids
- explore the key concept of gene and gene regulation at molecular level

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the structure of cell and cell organelles, identify the stages in cell cycle and enumerate the concepts of prokaryotic gene regulation and expression at molecular level	K1
CO2	describe the structure of cell, cell organelles, nucleic acids and chromosome, classify different stages in cell cycle and explain the biosynthesis of nucleic acids	K2
CO3	illustrate the structure of cell organelles and molecular organization of chromosome, interpret the process of replication in DNA, and relate gene regulation and expression in prokaryote	K3
CO4	analyse the process of DNA replication, various stages of cell division, compare and contrast the gene regulation and expression in prokaryotes.	K4
CO5	evaluate the role of regulatory factors in the synthesis of nucleic acids and expression of genes at molecular level.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Cell and Cell organelles 1.1 Structure of Prokaryotic and Eukaryotic cell 1.2 Cell Membrane: Chemical Composition, Molecular Organization, Models of plasma membrane - Bilayer model, Sandwich model, Unit membrane model, Fluid Mosaic model. 1.3 Cell Organelles - Structure, Chemical Composition, Function of the following: Endoplasmic Reticulum, Golgi Apparatus, Mitochondria, Chloroplast, Ribosomes, Microbodies - Peroxisomes, Glyoxysomes, lysosomes and cell inclusions. 1.4 Organization of nucleus: nuclear envelope, nucleoplasm and nucleolus	K1 – K5	13	1-5
2	Organization of DNA and Chromosome 2.1 Gene: Definition, Cistron, Recon and Mutan 2.2 Organization of a gene in prokaryotes and eukaryotes 2.3. Structure of Nucleic acid: DNA and RNA - types and classification 2.4 Chromosomal nomenclature - chromatids, centromere, telomere, satellite, secondary constriction. Organization of chromosomes. 2.5 Giant Chromosomes - Lamp brush chromosomes and polytene chromosomes - Karyotype and Idiogram.	K1 – K5	13	1-5
3	Cell Division 3.1 Cell Cycle G0, G1, S and G2 phases– 3.2 Amitosis - Mitosis – significance of Mitosis 3.3 Meiosis – Genetic significance of Meiosis 3.4 Mitotic abnormalities 3.5 Apoptosis	K1 – K5	13	1-5
4	DNA Replication in prokaryotes and DNA repair 4.1 Semiconservative method of replication: The Meselson –Stahl experiment 4.2 Polymerases and other enzymes and proteins involved in replication - Replication apparatus. 4.3 Steps involved in DNA replication – unwinding – Initiation - Replication forks - leading strand and lagging strand synthesis – Proof reading and error correction during replication. 4.4 DNA repair: Thymine dimer formation - light dependent repair: photo reactivation - light independent repair: excision repair, post replication recombination repair and SOS repair.	K1 – K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Gene expression and Gene regulation in Prokaryotes 5.1 Characteristics of genetic code - Deciphering of genetic code 5.2 Transcription in Prokaryotes: Initiation, Elongation and Termination 5.3 Translation in prokaryotes 5.4 Gene regulation in prokaryotes - structure and function of <i>lac</i> operon and <i>trp</i> operon	K1 – K5	13	1-5

BOOK FOR STUDY

Verma, P.S. and V. K. Agarwal, 2006. *Cell and Molecular Biology*, 8th Edition, S. Chand & co., New Delhi - 110 055, 567 pp.

Verma, P.S and V.K. Agarwal, V.K. 2004. *Cell Biology, Genetics Molecular Biology, Evolution and Ecology*. S. Chand and Co. New Delhi.

VeerBala Rastogi, Introductory cytology. Kedar Nath Ram Nath. Meerut 250 001.

BOOKS FOR REFERENCE

Benjamin, L. *Genes IX*, New York: Oxford University, 2014.

Bruce Alberts. *Essentials of Cell Biology*. New York: Garland Science, 2008.

Chhazllani V. K., *Plant Cell Biology*. Delhi: Manglam, 2011.

David P. Clark. *Molecular Biology*. New York: Elsevier, 2005.

David Freifielder, 1997. *Molecular Biology*. Narosa Publications. New Delhi.

De Robertis, E.D.P, and De Robertis. E.M.F. *Cell and Molecular Biology*, (6th ed.) Philadelphia: W.B. Saunders College, 2007.

Geoffrey, M. Cooper and Robert, E. Hausman. *The Cell*. (4th ed.), USA : ASM, 2007.

Karp, G. *Cell and Molecular Biology*. New York: John Wiley, 2007.

Morris M. D. *Molecular Biotechnology* CBS New Delhi, 2016.

Polard, F.D., W.C. Earnshaw and J.L. Schwartz. *Cell Biology*. Philadelphia: Saunders, 2008.

Preeti Mehta. *Understanding Molecular Biology* Narosa, 2016.

Hardin J. and Bertoni G. 2017. *Becker's World of the Cell*. 9th Edn (Global Edition). Pearson Education Ltd., p.923.

Karp G., Iwasa J. and Masall W. 2015. *Karp's Cell and Molecular Biology Concepts and Experiments*. 8th Edn. John Wiley and Sons. p.832.

Cooper G.M.. *The Cell – A Molecular Approach*, 8th Edn., Sinauer Associates Inc., Oxford University Press p.813. 2019

Albert B., Hopkin K., Johnson A.D., Morgan D., Raff M., Roberts K. and Walter P.. *Essential Cell Biology*, 5th Edn., (paperback) W.W. Norton & Company p.864. 2018

Alberts B., Johnson B., Lewis J., Morgan D., Raff M., Roberts K. and Walter P. *Molecular biology of cell*, 6th edn., Garland Science, Taylor and Francis, 2015

Challoner J. *The Cell: A visual tour of the building block of life*, The University of Chicago Press and Ivy Press Ltd., 2015

WEB RESOURCES

<https://www.khanacademy.org/test-prep/mcat/cells/eukaryotic-cells/a/organelles-article>
<https://microbenotes.com/types-of-microscopes/>
<https://www.khanacademy.org/science/ap-biology/heredity/meiosis-and-geneticdiversity/a/phases-of-meiosis>

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10(10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20(1 x 20 = 20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/CM54												
	Course Title: Cell and Molecular Biology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	-	3	2	3	2	3
CO 2	3	3	3	2	3	2	2	-	3	2	2	2	3
CO 3	3	3	3	2	3	2	2	-	3	2	3	3	3
CO 4	3	3	3	2	3	2	2	-	3	2	2	2	3
CO 5	3	3	3	2	3	2	2	-	3	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023-2024)

MICROBIOLOGY

CODE: 23BT/MC/MB54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- understand the characteristics of microbes and its effects on man and environment
- classify major groups of bacteria and compare the methods of genetic recombination
- apprehend the characteristics of viruses, their replication and their role in causing diseases
- understand the disease cycle of microbes and their impact on human beings
- elucidate the role and application of microbes in soil, air and water

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the microbial diversity; describe their classification, growth and replication	K1
CO2	classify the structural and functional characteristics of microbes and demonstrate their isolation and cultivation techniques	K2
CO3	illustrate the nutritional types of microbes, their disease cycle and assess the distribution of microbes in soil, water and air	K3
CO4	connect the morphology, replication of bacteria and virus; categorise the application of microbes in soil, water and air	K4
CO5	summerise the bacterial and viral morphology, their classification and interpret the disease cycle, control measures and application of microbes	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Microbiology 1.1 History of Microbiology 1.2 Germ Theory of Disease, Koch's Postulates, Whittaker's Five Kingdom Classification and Three Domain Concept of Carl Woese 1.3 Sterilisation Techniques – Pure culture techniques 1.4 Microbial staining techniques – Simple, Acid fast and Gram's staining 1.5 Nutritional Types and Types of Media	K1- K5	12	1-5
2	Bacteria 2.1 Classification (Bergey's Manual), Outlines of major groups only 2.2 Bacterial Morphology: Cell Wall, Capsule, Flagella, Fimbriae, Nucleus, Plasmids Endospore and Storage Granules 2.3 Bacterial Growth: Kinetics, Growth Curve, Factors Affecting Growth 2.4 Control of Microorganisms: Physical Agents - Temperature (high and low), Dessication, Filtration and Radiation, Chemical – Halogens, Alcohols, Preservatives – Natural (Salt & Sugar) Chemical (Sorbates, Benzoate, Sulfur dioxide) 2.5 Genetic Recombination: Conjugation, Transformation and Transduction	K1- K5	15	1-5
3	Viruses 3.1 General Properties of Viruses, Classification (Baltimore) Cultivation, Purification and Assay (Plaque Formation) 3.2 Vaccination – Vaccina, BCG, MMR, DPT 3.3 Structure: Virion Size, Helical Capsid, Icosahedral Capsid and Viral Envelope 3.4 Replication: Bacteriophages (Lytic and Lysogenic Cycles), Plant Virus (Tobacco Mosaic Virus, Potato Virus Y) and Animal Virus (Herpes Simplex Virus and Retro Virus) 3.5 Prions, Viroids and Virusoids	K1- K5	15	1-5
4	Microbiology of Soil and Food 4.1 Role of Bacteria, Fungi and Actinomycetes in Composting 4.2 Biogeochemical Cycle: Nitrogen, Phosphorous and Carbon 4.3 Applications of VAM in Forestry and Agriculture 4.4 Etiology, Incubation period, Symptoms, Control and Prevention of <i>Clostridium botulinum</i> , <i>Staphylococcus aureus</i> , <i>Salmonella</i> and <i>Bacillus cereus</i>	K1- K5	11	1-4

UNIT	CONTENT	CL	Hrs	CO
5	Microbiology of Water and Air 5.1 Microbiology of domestic water and sewage 5.2 Purification of drinking water, sewage treatment and disposal 5.3 Distribution and Sources of Air Borne Organisms 5.4 Enumeration of Microorganisms in Air - Sampling Techniques	K1- K5	12	1-5

BOOK FOR STUDY

Powar, C.B., and H.F.Daginawala. *General Microbiology* - Vol. II, Mumbai: Himalaya, 2010.

BOOKS FOR REFERENCE

Ananthanarayanan and J.Paniker, *Textbook of Microbiology*, 10th edition, 2018.
 Gerard J.Tortora, B.R.Funke and C.L.Case, *Microbiology*. 11th edition, 2016.
 Hogg, S. *Essentials Microbiology*. England: John Wiley, 2013. Joanne M Willey., *Microbiology*. MC Graw- Hill, 2011.
 Kathleen P.Talaro and Berry Chess, *Foundations in Microbiology*. McGraw-Hill, 2012.
 Maier, R.M., I.L. Pepper and C.P. Gerba. *Environmental Microbiology*. U.S.A: Academic, 2006.
 Pelczar, J.Michael, (Jr.), D.Reid, Roger, E.C.S.Chan and Kreig, *Microbiology*. New Delhi: Tata McGraw – Hill, 5th edition, 2023.
 Panda S.C., *Principles and Practices of Water Management*. Agrobios, 2011.
 Patwardhan, A.D., *Industrial Waste Water Treatment*. 12th edition, 2017.
 Presscot, L.M., P.H. John and D.A. Klein, *Microbiology*. U.S.A.: W.M. Brown, 12th edition, 2022.
 Subbarao, N.S., *Soil Microbiology*. 5th edition, 2017.

JOURNALS

Folia Microbiologia
 Microbiology
 Indian Journal of Microbiology
 Plant Microbes Symbiosis: Applied Facets
 International Microbiology
 Journal of Industrial Microbiology and Biotechnology
 Journal of Aerobiologia
 Indian Journal of Aerobiology

PATTERN OF ASSESSMENT**No Unit should be left out****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6 = 6)
	K4 / K4	18 or 19	6 (1 x 6 = 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/MB54												
	Course Title: Microbiology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	2	2	3	2	3	3
CO 2	3	3	3	2	3	3	3	2	2	3	2	3	3
CO 3	3	3	3	2	3	3	3	2	2	3	2	3	3
CO 4	3	3	3	2	3	3	3	2	2	3	2	3	3
CO 5	3	3	3	2	3	3	3	2	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

ECOLOGY AND ENVIRONMENTAL BIOTECHNOLOGY

CODE: 23BT/MC/EE54

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to

- provide a comprehensive knowledge on Plant Communities
- understand and appreciate the interaction between biotic and abiotic components
- discuss the health hazards of toxic chemicals released in the environment
- apprehend the use of biological organisms as agents of environmental monitoring
- give an insight into the risk of pollutants and their impacts on the ecosystem

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand and recall the knowledge on community ecology; define ecosystems; recognize the risk of pollutants and their impacts on the ecosystem	K1
CO2	describe and interpret floristic communities; the need for sampling analysis; associate the ecological interactions and adaptations, and risk of pollutants	K2
CO3	integrate the techniques for gathering data from the field and analyze the various components of plant diversity and relate the impact of environmental toxicology	K3
CO4	distinguish the plant populations; categorise their ecological adaptations; prioritise the hazards of the toxic chemicals released in the environment, bioremediation and connect the need for Environmental assessment	K4
CO5	compile the technologies, tools and techniques in the field of ecology and evaluate the implications of legislations and policies for environmental protection	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Ecology and Ecosystem 1.1 Ecology – basic concepts of ecology 1.2 Ecosystem: structure and function - Biotic and Abiotic Components 1.3 Energy flow-Food chain, food web, and ecological pyramids 1.4 Aquatic (Pond) and Terrestrial (Grass land) Ecosystems 1.5 Ecological Adaptations- Hydrophytes, Xerophytes and Halophytes	K1-K5	10	1-5
2	Plant Communities and Biodiversity conservation 2.1 Characteristics of community- Raunkiaer's Life forms. 2.2 Study of plant community structure: Qualitative and Quantitative structure of plant communities 2.3 Quantitative analysis of plant communities: Quadrat, Transect, Loop and point method 2.4 Biodiversity and its conservation: introduction - Types and value of biodiversity- Hotspots - Threats to biodiversity- conservation of biodiversity.	K1- K5	10	1-5
3	Environmental Pollution and monitoring 3.1 Definition, causes, effects and control measures of air, water and soil pollution 3.2 Global warming and climate change 3.3 Environmental Impact Assessment (EIA) 3.4 Environmental Quality Monitoring of Air and Water 3.5 Environmental Risk Assessment 3 6 Eco restoration and GIS	K1- K5	10	1-5
4	Bioremediation 4.1 Definition and principles of bioremediation. 4.2 Bioremediation mechanisms 4.3 Technology of bioremediation: in situ and ex situ Bioremediation 4.4 Phytoremediation 4.5 Structure and development of Biofilm and its role in bioremediation	K1- K5	11	1-5
5	Bioremediation: A Promising Environmental Technology for pollution Cleanup 5.1 Biodegradation of petroleum hydrocarbon 5.2 Biodegradation of Xenobiotic compounds: DDT and TCE 5.3 Solid waste management: Composting & vermicomposting 5.4 Biological Removal of heavy metals using Bio-sorption. 5.5 Purification of polluted air using bio-filters 5.6 Biomining and Bioleaching	K1- K5	11	1-5

BOOK FOR STUDY

Sharma P. D. *Environmental Biology and Toxicology*. India: Rastogi Publications, 2014.

BOOKS FOR REFERENCE

Arumugam, N., *Ecology and Toxicology*. Saras Publication. 2010.

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd edition) Universities Press, 2013.

Bhatia S.C., *Environmental Ecology*. Agrotech. 2013..

Bhatta Basudeb, *Remote Sensing and GIS*, 2nd Revised Edition, Oxford University Press. 2012.

Bhattacharya, K.S., Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt. Ltd., New Delhi: 2015.

Kumaresan, V and N. Arumugam. *Plant Ecology and Phytogeography*. Saras Publication. 2012.

Kumaresan, V and N. Arumugam. *Environment and Pollution*, Saras Publication, 2016.

Saha, T.K., *Ecology and Environmental Biology*, Kolkata: Books and Allied (P) Ltd., 2016.

Verma, P.S., *Environmental Biology and Principles of Ecology*. India: S.Chand, 2000.

JOURNALS

International Journal of Ecology and Environmental Sciences

EIACP centre on Environmental Biotechnology

Applied Environmental Education and Communication

Environmental Biotechnology

WEB RESOURCES

www.eattheweeds.com

openfarmtech.org greenpeace.org wwf.org

foe.co.uk- Friends of the Earth

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6 = 6)
	K4 / K4	18 or 19	6 (1 x 6 = 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/EE54												
	Course Title: Ecology and Environmental Biotechnology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

CELL AND MOLECULAR BIOLOGY, MICROBIOLOGY, ECOLOGY AND ENVIRONMENTAL BIOTECHNOLOGY - PRACTICAL

CODE: 23BT/MC/P553

CREDITS: 3

L T P: 0 0 6

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

To enable the students to

- identify and recall the knowledge acquired in Cell and Molecular Biology, Microbiology and Ecology and Environmental Biotechnology
- differentiate the cultures using Gram's staining technique
- elucidate the process of cell division through squash and smear technique
- acquire the skill of quantifying a population using various sampling methods
- gain expertise on various techniques of microbial inoculation and isolation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the knowledge acquired in Cell and Molecular Biology; understand the techniques in Microbiology and classify the sampling methods in Ecology	K1
CO2	illustrate Gram's staining technique using the given culture and differentiate the types of bacteria	K2
CO3	apply and analyse the skill of quantifying a population and to compute the various sampling methods	K3
CO4	analyse and infer the various stages of cell division through squash and smear techniques	K4
CO5	evaluate the various methods of inoculation and elucidate the microbes using isolation techniques	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	CELL AND MOLECULAR BIOLOGY <ol style="list-style-type: none"> 1. Squash and Smear Techniques 2. Identification of Various Cell Organelles through Photomicrographs Demonstration Experiments <ol style="list-style-type: none"> 3. Extraction of DNA from Onion Cells 4. Demonstrations: Plasmid DNA - Electrophoresis, Restriction Enzyme 5. Preparation of Polytene chromosomes from the salivary gland of Chironomus larvae 	K1-K5	26	1-5
2	MICROBIOLOGY <ol style="list-style-type: none"> 1. Demonstration of the working and use of Autoclave, Hot Air Oven, Water Bath and Laminar Air Flow 2. Pure Culture Techniques: pour plate, streak plate, spread plate, slant and stab 3. Preparation of Nutrient Media and Broth 4. Gram Staining 5. Hanging Drop Method 6. Antimicrobial Property using Antibiotic Discs / Turmeric Demonstration Experiments: <ol style="list-style-type: none"> 1. Effect of Temperature and pH on Bacterial Growth (Qualitative) 2. Isolation of Bacteria and Fungi from Soil on Various Media: Enrichment, Selective and Differential Media 3. Tests for Coliform -MPN 4. Methylene Blue Reductase Test 5. Wine preparation and estimation of Lactic Acid 	K1- K5	26	1-5
3	ECOLOGY AND ENVIRONMENTAL BIOTECHNOLOGY <ol style="list-style-type: none"> 1. Construction of Quadrat, Belt and Line Transect - Calculation of Frequency, Percentage, Density and Abundance 2. Morphological and Anatomical Adaptations of Hydrophytes, Xerophytes and Halophytes (any two in each category) Hydrophyte: any two Xerophyte: any two Halophyte: any one 	K1- K5	26	1-5

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Level
A	Spotter (Cell and Molecular Biology and Microbiology) and anatomical adaptations in Ecology	12	K1
B	Gram's staining and inoculation technique	10	K3
C	Sampling Techniques	9	K4
D	Squash Technique	9	K5
E	Submission of Record work	10	K2
Total		50	

End-Semester Examination:**Total Marks: 50****Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Level
A	Spotter (Cell and Molecular Biology and Microbiology) and anatomical adaptations in Ecology	12	K1
B	Gram's staining	8	K2
C	Sampling Techniques	10	K3
D	Squash/ Smear Technique	10	K4
E	Serial Dilution and Inoculation technique (pour plate/ streak plate/ spread plate/slant/stab)	10	K5
Total		50	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/P553												
	Course Title: Cell and Molecular Biology, Microbiology, Ecology and Environmental Biotechnology - Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	1	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	1	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by the Departments of Chemistry and Botany
to B.Sc. Chemistry and B.Sc. Plant Biology and Plant Biotechnology Degree
Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

BIOANALYTICAL TECHNIQUES

CODE:23ID/IC/BA55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

To enable the students to

- understand the essence of microscopy, centrifugation, separation methods and spectroscopic techniques
- gain comprehensive understanding of extraction & separation methods and spectroscopic characterisation of the sample
- gain in-depth knowledge on the various steps involved in processing of plant tissues using microtechniques
- to analyse and solve problems relating to texture, separation, extraction, composition of a sample by introducing learned concepts
- develop the skills and practice of different bioanalytical techniques.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamentals of microscopy, centrifugation & electrophoresis, separation methods and spectroscopic techniques	K1
CO2	illustrate the knowledge of microscopy, centrifugation & electrophoresis, separation methods and spectroscopic techniques	K2
CO3	analyze the microscopic images, plant specimen preparation, the separation method from yield of precipitate and spectroscopic data	K3
CO4	evaluate the texture of the substance, amount of substance in the sample by gravimetry and spectroscopic techniques	K4
CO5	integrate the results from microscopy, separation methods and spectroscopic data of the sample material	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Microscopy: Principle, Construction and Application 1.1 Light microscopes – Compound, Phase Contrast, Differential Interference Contrast and Confocal Microscopes. 1.2 Preparation of Specimen for Light Microscopy – Paraffin Techniques – Fixatives: FAA, Carnoy's, Dehydration and Infiltration, Embedding and Sectioning (Paraffin Blocks), Staining and Mounting. 1.3 Electron Microscopes – TEM, specimen preparation for TEM. 1.4 Maceration and leaf clearing	K1-K5	16	1-5
2	Centrifugation and Electrophoresis 2.1 Principle, types and applications of Centrifuge. 2.2 Density gradient and Differential Centrifugation. 2.3 Electrophoresis: Principle, Techniques and applications of Agarose gel electrophoresis, Polyacrylamide gel electrophoresis 2.4 Immunoelectrophoresis.	K1-K5	15	1-5
3	Separation Techniques 3.1 Separation by solvent extraction: Nernst distribution law, Principle of Extraction by chemically active solvents, Soxhlet extraction, Factors Influencing the Extraction Efficiency. 3.2 Gravimetric analysis: Separation by Precipitation-Nucleation, Crystal Growth, Solubility Product, Principle, Factors affecting Solubility, Purity of Precipitates, Co-precipitation and Post Precipitation methods of Filtering, Drying- Ignition & Incineration of Precipitate. 3.3 Chromatography - GC and HPLC-Principle, instrumentation and application-quality control, air pollution, food analysis comparison of GC & HPLC	K1-K5	16	1-5
4.	Spectroscopic Techniques and Spectrochemical Methods 4.1 Introduction to Spectroscopy, Beer-Lambert's law statement and deviation; UV- Visible-instrumentation and applications-estimation of Mn	K1-K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	4.2 Nephelometry and Turbidimetry- Principle, Instrumentation and Applications- determination of TDS of water sample 4.3 Principle, Instrumentation and Applications - Atomic absorption Spectroscopy (estimation of Ca), Flame photometry (estimation of K/Na) and Fluorimetry (estimation of Fluorescein)			
5.	Practical Demonstration experiments Botany <ul style="list-style-type: none"> • Techniques of maceration and leaf clearing • Preparation of permanent slide using plant specimen • Isolation of chloroplast by differential centrifugation • Separation of DNA using Agarose gel electrophoresis Chemistry <ul style="list-style-type: none"> • Verification of Beer Lamberts law (KMnO_4) • Separation of organic compounds - benzoic acid and benzaldehyde in ether • Estimation of Ca -AAS • Estimation of fluorescein- Fluorimetry • Gravimetric estimation of Ba as BaCrO_4 	K1-K5	16	1-5

BOOKS FOR STUDY

Bajpai, P.K. *Biological Instrumentation and methodology*. S. Chand & Co. Ltd, 2006.
 Gopalan, R, Subramanian, P.S and Rengarajan, K. *Elements of Analytical Chemistry*. New Delhi: Sultan Chand, 2004.
 Skoog, D.A, West, D.M., Holler, F.J., Crouch, S.R., *Fundamentals of Analytical Chemistry*. Cengage, 2022.
 Steven, E Ruzin, *Plant Microtechnique and Microscopy*, USA: Oxford University, 1999.
 Jensen, W.A. *Botanical Histochemistry*. New Delhi: Tata Graw – Hill, 1962.
 Mendhan, J., *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson 2009.
 Upadhyay A, Upadhyay K, Nath N 2023. *Biophysical Chemistry: Principles and Techniques*. Himalaya Publishing House, Delhi.

BOOKS FOR REFERENCE

Beckman Coulter, Daniel, C Liebler. *Introduction to Proteomics: Tools for new biology*, Human, 2002.
 Karp Gerald. *Cell and Molecular Biology: Concepts and Experiments*. USA: Wiley, 2013.
 Skoog, Douglas A, James F. Holler & Timothy A. Nieman. *Principles of Instrumental Analysis*. Singapore: Haracourt Asia, 2001.
 Usharani, S. *Analytical Chemistry*. New Delhi: Macmillan, 2006.
 Christian, G.D., *Analytical Chemistry*, 6th Edition, Wiley Student Edition, 2007
 Wilson K and Walker J. *Biochemistry and Molecular Biology*. Cambridge University Press. 2005

WEB RESOURCES

<https://collegedunia.com/exams/gravimetric-analysis-chemistry-articleid-2957>

<https://www.wiredchemist.com/chemistry/instructional/laboratory-tutorials/gravimetric-analysis>

<https://www.atascientific.com.au/spectrometry/https://chemcollective.org/chem/ubc/exp01/>

https://researchrepository.griffith.edu.au/bitstream/handle/10072/34561/62679_1.pdf

<https://edu.rsc.org/eic>

<https://pubs.acs.org/journal/jceda8>

<https://www.khanacademy.org/>

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment: Total Marks: 50

Duration: 90 minutes

Botany-25 Marks and Chemistry -25 Marks each

Section	Cognitive Level	Marks	Pattern
A	K1	4	$4 \times 1 = 4$ (4 MCQs)
B	K2	3	$3 \times 1 = 3$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	6	$2 \times 3 = 6$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	6	$2 \times 3 = 6$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	6	$1 \times 6 = 6$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component: Total Marks: 50

Botany-25 Marks and Chemistry -25 Marks each

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Botany- 50 Marks and Chemistry -50 Marks each – (to be written in separate answer scripts)

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/BA55												
	Course Title: Bioanalytical Techniques												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	3	2	3	2	1	1	3
CO 2	3	3	3	1	3	3	3	2	3	2	2	2	3
CO 3	3	3	3	1	3	3	3	2	3	2	1	1	3
CO 4	3	3	3	1	3	3	3	2	3	2	2	2	3
CO 5	3	3	3	1	3	3	3	2	3	2	1	1	3
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

PLANT PHYSIOLOGY

CODE: 23BT/MC/PP64

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to

- recall water relations in plants with respect to various physiological processes
- understand the mineral nutrition and deficiency symptoms in plants and the physiology of nitrogen fixation
- explain the functional mechanism of plants and significance of photosynthesis
- understand the mechanism of respiration in plants
- assess photoperiodism, dormancy and germination in plants

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the water relations in plants, its importance in mineral nutrition and define the mechanism of photosynthesis, respiration, photoperiodism and seed dormancy	K1
CO2	interpret the process of transpiration, nitrogen metabolism, photosynthesis and respiration and summarise the role of phytohormones and vernalization	K2
CO3	illustrate the water potential, Physiology of Nitrogen fixation, photosynthesis and respiration in plants and interpret the role and deficiency of nutrients in plant growth and applications of phytohormones	K3
CO4	analyse the significance of water potential, transpiration, photophosphorylation and cellular respiration and assess plant growth regulators and physiology of flowering	K4
CO5	summerise the various physiological process, the mechanism of photophosphorylation reactions and respiration and compile the role of Phytohormones and Physiology of flowering	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Water Relations in Plants 1.1 Water Potential: Imbibition, Diffusion, Osmosis, Plasmolysis, Diffusion Pressure Deficit (DPD), Osmotic Pressure and Turgor Pressure 1.2 Ascent of Sap 1.3 Transpiration: Definition, Significance and Mechanism of Stomatal Transpiration, Starch - Sugar Interconversion, Synthesis of Organic Acid in Guard Cells, ATP driven H ⁺ and K ⁺ Exchange Pump, Role of ABA in Stomatal opening and closure, Factors affecting Transpiration (internal and external) 1.4 Water Movement across the Root and Xylem - Active and Passive Absorption	K1-K5	10	1-5
2	Mineral Nutrition 2.1 Macronutrients and Micronutrients – Role and its deficiency in plants 2.2 Absorption and Transportation Theories; Carrier Concept and Cytochrome Pump Theory, Transport of Organic Solutes: Phloem Loading and unloading 2.3 Sources of Nitrogen; Physiology of Nitrogen fixation, Nitrate and Nitrite Reduction, Assimilation of Nitrite and Ammonium, GOGAT Pathway	K1- K5	10	1-5
3	Photosynthesis 3.1 Light Reaction: Action and Absorption spectrum, Red Drop, Emerson Enhancement Effect, Pigment System I and II, Phosphorescence and Fluorescence 3.2 Photophosphorylation, CO ₂ assimilation pathway: C ₃ , C ₄ cycle, CAM and Photorespiration 3.3 Factors influencing Photosynthesis	K1- K5	10	1-5
4	Respiration 4.1 Glycolysis, Substrate level Phosphorylation, Entner - Doudroff Pathway, Glyoxylate Cycle 4.2 Krebs Cycle, Electron Transport Pathway, Oxidative Phosphorylation and Cyanide Resistant Pathway 4.3 Respiratory Quotient	K1- K5	11	1-5
5	Phytohormones and Physiology of Flowering 5.1 Phytohormones – Chemical Nature, Bioassay (one only), Physiological Effect and Practical Applications of the following Plant Growth Regulators: Auxin, ABA, Cytokinin, Gibberellic Acid and Ethylene 5.2 Photoperiodism 5.3 Vernalization 5.4 Seed dormancy: Causes and breaking of seed dormancy	K1- K5	11	1-5

BOOK FOR STUDY

Jain,V.K. *Fundamentals of Plant Physiology*. New Delhi: Chand, 2013.

BOOKS FOR REFERENCE

Bidwell, R.G.S. *Plant Physiology*. New York: Macmillan, 1983.
Devlin.R.M. *Plant Physiology*, New Delhi: Affiliated East, 2017.
MalcomWilkins.B. *Advanced Plant Physiology*. England: ELBS/Longman, 1968.
Mukherji, S. and A.K.Ghosh. *Plant Physiology*I. Kolkatta: New Central, 2004.
Noggle, G. Ray and G.J.Fritz. *Introductory Plant Physiology*. New Delhi: CBS, 2012.
Salisbury, F.B and C.Ross. *Plant Physiology*. New Delhi: Prentice Hall. 2014.
Sinha, R.K. *Modern Plant Physiology*. New Delhi: Narosa, 2015.
Taiz,L and E.Zeiger. *Plant Physiology and Development*. New Delhi: Panima, 2018.
Weston, G.D. *Crop Physiology – Biotechnology*. London: Butterworth – Heinemann, 2021.
William.G.Hopkins, *Introduction to Plant Physiology*, Wiley, 2014.

JOURNALS

Journal of Plant Physiology (Elsevier)
International Journal of Plant Physiology and Biochemistry
Indian Journal of Plant Physiology

WEB RESOURCES

www.journals.elsevier.com
www.springer.com
www.academicjournals.org

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 =10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 =20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/PP64												
	Course Title: Plant Physiology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	-	3	3	2	3	3
CO 2	3	3	3	2	3	3	3	-	3	3	2	3	3
CO 3	3	3	3	2	3	3	3	-	3	3	1	3	3
CO 4	3	3	3	2	3	3	3	-	3	3	2	3	3
CO 5	3	3	3	2	3	3	3	-	3	3	1	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE:
BRANCH V. A. PLANT BIOLOGY AND PLANTBIOTECHNOLOGY**

SYLLABUS
(Effective from the academic year 2023-2024)

PLANT BIOTECHNOLOGY

CODE: 23BT/MC/PB64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to

- study the fundamental principles of tissue culture
- understand the applied aspects of Plant Biotechnology and Genetic Engineering
- gain knowledge on molecular techniques used in crop improvement and compile its applications in biotechnology
- understand the molecular techniques used in genetic engineering

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the techniques of plant tissue culture, recall the basics of genetic engineering and gene transfer in plants and list the applications in biotechnology	K1
CO2	demonstrate plant tissue culture techniques, interpret gene transfer methods in plants and distinguish various methods in rDNA technology	K2
CO3	illustrate plant genome organization, demonstrate various methods of gene transfer in plants and relate its application in biotechnology.	K3
CO4	categorize different types of plant tissue culture, Compare and contrast gene expression in plants, infer the highlights of rDNA technology	K4
CO5	summarise the concept of plant tissue culture, evaluate various molecular techniques used in crop improvement and compile its applications in biotechnology	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Tissue Culture 1.1 Totipotency, Differentiation, Dedifferentiation, Redifferentiation, Culture techniques: sterilization, inoculation, incubation, acclimatization, organogenesis, embryogenesis and regeneration 1.2 Organ culture: Shoot Culture, Anther and Embryo Culture 1.3 Cell culture: Single cell culture, Suspension culture and synthesis of synthetic seeds 1.4 Somatic Hybridization: Protoplast Culture: Isolation, Culture and Fusion: Spontaneous and Induced Fusion, Identification and Selection of Hybrid Cells 1.5 Somaclonal Variation	K1- K5	12	1-5
2	Plant molecular biology 2.1 Plant Genome Organization 2.2 Gene expression – Post transcriptional and Post translational modification 2.3 Chloroplast genome	K1- K5	12	1-5
3	rDNA technology 3.1 Introduction to Genetic Engineering 3.2 Techniques: Restriction Endonucleases, Ligation, Electrophoresis, Blotting 3.3 Hybridization, Autoradiography, PCR, DNA sequencing – Sanger's method	K1- K5	10	1-5
4	Gene transfer in Plants 4.1 Cloning Vectors: pUC 18, YAC and BAC 4.2 Ti Plasmid 4.3 Gene Transfer Technique using Agrobacterium 4.4 Physical Delivery Methods: PEG stimulated, Ballistics (Particle gun), Electroporation, Microinjection	K1- K5	10	1-5
5	Applications in Biotechnology 5.1 Transgenic Plants for Crop Improvement: Insect Resistance 5.2 Transgenic Plants - Edible Vaccines 5.3 Molecular markers (RFLP, RAPD) in crop improvement program 5.4 Bioethics and Biosafety	K1- K5	8	1-5

BOOK FOR STUDY

Satyanarayana, U. *Biotechnology*. Kolkata, 2015.

Kalyan Kumar De., *Plant Tissue Culture* – New Central Book Agency (P) Ltd., Calcutta, 2008

BOOKS FOR REFERENCE

- Anand Prakash., *Plant Tissue Culture*. SBW, 2014.
- Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K., and Walter, P., *The Molecular Biology of the cell*. 5th edition. Garland Science Taylor and Francis Group. 2008
- Dubey, R.C. *A Text book of Biotechnology*. New Delhi: S.Chand, 2008
- Gupta P. K. 2019. *Elements of Biotechnology*. Rastogi Publications.
- Meerut. Ignacimuthu, S.J. *Biotechnology –An Introduction*. New Delhi:
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- Purohit, S, S. and S. K. Mathur. *Biotechnology - Fundamentals and Applications*. Agrobios. 2000.
- Renuka Sharma., *Transgenic Crops*. Discovery,
2013. Sharma H.P., *Plant Tissue Culture*.
- Agrobios, 2012.
- Sanjay Kumar Sharma. *Plant Tissue Culture*. Book Enclave Jaipur, 2016.
- Treven, M.D.S. Baffery, R.H. Goulding and F. Standbury. *Bio-Technology – The biological principles*. New Delhi: .Tata-McGraw, Hill, 2011.

JOURNALS

Journal of Plant Biotechnology
Journal of Plant Molecular Biology &
Biotechnology
Journal of Genetic Engineering
and Biotechnology
International Journal of
Genetic Engineering

WEB RESOURCES

www.greenpeace.org
<https://www.cambridge.org/core/journals/genetics-research/article/principles-of-genemanipulation-and-genomics-7th-edition>
[www.genengnews.co](http://www.genengnews.com)
m
[www.sustainabletable.](http://www.sustainabletable.org)
org
www.iari.res.in
www.nipgr.res.in

PATTERN OF ASSESSMENT**No Unit should be left out****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6 = 6)
	K4 / K4	18 or 19	6 (1 x 6 = 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/PB64												
	Course Title: Plant Biotechnology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	2	3	3	2	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	2	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	2	3	3
CO 4	3	3	3	2	3	3	3	2	3	3	2	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

GENETICS, PLANT BREEDING AND EVOLUTION

CODE: 23BT/MC/GP64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- understand the Mendelian laws of genetics and gene interaction
- discuss the concept of linkage and crossing over and to discuss the sex determination
- describe the types and significance of mutation and polyploidy
- explain the principles of plant breeding, selection methods and hybridization
- understand the various aspects of evolution including organic and syntetic evolution theories

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts of Genetics and Evolution; describe the significance of mutation ad polyploidy and understand the role of plant breeding in crop improvement	K1
CO2	distinguish the pattern of inheritance and the theories of evolution and interpret the significance of plant breeding	K2
CO3	illustrate the genetic interactions with examples and various aspects of evolution; the demonstrate the need of mutation, polyploidy and plant breeding	K3
CO4	categorise the role of genes in inheritance; approaches involved in theories of evolution and to relate the mutation and polyploidy in plant breeding	K4
CO5	summerise the basic concepts of genetics and evolution; evaluate the role of mutation and polyploidy and devise suitable techniques for crop improvement	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Basic Concepts of Genetics-I 1.1 Mendelian Genetics: Law of Segregation, Law of Independent Assortment, Monohybrid cross and Dihybrid cross 1.2 Gene interactions: Allelic - Incomplete dominance. Co-dominance and Lethal genes. Non-Allelic: complementary, supplementary, Epistatic and Duplicate genes. 1.3 Multiple Gene Inheritance – Kernel colour in Maize 1.4 Multiple alleles: Petal colour in Asiatic cotton and self-sterility in Tobacco.	K1-K5	13	1-5
2	Basic Concepts of Genetics-II 2.1 Linkage and crossing over: types, theories and significance 2.2 Chromosome mapping (three point test cross) 2.3 Sex linked inheritance – Colour Blindness and Hemophilia 2.4 Sex determination in Plants 2.5 Extra chromosomal inheritance: Plastid inheritance in <i>Mirabilis jalapa</i> and cytoplasmic male sterility in plants.	K1- K5	13	1-5
3	Mutation and Population Genetics 3.1 Types of mutations: Point mutation and Chromosomal mutation 3.2 Mutagens and Mutagenesis: physical, chemical and biological mutagens 3.3 Detection of Mutation: Muller's CIB Technique 3.4 Chromosomal aberrations: deficiency, duplication, Inversion and translocation. 3.5 Population Genetics: Introduction, Hardy-Weinberg Law, its significance and applications. Hardy- Weinberg equilibrium - Role in evolution.	K1- K5	13	1-5
4	Plant Breeding 4.1 Introduction – objectives, activities and achievements in Plant breeding 4.2 Domestication and Plant introduction 4.3 Selection Methods – Mass, Pure line and Clonal selection 4.3 Basic Hybridization Techniques 4.4 Hybrid vigour 4.5 Polyploidy: introduction, types, induction and role of Polyploidy in crop improvement	K1- K5	13	1-5
5	Evolution 5.1 Origin of Life – Spontaneous and Chemosynthetic 5.2 Theory of Inheritance of Acquired characters (Lamarckism) 5.3 Theory of Natural Selection (Darwinism) 5.4 Mutation theory of De Vries 5.5 Synthetic theory of evolution and Speciation	K1- K5	13	1-5

BOOK FOR STUDY

Verma, P.S., V.K. Agarwal *Cell Biology, Genetics, Molecular Biology, Evolution and Ecology* New Delhi: S.Chand, 2014

BOOKS FOR REFERENCE

- Benjamin, L. *Genes IX*. New York: Oxford University, 2014.
Chahal, G.S. and Gosal, S.S. *Principles and Procedures of Plant Breeding, -Biological and Conventional Approaches* New Delhi: Narosa Publishing House Pvt. Ltd. 2015.
Daniel L Harti., *Essential Genetics*. Jones and Bartlett, 2014.
Kumar Sushil, *Plant Breeding and Genetics*, Jaipur, Book Enclave, 2016.
Kumaresan, V. *Plant Breeding*. Nagercoil: Saras. 2009.
Mann Rosanna, *Human Genetics and Genomics*, Callisto Reference, ,2017.
Rastogi Veer Bala, *Organic Evolution*, Medtech, 2016.
Singh, M.P. and Sunil Kumar, *Genetics and Plant Breeding*, Vol .I & II New Delhi, APH Publishing Corporation, 2016.
Trivedi Dipali, J. *Human Genetics*, 2016.
Zingare A. K, *Plant Breeding and Seed Saving*. New Delhi: Satyam, 2013.

WEBSITES

www.genome.gov/12514286
www.dnalc.org www.kumc.edu/gec
www.mendelweb.org

JOURNALS

Journal of Plant Breeding and Genetics
Indian Journal of Plant Breeding and Genetics
Journal of Plant Breeding and Crop Science
Journal of Plant Science
International Journal of Organic Evolution
Journal of Human Evolution
Journal Molecular Biology and Evolution
Journal of Plant Systematics
Journal of Botany

PATTERN OF ASSESSMENT**No Unit should be left out****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice)Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/GP64												
	Course Title: Genetics, Plant Breeding and Evolution												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	2	3	3	1	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	1	3	3
CO 3	3	3	3	2	3	3	3	2	3	3	1	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	1	3	3
CO 5	3	3	3	2	3	3	3	2	3	3	1	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

**PLANT PHYSIOLOGY, PLANT BIOTECHNOLOGY AND GENETICS,
PLANTBREEDING AND EVOLUTION - PRACTICAL**

CODE: 23BT/MC/P663

CREDITS: 3

L T P: 0 0 6

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

To enable the students to

- recall the functional mechanism in plants and their significance
- understand the concept and techniques of plant tissue culture
- relate the various physiological processes with respect to light, temperature and growth regulators
- understand the interaction of genes and relate it with gene mapping
- gain knowledge on the techniques of plant breeding for crop Improvement

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify and enumerate the techniques in plant biotechnology and plant breeding	K1
CO2	interpret and explain the physiological set up	K2
CO3	apply the knowledge to solve the problem based on interaction of genes and sequence the location of genes on chromosomes	K3
CO4	analyse the tissue culture technique and demonstrate the same using an explant	K4
CO5	asses the principle involved in plant physiology experiment and interpret their results	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	PLANT PHYSIOLOGY <ol style="list-style-type: none"> 1. Determination of Osmotic Pressure using Plasmolytic Method 2. Determination of Water Potential by Dye method 3. Effect of Environmental Factors on Transpiration - Light and Wind 4. Effect of Quality of Light on the Rate of Photosynthesis – Wilmott’s Bubbler Experiment 5. Separation of Chlorophyll Pigments by Paper Chromatography 6. Determination of Peroxidase Activity 7. Determination of the Rate of Respiration using Ganong’s Respiroscope DEMONSTRATION EXPERIMENTS <ol style="list-style-type: none"> 1. Colorimetric Estimation of Nitrate Reductase 2. Effect of Auxin on Root formation 3. Demonstration of Hill’s Reaction 4. Effect of temperature on Permeability 	K1-K5	26	1-5
2	PLANT BIOTECHNOLOGY <ol style="list-style-type: none"> 1. Tissue Culture Techniques <ol style="list-style-type: none"> a. Composition and Preparation of M.S. Medium - Shoot tip culture and Callus Culture b. Composition and Preparation Nitsch Medium - Anther Culture c. Composition and Preparation White’s Medium -Embryo Culture 2. Demonstration of protoplast isolation 3. Preparation of synthetic seeds 4. Photomicrographs in Genetic Engineering 5. Demonstration of SDS-PAGE 	K1- K5	26	1-5
3	GENETICS, PLANT BREEDING & EVOLUTION <ol style="list-style-type: none"> 1. Problems based on Interaction of Genes-Allelic and Non Allelic 2. Problems based on Gene Mapping 3. Demonstration of Hybridization techniques 4. Pollen germination and viability 5. Effect of toxic substances (Chemicals) on mutagenic property of Onion root 	K1- K5	26	1-5

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Level
A	Spotter (Plant Physiology (1), Plant Biotechnology (2) and Plant Breeding (1))	16	K1
B	Genetics - Problem	8	K3
C	Tissue Culture	8	K4
D	Plant Physiology – Experimental set up - Individual	8	K5
E	Submission of Record work	10	K2
Total		50	

End-Semester Examination:**Total Marks: 50****Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Level
A	Spotter (Plant Physiology (1), Plant Biotechnology (2) and Plant Breeding (1))	20	K1 & K2
B	Genetics - Problem	10	K3
C	Tissue Culture	10	K4
D	Plant Physiology – Experimental set up - Individual	10	K5
Total		50	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/MC/P663												
	Course Title: Plant Physiology, Plant Biotechnology, Genetics, Plant Breeding and Evolution - Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religious in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi- Canticle of creatures Seeking the Divine through meditation, prayer and worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

FRUIT PRESERVATION AND NUTRITION

CODE: 23BT/ME/FN45

CREDITS: 5

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- explain the methods of preservation in fruits and vegetables
- understand the nutritive value of fruits and vegetables
- elucidate the process of canning
- describe the steps involved in preparation of fermented beverages
- acquire practical skills in the preparation of various fruit products

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list the different methods of preservation of fruits and vegetables; enumerate its nutritive value and recall the process of canning and fermented beverages.	K1
CO2	classify the methods of preservation; interpret the nutritive value of fruits, understand the scientific basis of canning, fermented products and preparation of fruit products.	K2
CO3	demonstrate steps involved in canning and fermented beverages; explain the methods of preservation and discuss the principle involved in preparation of fruit products	K3
CO4	analyse the steps involved in canning and fermented beverages and compare and contrast preparation of various fruit products	K4
CO5	estimate and evaluate fruit product preparations, assess the methods of preservation and nutritive value of fruits and vegetables, criticize process of canning	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Nutritive Value of Fruits and Vegetables 1.1 Classification of Fruits 1.2 Minerals 1.3 Vitamins 1.4 Antioxidants 1.5 Pigments	K1-K5	13	1-5
2	Preservation of Fruits and Vegetables 2.1 Temperature- High and Low 2.2 Drying 2.3 Radiation – Radicidation, Radurization and Radappertization 2.4 Chemical Preservatives 2.5 Packaging of Fruits and Vegetables- CFB Boxes	K1-K5	13	1-5
3	Canning 3.1 Steps in Canning 3.2 Canning of Fruits 3.3 Canning of Vegetables 3.4 Advantages and Limitations of Canning 3.5 Home Canning	K1-K5	13	1-5
4	Fermented Products 4.1 Beetroot Wine 4.2 Grape Wine 4.3 Cider 4.4 Vinegar	K1-K5	13	1-5
5	Preparation of the following: 5.1 Guava Jelly 5.2 Mixed Fruit Jam 5.3 Mixed Vegetable Pickle 5.4 Lime Syrup 5.5 Grape Crush 5.6 Pineapple Squash	K1-K5	13	1-5

BOOK FOR STUDY

Roday Sunethra, Food Science and Nutrition, 3rd edition, Oxford University Press, 2018.

BOOKS FOR REFERENCE

Didier Montet, Ramesh C. Ray Fermented Foods, Part I: Biochemistry and Biotechnology, 1st ed. New Delhi: CRC Press, 2015.

Frazier, W.C. and D.C. West Hoff, Food Microbiology. 5th edition New Delhi: T McGraw Hill, 2013.

Ray Bibek and Bhunia Arun, Fundamental Food Microbiology, 5th ed, T & F, India, 2018.
Srilakshmi, B. Nutrition Science, 6th ed, New Age International Publishers, 2017.

JOURNALS

Journal of Food Science

Journal of Food Science and technology

Journal of Nutrition of Food Science Food Science Research Journal

PATTERN OF ASSESSMENT**No Unit should be left out****Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 =10)
B (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Essay	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Paragraph	K5 / K5	20 or 21	20 (1 x 20 =20)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Illustration Assignment/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall)	K1	1 - 20	20 (20 x 1 = 20)
B (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 28	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Essay	K3 / K3	29 or 30, 31 or 32	12 (2 x 6= 12)
	K4 / K4	33 or 34, 35 or 36	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice)Paragraph	K5 / K5	37 or 38, 39 or 40	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/ME/FN45												
	Course Title: Fruit Preservation and Nutrition												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	3	3	1	3	3	-	2	3
CO 2	3	3	2	2	3	3	3	1	3	3	-	2	3
CO 3	3	3	2	2	3	3	3	1	3	3	-	2	3
CO 4	3	3	2	2	3	3	3	1	3	3	-	2	3
CO 5	3	3	2	2	3	3	3	1	3	3	-	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE:
BRANCH V. A. PLANT BIOLOGY AND PLANTBIOTECHNOLOGY**

**SYLLABUS
(Effective from the academic year 2023–2024)**

PROJECT

CODE:23BT/ME/PR45

CREDITS:5

Guide lines:

- Page Limit: The dissertation shall be within a space about 40-50 pages typed in font size 12, with 1 1/2 line spacing in A4 size paper
- Each dissertation will contain the following certificate: “Dissertation submitted to Stella Maris College (Autonomous) Chennai, by Name of the candidate, Department Number, Department of Botany, Place, Month and Year
- Submission: Each student will prepare two copies of the dissertation and submit 15 days before the commencement of the End Semester Examination. One copy (hard and soft) to be submitted to the Head of the Department

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Periodical review and submission of reports

End Semester Examination: Total Marks: 50

Rubrics for Evaluation	Marks	Cognitive Level
Research statement and methodology	10	K1 – K2
Documentation - text and images	25	K3 – K4
Research findings and analysis (Via-voce)	15	K5

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

HORTICULTURE

CODE: 23BT/ME/HC45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- provide knowledge on the fundamental concepts in horticulture
- understand the styles and components in gardening and develop the skill in propagation of plants
- understand the cultural practices in growing some fruits, vegetables and flowers
- illustrate the significance of organic horticulture and various types of gardens
- inculcate the entrepreneurial skills in horticulture

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic principles of Horticultural practices	K1
CO2	identify the various styles in gardening and their components; demonstrate the practices involved in gardening and the application of Horticulture in day – to- day life	K2
CO3	illustrate the fundamental concepts in Horticulture, relate it with cultural practices and develop entrepreneur skills in Horticultural sectors	K3
CO4	analyse the Horticultural techniques and explain the methods of propagation, distinguish the types of garden and promote the entrepreneur skills	K4
CO5	summarize the fundamental concepts and compile the significance of various Horticultural tools and techniques	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction and Techniques 1.1 Introduction, divisions of Horticulture and famous gardens of India (Rashtrapathi Bhavan Garden, New Delhi, Brindavan Garden, Mysore, Indian Botanical Garden, Kolkata and Botanical Garden, Ooty) 1.2 Garden Implements and Garden operations	K1-K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
	1.3 Growing Plants in Pot: Types of Pots, Potting and Repotting 1.4 Pot Culture (growing annuals)- Practical			
2	Garden Components and Propagation 2.1 Garden and its Components: Fencing Hedge, Borders, Flower Beds, Edging, Lawn, Drives and Paths, Water Garden and Garden Adornments 2.2 Vegetative Propagation: Cutting, Layering, Grafting and Budding (Theory and Practical) 2.3 Sexual propagation by means of seeds 2.4 Hydroponics	K1- K5	13	1-5
3	Cultural Practices Propagation, Planting and Harvesting of the following Plants: 3.1 Fruits: Mango and Guava 3.2 Vegetable Crops: Onion and Potato 3.3 Economic Flowers : Rose and Jasmine 3.4 Vegetable Forcing	K1- K5	13	1-5
4	Organic Horticulture and Types of Gardens 4.1 Organic Horticulture – organic gardening system, soil & nutrient management, pest & weed control approach 4.2 Kitchen Garden – Layout: Theory and Practical 4.3 Market Garden and Truck Garden 4.4 Rock Garden and Terrace Garden	K1- K5	13	1-5
5	General Topics 5.1 Landscaping and Lawn maintenance 5.2 Cut Flowers, Flower Arrangement: Fresh and Dry (Theory and Practical) 5.3 Bonsai 5.4 Terrarium: Theory and Practical	K1- K5	13	1-5

BOOK FOR STUDY

Kumar, N. *Introduction to Horticulture*, CBS Publishers and Distributors Pvt Ltd; 7th edition. 2020.

BOOKS FOR REFERENCE

Bhattacharyya and Purohit. *Organic Farming Biocontrol and Biopesticide Technology*. Agrobios India, 2012.

S N Gupta, *Instant Horticulture*, Jain Brothers, 21 Edition, 2023

Arya, R L, *Fundamentals of Horticulture*, Scientific Publishers, 2022

Shankar, Kripa Et Al, *Horticultural Updates Including International National Updates For All Competitive Exams*, New Vishal Publications, 2019.

H. Shivanna, *Handbook of Horticultural Science*, Discovery Publishing House Pvt. Ltd., New Delhi, 2012

Saini R. S, Sharma K.D et. al, *Laboratory manual of Analytic Techniques in Horticulture*,

Agrobios(India), Jodhpur, 2012

George Acquaah. *Horticulture Principles and practices*. London: PHI Learning, 2009.

John Lindley, *Theory of Horticulture*. Facsimile Publisher, 2018

Sheela, V. L. *Horticulture*, Chennai: MJP, 2011.

Saini R.S., *Laboratory Manual of Analytical Techniques in Horticulture*, Jodhpur: Agrobios, 2012.

JOURNALS

Indian Journal of Horticulture

International Journal of Horticulture and Crop

Science Journal of Horticultural Sciences

WEB RESOURCES

www.hortportal.org

agritech.trau.ac.in

www.agrihorticultureindia.com

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 =10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 =20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/ME/H45												
	Course Title: Horticulture												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	3	3	3	3	3	3	3	3
CO 2	3	3	2	2	3	3	3	3	3	3	3	3	3
CO 3	3	3	2	2	3	3	3	3	3	3	3	3	3
CO 4	3	3	2	2	3	3	3	3	3	3	3	3	3
CO 5	3	3	2	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO BIOINFORMATICS

CODE: 23BT/ME/BI45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable the students to

- gain knowledge in the basic concepts of bioinformatics and its significance in biological data analysis.
- distinguish between different types of biological databases.
- understand the pattern of sequence similarity using BLAST.
- explain Multiple sequence alignment and phylogenetic analysis.
- describe the importance of Bioinformatics and its application

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the various biological databases and identify the sequence alignments tools.	K1
CO2	compare the concept of database, search for sequence similarity, multiple sequence alignment and phylogenetic analysis.	K2
CO3	apply the tools in sequence alignments methods and phylogenetic tree construction	K3
CO4	connect the similarity searches which pays the way for evolution.	K4
CO5	summarize various databases used for the study and list the Bioinformatics application.	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	Introduction and Databases in Bioinformatics 1.1 Introduction, Branches of Bioinformatics 1.2 Aim, Scope and Research areas of Bioinformatics 1.3 Introduction to Biological Database, Types of databases- Primary and Secondary – Sequence databases - NCBI, EMBL, DDBJ	K1-K5	13	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Databases and Tools 2.1 Sequence Retrieval System – Entrez, SRS - Sequence Submission Tools – Bankit, Sequn, iSakura 2.2 Specialized database –PubMed, OMIM, KEGG, PlantGDB, Plant Cyc 2.3 Sequence analysis of nucleic acid/protein data using web-based tools - Practical	K1-K5	13	1-5
3	Pairwise Sequence Alignment and BLAST 3.1 Introduction to Sequence Alignment– FASTA format 3.2 Sequence alignment methods – Pairwise alignment (Local and Global) 3.3 Basic Local Alignment Search Tool– Search steps - Theory and Practical	K1-K5	13	1-5
4	Multiple Sequence Alignment and Phylogenetic Analysis 4.1 Multiple alignment – CLUSTAL W and CLUSTAL Omega 4.2 Phylogenetic analysis – Tree terms, Tree types - Distance based method - Neighbour joining method - Character based method – Maximum Likelihood method 4.3 MSA and Phylogenetic analysis – Practical	K1-K5	13	1-5
5	Applications of Bioinformatics 5.1 Structural Bioinformatics in Drug Discovery – PDB & PYMOL 5.2 Secondary Metabolites from plant products – IMPPAT database 5.3 Application of plant genome in agriculture.	K1-K5	13	1-5

BOOKS FOR STUDY

Springer-Verlag, *Basics of Bioinformatics*, Berlin Heidelberg, 2013.
Attwood, T. K. and Parry-Smith, D. J. (2005). *Introduction to Bioinformatics*, First Edition, Pearson Education, London, United Kingdom.

BOOKS FOR REFERENCE

Andreas D Baxevanis, B F Francis Oullette “*Bioinformatics: A practical guide to the analysis of genes and proteins*”. 2 nd ed. Wiley publishers, 2005.
Arthur Lesk “*Introduction to Genomics*” 2nd ed. Oxford University Press 2007.
Campbell A. M., Heyer L. J. *Discovering Genomics, Proteomics and Bioinformatics*. II Edition. Benjamin Cummings, 2006.
David Mount “*Bioinformatics: sequence and genome analysis*” 3rd ed. Cold Spring Harbor Laboratory Press, 2004.
Ghosh Z. and Bibekanand M. *Bioinformatics: Principles and Applications*. Oxford University Press, 2008.
Jin Xiong “*Essential Bioinformatics*”, 1 st ed. Cambridge University Press, 2006.
Ranganathan, Narain & Kuppaswamy *Biotechnology & Bioinformatics*, Wisdom Press, 2011.
Choudhuri, S. (2014). *Bioinformatics for Beginners: Genes, Genomes, Molecular Evolution, Databases and Analytical Tools*, 1 st edition, Academic Press, Cambridge, United Kingdom
Pevsner, *Bioinformatics and Functional Genomics*, John Wiley publishers, 3rd ed., 2015.

WEB RESOURCES

www.genome.gov/12514286

<https://www.youtube.com/watch?v=SAweFv8I8ow&list=PL1ay9ko4A8skYqjhrA4INDZ7IHtebS0lY>

<https://www.youtube.com/watch?v=IQCbnRafCtM>

<https://www.youtube.com/watch?v=cd6O8FbrVjw>

<https://www.youtube.com/watch?v=ZNIQCrCibL8>

www.ncbi.org

www.embl.org

JOURNALS

Drug and chemical toxicology

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6 = 6)
	K4 / K4	18 or 19	6 (1 x 6 = 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20 (1 x 20 = 20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6 = 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/ME/BI45												
	Course Title: Introduction to Bioinformatics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	2	1	3	3	1	3	3
CO 2	3	3	3	2	3	3	2	1	3	3	1	3	3
CO 3	3	3	3	2	3	3	2	1	3	3	1	3	3
CO 4	3	3	3	2	3	3	2	1	3	3	1	3	3
CO 5	3	3	3	2	3	3	2	1	3	3	1	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE:
BRANCH V. A. PLANT BIOLOGY AND PLANTBIOTECHNOLOGY**

SYLLABUS
(Effective from the academic year 2023-2024)

BIOSTATISTICS

CODE: 23BT/ME/BS45

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce basic concepts and notions of statistics
- To acquire knowledge of discrete and continuous distributions and their properties
- To extend and formalize knowledge of the theory of probability and use of Baye's theorem
- To inculcate the concepts of random variables, relationship between them, sampling and test of significance

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the scope, functions, applications and limitations of Statistics.	K1
CO2	understand the concepts and statistical tools used in Biostatistics	K2
CO3	effectively apply these tools on solving the biological problems occurring in real life	K3
CO4	analyze the given Bio-statistical data as per the objectives of the problem	K4
CO5	argue and conclude suitable sampling technique for a real life survey	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Collection & Presentation of data 1.1 Collection of a data 1.2 Classification of a data 1.3 Tabulation of a data 1.4 Raw data 1.5 Formation of Frequency distribution 1.6 Types of Diagram 1.7 Simple Bar diagram 1.8 Line diagram 1.9 Subdivided bar diagram 1.10 Multiple bar diagram 1.11 Pie diagram 1.12 Histogram 1.13 Frequency Polygon	K1-K5	12	1-5
2	Measures of Central Tendency & Dispersion 2.1 Arithmetic Mean 2.2 Weighted arithmetic mean 2.3 Correcting incorrect values 2.4 Median of discrete and continuous distributions 2.5 Mode of discrete and continuous distributions 2.6 Measures of dispersion - Range 2.7 Quartile Deviation 2.8 Standard deviation 2.9 Coefficient of Variation	K1-K5	14	1-5
3	Correlation & Regression 3.1 Karl Pearson's Coefficient of Correlation 3.2 Scatter Diagram Method 3.3 Spearman's correlation coefficient 3.4 Applications of correlation Analysis 3.5 Regression definition & regression lines 3.6 Relationship between Correlation and regression coefficients	K1-K5	12	1-5
4	Probability & Theoretical Distributions 4.1 Definition 4.2 Addition & Multiplication theorems of probability 4.3 Conditional Probability 4.4 Baye's Theorem 4.5 Theoretical Distributions 4.6 Binomial Distribution 4.7 Poisson distribution 4.8 Normal distribution	K1-K5	14	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Sampling Methods & Test of Significance 5.1 Methods of sampling 5.2 Sampling and Test of significance 5.3 Types of errors - Critical region - One-tailed test - two-tailed test - Making a decision or conclusion 5.4 Test of significance for small sample test 5.5 Test of significance for large sample test 5.6 Chi-Square test 5.7 F-test	K1-K5	13	1-5

BOOK FOR STUDY

Shakila Devi. G.T. & Ramya Balaji.R.S. *Biostatistics*. Margham Publications, 2011.

Chapter 1 Pages 1.1 – 1.4

Chapter 2 Pages 2.1 – 2.11

Chapter 3 Pages 3.1 – 3.10, 3.12 – 3.19

Chapter 4 Pages 4.1 – 4.25

Chapter 5 Pages 5.1 – 5.11, 5.14 – 5.23

Chapter 7 Pages 7.1 – 7.6, 7.10 – 7.14

Chapter 8 Pages 8.1 – 8.4

Chapter 9 Pages 9.1 – 9.17, 9.21 – 9.28

Chapter 10 Pages 10.1 – 10.6, 10.15 – 10.25

BOOKS FOR REFERENCE

Sundara Rao.P.S.S., Richard J, *Introduction to Biostatistics, A manual for students in Health sciences*, Prentice Hall of India, New Delhi, 3rd edition, 2003

Gurumani.N. *An Introduction to Biostatistics*, MJP Publishers, Chennai, 2015

Gupta, SP. *Elementary Statistical Methods*, Sultan Chand & Sons, New Delhi, 2008.

WEB RESOURCES

<https://conjointly.com/kb/descriptive-statistics/>

<https://www.khanacademy.org/math/statistics-probability/probability-library>

<https://ocw.mit.edu/courses/18-440-probability-and-random-variables-spring-2014/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes
(COs)**

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BT/ME/BS45												
	Course Title: Biostatistics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	1	3	3	1	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	1	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	1	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	1	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	1	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by the department of Botany to students of
B A. / B.Sc. / B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

HERBAL THERAPY

CODE:23BT/GE/HT22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable the students to

- recognize and understand the Indian Systems of Medicine, its principle and drug preparation
- identify the local herbal plants and their parts as medicine and compare its medicinal importance for some common ailments
- gain basic knowledge in herbal drug preparation in Ayurveda and Siddha for skin and hair care and common ailments

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic principles of Indian Systems of Medicine and relate the therapeutic uses of medicinally important plants for skin, hair and common ailments	K1
CO2	understand the importance of herbs as medicinal plants and explain the importance of indigenous medicinal system	K2
CO3	apply the techniques of herbal drug preparation for skin, hair and lifestyle ailments and identify their role in present drug research	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Indian Systems of Medicine 1.1 Introduction: Ayurveda, Siddha and Unani 1.2 Basic Principles of Ayurveda: Panchamahabhutas, Tridhoshha Concept and Malas 1.3 Preparation of Ayurvedic and Siddha Medicine Ayurveda: Svarasa (Juice); Churna (Powder);Kalka (Paste); Kashaya (Decoction and Infusion) and Bhasma Siddha: Lavanam, Pashanam, Loham, Rasam and Gandhakam	K1-K3	9	1-3

UNIT	CONTENT	CL	Hrs	CO
2	Herbs and Therapeutics 2.1 Herbal remedies for some common ailments: Diarrhoea, Ulcer, Cold, Asthma, Fever, Hypertension, Jaundice, Chickenpox, Diabetes, Menstrual Disorders 2.2 General Health Tonics and Salads 2.3 Preparations of Ayurvedic Medicines: Churnam, Decoction, Leghyam, Tailam and Skin Cream (Practical)	K1-K3	8	1-3
3	Skin and Hair care 3.1 Role of Dhatu in physical beauty 3.2 Herbal Care for Facial Skin - Herbal Face Pack for Dry, Oily and Normal Skin: Herbal Remedy for Pimples, Acnes, Black Heads, Corns, Warts and Boils 3.3 Herbal Remedy for Dandruff, Premature Greying and Loss of Hair: Hair Washes and Herbal Hair Tonics 3.4 Demonstration of Facial and Hair Care	K1-K3	9	1-3

BOOKS FOR REFERENCE

Jain, *Medicinal Plants*. National Book Trust, New Delhi, 2001.
 Duke, J.A. *Handbook on Medicinal Herbs*. London: CRC, 2002
 Dananjay J Deshpande., *Handbook of Medicinal Herbs*., Jodhpur: Agrobios, 2010.
 Hans, R.H. *Ayurveda the Gentle Health System*. New Delhi: Motilal Banarsidass, 2002.
 Pitchiah kumar M., Senthilvel G., et al. *Fundamentals Of Siddha Internal Medicine*. 2019
 Kapoor, L.D. *Handbook of Ayurvedic Medicinal Plants*. India: CRC, 2001.
 Prajapati, N.D. and S.S.Purohit. *Agro's Color Atlas of Medicinal Plants*. Jodhpur: Agrobios, 2006
 Reddy, K.J, B.Bahadur, B.Bhadriah and M.L.N.Rao. *Advances in Medicinal Plants*. New Delhi: Universities, 2007

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test:

Total Marks: 25

Duration: 1 Hour

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B 1 out of 2 to be answered (Paragraph)	K2	11 – 12	1 (1 x 5= 5)
B 1 out of 2 to be answered (Essay)	K3	13-14	1 (1 x 10= 10)
Total			25

Other Components:

Total Marks: 25

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making
 No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by the department of Botany to students of
B A. / B.Sc. / B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

FRUIT PRESERVATION

CODE:23BT/GE/FP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable the students to

- explain the principle and methods involved in fruit preservation
- understand the techniques of fruit preservation
- acquire practical skills in the preparation of various fruit products

**COURSE LEARNING
OUTCOMES**

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	state the principle and list out different techniques and methods of fruit preservation	K1
CO2	Differentiate types of spoilage, classify the methods and techniques of fruit preservation and explain the preparation of fruit products.	K2
CO3	prepare various fruit products by applying the preservation techniques	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Principles of Fruit Preservation 1.2 Types of Spoilage 1.3 Factors Promoting Spoilage	K1- K3	4	1-3
2	Methods and Techniques of Fruit Preservation 2.1 Methods: Refrigeration, Freezing, Canning, Dehydration and Chemical Preservatives 2.2 Techniques: Proportion of Ingredients, Selection of Fruits, Estimation Tests, Filling and Bottling of Products and Precautions	K1- K3	10	1-3
3	Preparation of products preserved in sugar and salt 3.1 Sugar: Lime Syrup, Grape Crush, Orange Squash, Mixed Fruit Jam, Guava Jelly, 3.2 Salt: Tomato Chutney and Mixed Vegetable Pickle	K1- K3	12	1-3

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test:

Total Marks: 25

Duration: 1 Hour

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B 1 out of 2 to be answered)) (Paragraph)	K2	11 – 12	1 (1 x 5= 5)
B (1 out of 2 to be answered))(Essay)	K3	13-14	1 (1 x 10= 10)
Total			25

Other Components:

Total Marks: 25

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

No End Semester Examination

This General Elective Course Fruit Preservation is also offered

onlineMODULE 1

Lecture:1&2 - Principles of Fruit Preservation

MODULE 2

Lecture:1 - Food spoilage and the types of food

spoilageLecture:2 - Factors promoting food

spoilage **MODULE 3**

Lecture:1 -

Refrigeration

Lecture:2 - Freezing

MODULE 4

Lecture:1&2 - Canning of fruits and vegetables

MODULE 5

Lecture:1&2 - Dehydration

MODULE 6

Lecture:1&2 Chemical Preservatives

MODULE 7

Lecture:1 Techniques of Fruit Preservation

MODULE 8

Lecture:1 Precaution to be taken during preparation of fruit products

MODULE 9

Lecture:1&2 Preparation of Lime syrup and Grape crush

MODULE 10

Lecture:1 Preparation of Orange squash

MODULE 11

Lecture:1 Preparation of Mixed fruit jam

MODULE 12

Lecture:1 Preparation of Mixed vegetable pickle

BOOK FOR STUDY

Roday Sunethra, Food Science and Nutrition, 3rd edition, Oxford University Press, 2018.

BOOKS FOR REFERENCE

Frazier, W.C. and D.C. West Hoff, Food Microbiology. 5th edition New Delhi: T McGraw Hill, 2013.

Ray Bibek and Bhunia Arun, Fundamental Food Microbiology, 5th ed, T & F, India, 2018. Srilakshmi, B. Nutrition Science, 6th ed, New Age International Publishers, 2017.

JOURNALS

Journal of Food Science

Journal of Food Science and technology

Journal of Nutrition of Food Science Food Science Research Journal

PATTERN OF ASSESSMENT

No Unit should be left out.

1. Preparation of various fruit products and uploading the recorded videos - 30 Marks
2. MCQ - 20 Marks (Module 1 to Module 4)
3. MCQ - 20 Marks (Module 5 to Module 8)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086.

**General Elective Course Offered by the department of Botany to students of
B A. / B.Sc. / B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

FUNDAMENTALS OF HORTICULTURE

CODE:23BT/GE/FH22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

Students will be able to

- introduce the basics of Horticulture as an art for business
- enhance practical skills through experiential learning
- understand the various divisions of Horticulture

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basics of Horticulture as an art for business	K1
CO2	identify the styles and types of gardens and distinguish the types of vegetative propagation and applications in Horticulture	K2
CO3	analyse the Horticultural techniques and develop entrepreneurial skills in Horticulture sectors	K3

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply

UNIT	CONTENT	CL	Hrs	CO
1	Introduction and Plant Propagation 1.1 Introduction: Divisions of Horticulture 1.2 Any four famous Gardens in South India 1.3 Types of Gardens: Indoor, Public and Kitchen Garden 1.4 Pot cultures: Selection of Pots, Potting, Repotting and Potting Mixtures, Demonstration: Potting 1.5 Vegetative Propagation :Layering, Cutting, Grafting 1.6 Layering, Cutting, Grafting(Demonstration)	K1- K3	9	1-3
2	Lawn and Landscaping 2.1 Lawn and Lawn Making 2.2 Garden adornments 2.3 Principle and components of landscaping	K1- K3	9	1-3

UNIT	CONTENT	CL	Hrs	CO
3	Commercial Floriculture 3.1 Cut Flowers, Importance and Methods to Prolong Vase Life 3.2 Flower Arrangement-Fresh and Dry 3.3 Flower Arrangement-Fresh and Dry (Practical)	K1- K3	8	1-3

BOOK FOR STUDY

Kumar, N. *Introduction to Horticulture*, CBS Publishers and Distributors Pvt Ltd; 7th edition. 2020.

BOOKS FOR REFERENCE

Bhattacharyya and Purohit. *Organic Farming Biocontrol and Biopesticide Technology*. Agrobios India, 2012.

S N Gupta, *Instant Horticulture*, Jain Brothers, 21 Edition, 2023

Arya, R L, *Fundamentals of Horticulture*, Scientific Publishers, 2022

Shankar, Kripa Et Al, *Horticultural Updates Including International National Updates For All Competitive Exams*, New Vishal Publications, 2019.

H. Shivanna, *Handbook of Horticultural Science*, Discovery Publishing House Pvt. Ltd., New Delhi, 2012

Saini R. S, Sharma K.D et. al, *Laboratory manual of Analytic Techniques in Horticulture*, Agrobios(India), Jodhpur, 2012

George Acquaah. *Horticulture Principles and practices*. London: PHI Learning, 2009.

John Lindley, *Theory of Horticulture*. Facsimile Publisher, 2018

Sheela, V. L. *Horticulture*, Chennai: MJP, 2011.

Saini R.S., *Laboratory Manual of Analytical Techniques in Horticulture*, Jodhpur: Agrobios, 2012.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test:

Total Marks: 25

Duration: 1 Hour

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 =10)
B 1 out of 2 to be answered (Paragraph)	K2	11 – 12	1 (1 x 5= 5)
B 1 out of 2 to be answered (Essay)	K3	13-14	1 (1 x 10= 10)
Total			25

Other Components:

Total Marks: 25

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by the department of Botany to students of
B A. / B.Sc. / B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

WASTE MANAGEMENT

CODE: 23BT/GE/WM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable the students to

- understand the concept of recycling waste
- describe the sewage disposal treatments
- explain water treatment procedure

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall solid and liquid wastes, define compost, vermicompost and list out water purity test	K1
CO2	classify sources of waste, identify different sewage disposal treatments and explain steps involved in water purification	K2
CO3	Demonstrate waste recycling process, different sewage disposal treatments and experiment water Purity	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Recycling of Wastes 1.1 Wastes: Solid and Liquid Wastes 1.2 Segregation of waste at source 1.3 Waste Generation and Sources - Municipal, Kitchen, Garden, Agricultural, Industrial and e-waste 1.4 Composting and Vermicomposting	K1- K3	9	1-3
2	Sewage Disposal 2.1 Primary Treatment 2.2 Secondary Treatment: Aerobic - Septic Tanks, Trickling Filters and Oxidation Pond; Anaerobic – Sludge Digestion 2.3 Tertiary Treatment - Chemical, Ozone and Reverse Osmosis	K1- K3	9	1-3
3	Water Quality and Water Purification 3.1 Tests for Water Purity - Coliform Test 3.2 Water Treatment - Steps involved in Water Treatment in typical Water Purification Plant	K1- K3	8	1-3

BOOK FOR STUDY

Purohit, S.S. A Textbook of Environmental Sciences. Student ed , 2009.
Environmental Chemistry, B.K.Sharma., Krishna Prakashan Media (P)Limited,2019.

BOOKS FOR REFERENCE

Gupta, P.K. Vermicomposting for Sustainable Agriculture. India: Agrobios. 2004.
Grace,G. and D.Martin, The Rodale Book of Composting. Kindle ed, 2018.
Ismail,S.A.The Earthworm. Goa: Other India, 2005.
Kumar, H.D. Environmental Pollution. M.D, 2004.
NIIR Board. Modern Technology of Waste Management, Asia Pacific, 2004.
Rachel, M.A. Analysis of Waste Water for use in Agriculture, WHO, 1996.
Sathe, T.V. Vermiculture and Organic Farming. Daya, 2004.
Panda S.C., Principles and Practices of Water Management. Agrobios, 2011.
Patwardhan, A.D., Industrial Waste Water Treatment. 12thedn, 2017.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test: Total Marks: 25 Duration: 1 Hour

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 = 10)
B 1 out of 2 to be answered)) (Paragraph)	K2	11 – 12	1 (1 x 5= 5)
B (1 out of 2 to be answered)) (Essay)	K3	13-14	1 (1 x 10= 10)
Total			25

Other Components: Total Marks: 25

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making
No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086.

**General Elective Course Offered by the department of Botany to
students of BA. / B.Sc. /B.V.A. / B.Com. Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

FLORICULTURE

CODE:23BT/GE/FR22

CREDITS:2

L T P:2 0 0

TOTAL HOURS:26

OBJECTIVES OF THE COURSE

Students will be able to

- introduce the basics of floriculture as an art for business
- understand the various techniques and methods in flower propagation
- develop their practical and entrepreneurial skills

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basics of Floriculture as an art for business	K1
CO2	understand the importance of vegetative propagation and application of Floriculture	K2
CO3	apply the techniques to develop their own nursery	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Basics of Floriculture 1.1 Introduction: Aim and scope of Floriculture 1.2 Manures, Fertilizers, Biofertilizers, Vermicompost and Growth Regulators 1.3 Techniques of Growing Plants – Potting and Repotting (Theory and Practical); Types of Pots and Hanging Baskets 1.4 Preparation of Herbal Solutions and Application of Sprays and Dusts to check Pest attack	K1- K3	9	1-3
2	Vegetative Propagation and Commercial Floriculture I 2.1 Vegetative Propagation Methods: Cutting and Layering (Theory and Practical) 2.2 Green House-Control of Temperature, Humidity and Light in Covered Structures 2.3 Commercial uses of cut flowers and greens - Rose, Carnation, Gladiolus, Aster, Dianthus and Celosia, Ferns, Palms, Cycads and Thuja 2.4 Propagation, Harvesting and Marketing of Rose, Carnation, Chrysanthemum and Jasmine	K1- K3	9	1-3

UNIT	CONTENT	CL	Hrs	CO
3	Commercial Floriculture II 3.1 Flower Arrangement–Fresh and Dry (Theory and Practical) 3.2 Preparation of Flowers for Display in Flower Shows, Garland, Hair Pieces, Bouquets	K1- K3	8	1-3

BOOK FOR STUDY

Kumar, N. *Introduction to Horticulture*, CBS Publishers and Distributors Pvt Ltd; 7th edition.2020.

BOOKS FOR REFERENCE

Bhattacharyya and Purohit. *Organic Farming Biocontrol and Biopesticide Technology*. Agrobios India, 2012.

S N Gupta, *Instant Horticulture*, Jain Brothers, 21 Edition, 2023

Arya, R L, *Fundamentals of Horticulture*, Scientific Publishers, 2022

Shankar, Kripa Et Al, *Horticultural Updates Including International National Updates For All Competitive Exams*, New Vishal Publications, 2019.

H. Shivanna, *Handbook of Horticultural Science*, Discovery Publishing House Pvt. Ltd., New Delhi, 2012

Saini R. S, Sharma K.D et. al, *Laboratory manual of Analytic Techniques in Horticulture*, Agrobios(India), Jodhpur, 2012

George Acquaah. *Horticulture Principles and practices*. London: PHI Learning, 2009.

John Lindley, *Theory of Horticulture*. Facsimile Publisher, 2018

Sheela, V. L. *Horticulture*, Chennai: MJP, 2011.

Saini R.S., *Laboratory Manual of Analytical Techniques in Horticulture*, Jodhpur: Agrobios, 2012.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test: Total Marks: 25 Duration: 1 Hour

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10 (10 x 1 =10)
B 1 out of 2 to be answered (Paragraph)	K2	11 – 12	1 (1 x 5= 5)
B 1 out of 2 to be answered (Essay)	K3	13-14	1 (1 x 10= 10)
Total			25

Other Components: Total Marks: 25

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023–2024)

AGRICULTURE

CODE:23BT/UI/AR23

CREDITS:3

OBJECTIVES OF THE COURSE

Students will be able to

- learn the agricultural practices in India
- To understand the economic importance of farm crops
- To familiarize students with the modern methods of farming

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- gain knowledge on fertilizers, weeds and water resources
- identify different types of soils
- acquire a deeper understanding of farm crops
- learn a variety of methods for pest control
- understand the local cropping patterns
- become familiar with the water resources of Tamil Nadu

Unit 1

Modern Trends in Agriculture

- 1.1 Precision Agriculture
- 1.2 Vertical Farming Techniques-Hydroponics and Aeroponics
- 1.3 Hybrid Seed Technology

Unit 2

Fertilizers and its Uses

- 2.1 Organic Fertilizers - Farm Yard Manure and Biofertilizers
- 2.2 Inorganic Fertilizers – Nitrogenous, Phosphatic, Potassic
- 2.3 Residual Effects of Fertilizers

Unit 3

Weed and Pest Control

- 3.1 Weed Control: Mechanical, Biological and Chemical
- 3.2 Integrated Pest Management
- 3.3 Transgenic Plants for Crop Improvement: Herbicide Resistance, Insect Resistance, Resistance against Viral, Bacterial and Fungal Pathogens

Unit 4

Water Resources and Cropping Patterns

- 4.1 Water resources of Tamil Nadu (Rivers, Dams and Monsoons)
- 4.2 Cropping patterns of Tamil Nadu: Multiple cropping, Relay cropping, Intercropping, Mixed cropping and Multi-Tier cropping
- 4.3 Classification of Soils in India

Unit 5

Farm Crops: Economic Importance

- 5.1 Cereals: Rice and Wheat
- 5.2 Pulses: Blackgram and Pigeon Pea
- 5.3 Oil Seeds: Groundnut and Sunflower Seed
- 5.4 Sugar crops: Sugar Cane
- 5.5 Vegetables: Potato and Onion
- 5.6 Spices: Pepper
- 5.7 Fibres: Cotton and Jute
- 5.8 Fruits: Mango and Citrus Fruits

BOOK FOR STUDY

Subbiah Mudaliar, V.T. - *Principles of Agronomy*. Bangalore: 1979.

BOOKS FOR REFERENCE

Bhattacharyya.P and Purohit.S.S.*Organic Farming Biocontrol and Biopesticide technology*. India: Agrobios, 2012.

Edmond,J.B; Senn.T.L., Andrews,F.S. and Halfacre, R.G.-*Fundamentals of Horticulture*. New Delhi: Tata McGraw Hill, 1977.

Gosh Roy.M.K. *Green World Green Energy* New Delhi, 2013.

Ochse,J.J.Soule, M.J.;Dijkman,M.J. and Welburg C. – *Tropical and Subtropical Agriculture*, Vol.II. New York: Macmillan, 1961.

Purohit,S.S. and S.K.Mathur. *Biotechnology- Fundamentals and Applications*(3rd ed.) Jodhpur: Agrobios, 2000.

Shrivastava A.K. *Agriculture Science and Technology*, Agrotech., 2013.

Sushil Kumar. *Plant Breeding and Genetics*. Book Enclave, 2016

Wrigley Gordon, *Tropical Agriculture – The Development and Production*. ELBS,1998.

PATTERN OF ASSESSMENT

No Unit should be left out

End Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A –10 X 3 = 30 marks (10 out of 13 questions to be answered in 50 words each)

Section B – 5x 6 = 30 marks (5 out of 8 questions to be answered in 200 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND PLANT
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023–2024)

FORESTRY

CODE:23BT/UI/FR23

CREDITS:3

OBJECTIVES OF THE COURSE

Students will be able to

- understand the value of wealth of forests of India
- develop an understanding of biodiversity, conservation and agroforestry
- realize the role of people in conserving forests

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- gain knowledge on the different types of forests and their distribution
- understand the concepts of protection, commercial and social forestry
- become familiar with national sanctuaries, parks and biospheres
- discover the variety of non-wood forest products
- determine the causes and consequences of deforestation
- appreciate peoples power in conservation of forests

Unit 1

Forest Types

- 1.1 Major Forest types in India with special reference to Tamil Nadu
- 1.2 Forest Ecosystem
- 1.3 Forests as Centers of Biodiversity
- 1.4 Biodiversity Hotspots

Unit 2

Protection Forestry

- 2.1 Conservation- *in-situ* and *ex-situ*
- 2.2 National Forest Policy, Forest Conservation Act
- 2.3 National Sanctuaries, National Parks and Biosphere Reserves
- 2.4 Role of People: Chipko Movement, Saalumarada Thimmakka and Hugo Wood

Unit 3

Commercial Forestry

- 3.1 Forests as Sources of Timber
- 3.2 Non wood Forest Products: fodder, food, oil, fiber, paper and medicine

Unit 4**Social Forestry**

4.1 Agroforestry- Afforestation and Reforestation Programmes

4.2 Ecological Benefits

4.3 Deforestation: Causes and Consequences

4.4 Plantation Forestry

Unit 5**Silviculture**

e

5.1 Artificial and Natural Regeneration of some important Forest Plants: Teak and Casuarina

5.2 Forest Education and Management

BOOKS FOR REFERENCE:

Bruce Alan. *Forest products biotechnology*. Taylor & Francois. 2005.

Bridger Blackeney., *Handbook of Forestry*. Agrotech., 2013.

Kumar, U and Asija M.J. *Biodiversity Principles and Conservation*., India: Agrobios, 2011.

Manikandan K, Prabhu S, *Indian Forestry A Breakthrough Approach To Forest Services*, Jain Brothers, 2018

Pathak, P.S, Ram Newaj. *Agroforestry: Potentials and Opportunities*. India Agrobios, 2012.

Powell, Baden B.H. *Manual of Forest Law*. New Delhi: Biotech, 2004.

Uthappa AR, Sangram Bhanudas Chavan, *Competitive Forestry*, New Vishal Publications, 1st ed. 2015

Vyas, G. P. D. *Community Forestry*. Jodhpur: Agrobios, 2006.

PATTERN OF ASSESSMENT

No Unit should be left out

End Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A – 10 X 3 = 30 marks (10 out of 13 questions to be answered in 50 words each)

Section B – 5x 6 = 30 marks (5 out of 8 questions to be answered in 200 words each)

Section C – 2 x 20 = 40 marks (2 out of 4 questions to be answered in 1000 words each)



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

B.Sc. Degree

Branch VI A

**ADVANCED ZOOLOGY AND BIOTECHNOLOGY
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)**

SYLLABUS

(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

DEPARTMENT OF ZOOLOGY

PROGRAMME DESCRIPTION

The U.G programme, Advanced Zoology and Biotechnology scientifically deals with the study of animals. The subjects included are conventional papers like Invertebrata, Chordata, Developmental Biology, Animal Physiology, Evolution, Genetics, Ecology, Animal Behaviour as well as technology-oriented papers like Immunology, Cell and Molecular Biology, Microbiology and Fundamentals of Biotechnology.

Zoology is a complete study of animals, of processes from molecular to organismal levels that determine the structure, functions, development, behaviour and evolution of the animals and of interactions between animals and their environment. Students also study the various mechanisms of inheritance. Each theory paper is supplemented with a suitable practical component thereby providing hands-on experience. Another unique feature of this programme is computer simulation of dissection that provides computer-oriented skills to the students alongside the subject matter through a humane approach.

Students are taken on educational visits to reputed organisations and state of the art laboratories with sophisticated lab instruments which provides them an opportunity to enhance their understanding of scientific concepts and working of instruments. Students who possess an analytical bent of mind, data-handling capability and good written communication skills can opt for Project work as one of their course papers. Another significant aspect of the programme is the opportunity given to develop the ability to work both independently as well as in a team through mini projects. Those candidates who opt for postgraduate programme for teaching purpose at institutes and universities also benefit from the specifically designed curriculum. The Advanced Zoology and Biotechnology degree programme serves as a foundation for higher studies (M.Sc., M.Phil., Ph.D.) in Life Sciences, Biotechnology, Bio-Informatics, Genetics, Microbiology, Wild life Biology, Neurosciences and Anatomy, as well as for a promising career in related fields.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

DEPARTMENT OF ZOOLOGY

VISION OF THE DEPARTMENT

To equip students with a sound foundation in Zoology, inculcating in them a humane approach and sensitivity towards the environment and sustainability; empowering them with skills that create and enhance research aptitude and employability and instilling in them inclusive, moral and societal values for holistic growth.

MISSION OF THE DEPARTMENT

- To impart value-based and quality education in the fields of Zoology and Biotechnology
- To inculcate in students the spirit of scientific inquiry and promote discovery and learning
- To develop in students an appreciation for biodiversity and promote its conservation
- To sensitise students to environmental and bioethical issues
- To utilise biological knowledge for community development
- To prepare students for research, teaching, entrepreneurship and other careers

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

PROGRAMME SPECIFIC OUTCOMES (PSO)

On successful completion of the B.Sc. Advanced Zoology and Biotechnology Programme, the students will be able to

PSO1	Acquire a strong foundation in Zoology, comprehensive knowledge in current trends in Biology, especially in Biotechnology
PSO2	Demonstrate proficiency in experimental techniques and methods of analysis appropriate to their area of special interest in Zoology and Biotechnology and develop scientific temper and skills, leading to employability
PSO3	Engage in critical thinking and integrate knowledge of biological systems, concepts, theories and techniques into their personal and professional lives within an inclusive learning environment
PSO4	Apply concepts and recent techniques in Zoology and use relevant skills in Biology for entrepreneurial ventures and professions
PSO5	Exercise their knowledge ethically to ensure human and animal welfare for environmental sustainability and biodiversity conservation

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Sc. Advanced Zoology and Biotechnology 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III														
Major Core	4	5	4	5	4	5	4	5	4	4	4	4	24	28
			3	4	3	4			4	5	4	5	14	18
									4	5	4	5	8	10
Major Practical	2	3	2	3	2	3	2	3	3	6	3	6	14	24
Allied Core	4	4	4	4	3	3	3	3					14	14
Allied Practical	1	2	1	2	2	3	2	3					6	10
	Offered by BT dept.				Offered by CH dept.									
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	120
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3					3	3					6	6
Soft Skills (EL)	3	3											3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library													0	0
Mentoring													0	0
											Total		4	2
Total	26	30	25	30	24	30	25	30	24	30	25	30	149	180

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COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23ZL/MC/IV14	Invertebrata	4	4	1	0	3	50	50	100
23ZL/MC/P112	Invertebrata Practical	2	0	0	3	3	50	50	100
Allied Core offered to students of Botany by Dept. of Zoology									
23ZL/AC/GZ14	General Zoology I	4	4	0	0	3	50	50	100
23ZL/AC/P111	General Zoology I Practical	1	0	0	2	3	50	50	100
23ZL/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
23EL/SS/PD13	Life Skills:Personality Development	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
Allied Core offered to students of Zoology by Dept. of Botany									
23BT/AC/GB14	General Botany I	4	4	0	0	3	50	50	100
23BT/AC/P111	General Botany I Practical	1	0	0	2	3	50	50	100
SEMESTER-II									
23ZL/MC/CH24	Chordata	4	4	1	0	3	50	50	100
23ZL/MC/DB23	Developmental Biology	3	3	1	0	3	50	50	100
23ZL/MC/P222	Chordata and Developmental Biology Practical	2	0	0	3	3	50	50	100
Allied Core offered to students of Botany by Dept. of Zoology									
23ZL/AC/GZ24	General Zoology II	4	4	0	0	3	50	50	100
23ZL/AC/P221	General Zoology II Practical	1	0	0	2	3	50	50	100
23ZL/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
Allied Core offered to students of Zoology by Dept. of Botany									
23BT/AC/GB24	General Botany II	4	4	0	0	3	50	50	100
23BT/AC/P221	General Botany II Practical	1	0	0	2	3	50	50	100
SEMESTER-III									
23ZL/MC/AP34	Animal Physiology	4	4	1	0	3	50	50	100
23ZL/MC/EV33	Evolution	3	3	1	0	3	50	50	100
23ZL/MC/P332	Animal Physiology and Evolution Practical	2	0	0	3	3	50	50	100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
Allied Core offered to students of Zoology by Dept. of Chemistry									
23CH/AC/FB33	Fundamentals of Biochemistry I	3	3	0	0	3	50	50	100
23CH/AC/P132	Biochemistry Practical I	2	0	0	3	3	50	50	100
SEMESTER-IV									
23ZL/MC/MB44	Microbiology	4	4	1	0	3	50	50	100
23ZL/MC/P442	Microbiology Practical	2	0	0	3	3	50	50	100
	Major Elective I								
Allied Core offered to students of Zoology by Dept. of Chemistry									
23CH/AC/FB43	Fundamentals of Biochemistry II	3	3	0	0	3	50	50	100

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CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23CH/AC/P242	Biochemistry Practical II	2	0	0	3	3	50	50	100
23ZL/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
SEMESTER-V									
23ZL/MC/CM54	Cell and Molecular Biology	4	4	1	0	3	50	50	100
23ZL/MC/FB54	Fundamentals of Biotechnology	4	4	1	0	3	50	50	100
23ZL/MC/GN54	Genetics	4	4	0	0	3	50	50	100
23ZL/MC/P553	Cell and Molecular Biology, Genetics and Biotechnology Practical	3	0	0	6	3	50	50	100
	General Elective III								
	SAP / SL								
Interdisciplinary Core (ZL and SC) to students of Zoology and Sociology									
23ID/IC/SZ55	Socioethnozoology	5	5	1	0	3	50	50	100
SEMESTER-VI									
23ZL/MC/AB64	Animal Behaviour	4	4	1	0	3	50	50	100
23ZL/MC/EC64	Ecology	4	4	1	0	3	50	50	100
23ZL/MC/IM64	Immunology	4	4	0	0	3	50	50	100
23ZL/MC/P663	Animal Behaviour, Ecology and Immunology Practical	3	0	0	6	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23ZL/ME/AZ45	Applied Zoology	5	5	0	0	3	50	50	100
23ZL/ME/PR45	Project	5	0	0	5	-	50	50	100
23ZL/ME/LT45	Medical Laboratory Technology	5	5	0	0	3	50	50	100
23ZL/ME/EB45	Environmental Biotechnology	5	5	0	0	3	50	50	100
23ZL/ME/IB45	Introduction to Marine Biology	5	5	0	0	3	50	50	100
General Electives									
23ZL/GE/PC22	Pet Care	2	2	0	0	-	50	-	100
23ZL/GE/ND22	Nutrition and Therapeutic Diet	2	2	0	0	-	50	-	100
23ZL/GE/GD22	Genes, Diseases and Society	2	2	0	0	-	50	-	100
23ZL/GE/HR22	Biology of Human Reproduction	2	2	0	0	-	50	-	100
23ZL/GE/FI22	The Fascinating World of Insects	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness / Service Learning Course									
Social Awareness Courses									
23ZL/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23ZL/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23ZL/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100

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COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23ZL/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23ZL/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23ZL/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23ZL/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23ZL/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23ZL/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Service Learning Courses (specific to the Department)									
23ZL/SL/HH52	Health and Hygiene	2	2	0	0	-	50	-	100
23ZL/SL/DC52	Faunal Diversity and Conservation	2	2	0	0	-	50	-	100
Independent Electives									
23ZL/UI/WB23	Introduction to Wildlife Biology	3	0	0	0	3	-	100	100
23ZL/UI/FS23	Fundamentals of Food Science	3	0	0	0	3	-	100	100

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B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

INVERTEBRATA

CODE:23ZL/MC/IV14

CREDITS : 4

L T P : 4 1 0

TOTAL TEACHING HOURS : 65

OBJECTIVES OF THE COURSE

To enable the students to

- Comprehend the outline classification of the Animal Kingdom and the special features of Phylum Protozoa
- Relate the characteristic features, structural and functional organization of Poriferans and Coelenterates and understand strategies for their conservation
- Integrate the salient features and structural organization of Platyhelminthes and Annelids and understand their biological and medicinal significance
- Examine the unique features and structural organization of Arthropods and analyze the social life of insects
- Comprehend the characteristic features of Phylum Mollusca and Echinodermata and describe the economically important forms

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the unique characters of different phyla, common and technical names of some animals	K1
CO2	describe the structural organization and functions of various invertebrates	K2
CO3	apply the knowledge to identify the organisms based on their characteristic features, life cycles and habits and relate it with human welfare	K3
CO4	analyse the special adaptations of invertebrates and the need for their conservation	K4
CO5	evaluate the economic importance and biological significance of invertebrates	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction and Outline Classification of Animal Kingdom 1.2 Phylum Protozoa: Characteristic Features - Type: <i>Paramecium caudatum</i> 1.3 Locomotion in Protozoa 1.4 Parasitic Protozoans: <i>Entamoeba histolytica</i> and <i>Plasmodium sp.</i>	K1 – K4 K1 – K4 K1 – K4 K1 – K5	11	CO1 - 5
2	2.1 Phylum Porifera: Characteristic Features - Type : <i>Sycon</i> 2.2 Canal System in Sponges – Economic Importance of Porifera 2.3 Phylum Coelenterata: Characteristic Features - Type - <i>Obelia geniculata</i> 2.4 Polymorphism in Coelenterates - Corals and Coral Reefs – Environmental Impact – Conservation- Affinities of Ctenophora	K1 – K5 K1 – K5 K1 – K4 K1 – K5	12	CO1 - 5
3	3.1 Phylum Platyhelminthes: Characteristic Features – Type : <i>Taenia solium</i> 3.2 Helminth Parasites in Relation to Human Welfare: <i>Ascaris lumbricoides</i> , <i>Ancylostoma duodenale</i> , <i>Wuchereria bancrofti</i> and <i>Enterobius vermicularis</i> . 3.3 Phylum Annelida: Characteristics Features - Type: <i>Hirudinaria granulosa</i> - Medicinal Significance - Leech therapy 3.4 Metamerism in Annelids – Diversity of Annelids	K1 – K5 K1 – K5 K1 – K5 K1 – K4	14	CO1 - 5
4	4.1 Phylum Arthropoda: Characteristic Features - Type : <i>Fenneropenaeus indicus</i> (<i>Penaeus indicus</i>) 4.2 Structure and Phylogenetic Significance of <i>Peripatus</i> 4.3 Mouthparts and their Modification in Insects 4.4 Social Life in Insects: General Characteristic features – Social life of Termites and Honey Bees	K1 – K5 K1 – K5 K1 – K4 K1 – K5	14	CO1 - 5
5	5.1 Phylum Mollusca: Characteristic Features -Type : <i>Pila globosa</i> 5.2 Torsion in Gastropods - Economic Importance of Molluscs 5.3 Phylum Echinodermata: Characteristic Features - Type : <i>Asterias sp.</i> 5.4 Larval Forms of Echinoderms and their Significance	K1 – K4 K1 – K5 K1 – K4 K1 – K5	14	CO1 - 5

BOOKS FOR STUDY

Ayyar, Ekambaranatha M. and Ananthakrishnan. T.N. (2016). *Manual of Zoology. Vol.I, Part. I & II.* Madras: S.Viswanathan & Co
Jordan, E. L and Verma, P.S. (2012). *Invertebrate Zoology. Vol.I.* New Delhi: S.Chand

BOOKS FOR REFERENCE

Ruppert, E. E., Barnes, R. D. and Fox (2006). *Invertebrate Zoology.* Japan: Cengage
Bhamrah, H. S. and Kavita Juneja. (1991). *Recent Trends in Invertebrates. Vol.I – VIII.* New Delhi: Anmol
Dhami, P. S. and Dhami J.K. (2015). *Invertebrate Zoology.* New Delhi: S.Chand
Kotpal, R. L. (2019). *Modern Textbook of Zoology Invertebrates.* New Delhi: Rastogi
Majupuria, T.C. (1985). *Invertebrate Zoology.* New Delhi: S.Nagin
Pechenik, Jan.A. (2005). *Biology of Invertebrates.* New York: McGraw-Hill
Siebold, C. Th.u. (2007). *Anatomy of Invertebrate.* U.S.A: Hard Press

JOURNALS

Journal of Animal Science
International Journal of Zoological Research
Invertebrate Survival Journal

WEB RESOURCES

www.iaszoology.com
<http://www.insects.org/>
<http://www.earthlife.net/begin.html>
Edx course on corals-<https://www.edx.org/course/tropical-coastal-ecosystem-8>
SWAYAM course on Applied and Economic Zoology-
https://onlinecourses.swayam2.ac.in/cec20_ge23/preview

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the zoological name)	K1	1 - 5	10 (5 x 2= 10)
B (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	6 - 10	10(5 x 2 = 10)
C (Internal choice) Essay	K3 / K3	11 or 12	10(1 x 10=10)
	K4 / K4	13 or 14	10(1 x 10=10)
D (Internal choice) Paragraph	K5 / K5	15 or 16, 17 or 18	10 (2 x 5= 10)
Total			50

Other Components:**Total Marks: 50**

Quiz/ Assignment/ Illustration Assignment/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the zoological name)	K1	1 - 10	20 (10 x 2=20)
B (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 - 20	20 (10 x 2=20)
C (Internal choice)Essay (Two questions at each level with Internal choice)	K3 / K3	21 or 22, 23 or 24	20 (2 x 10=20)
	K4 / K4	25 or 26, 27 or 28	20 (2 x 10=20)
D (Internal choice) Paragraph (Four questions with Internal choice)	K5 / K5	29 or 30, 31 or 32,33 or 34, 35 or 36	20 (4 x 5 =20)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/IV14												
	Course Title: Invertebrata												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	1	2	2	2	1	1	1	2	1	1	1	2
CO 2	2	3	3	2	3	2	3	1	3	2	3	2	3
CO 3	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 4	2	3	3	2	2	3	3	1	3	2	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

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**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

INVERTEBRATA PRACTICAL

CODE: 23ZL/MC/P112

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

To enable students to

- understand and examine the morphology and anatomy of invertebrate specimen through dissection and audio - visual demonstrations
- mount the mouthparts of insects and body setae of earthworm
- identify and classify invertebrate specimens based upon their distinctive characteristics
- comprehend and identify various insect vectors and extraction methodology of soil fauna
- gain hands-on experience in vermiculture and familiarize students with the habits and habitat of invertebrate fauna of the campus and create awareness on biodiversity conservation.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the distinctive features and biological significance of various Invertebrates and identify them	K1, K2
CO2	associate and illustrate the location and organization of organs and organ systems in invertebrates	K3
CO3	compare the structure, functions and adaptations of various invertebrates	K4
CO4	analyze and relate the structural and functional organization of invertebrates	K5
CO5	apply the skills learnt for display and labelling of dissections, construction of model vermipit and documentation of campus fauna	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	DISSECTIONS: <i>Periplaneta americana</i> / <i>Fenneropenaeus indicus</i> Digestive System and Nervous System COMPUTER SIMULATED DISSECTIONS Digital Earthworm	K3 - K6	8	CO2 – CO5
2	MOUNTS Body setae of Earthworm Appendages of prawn Mouth parts of mosquito, house fly and honeybee	K4 - K6	8	CO3 – CO5
3	SPOTTERS Identification and description of specimens of all groups of invertebrates studied under the syllabus- five under each phylum	K1 – K3	8	CO1 – CO2
4	SPOTTERS Identification of Insect vectors – <i>Aedes sp</i> , <i>Culex sp</i> , <i>Pediculus sp</i> , <i>Xenopsylla sp</i> and <i>Sarcoptes scabiei</i> Extraction of Soil microarthropods using Berlese funnel	K1 – K3	7	CO1 – CO2
5	WORKSHOP/OBSERVATION AND DOCUMENTATION Study of life history stages of <i>Lampito mauritii</i> and <i>Perionyx excavatus</i> Workshop on Vermitechnology Study of any ten Invertebrate fauna in the Stella Maris College Campus (Observation of habit, habitat and adaptive features) Record of Microhabitat and correlation of host plant interaction (wherever possible) Visit to Zoological Survey of India/Farm	K5, K6	8	CO4 - CO5

RECORD WORK

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus.

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 3 hours**

Section	Question	Cognition Levels	Marks Allotted
A	Major Dissection	K3, K4, K5, K6	20
B	Minor Dissection/Mount	K4, K5, K6	15
C	Spotter	K1, K2, K3	15
Total			50

Other Components:**Total Marks: 50**

Component	Cognition Levels	Marks allotted
Setting up of a model Vermipit/ Documentation of fauna	K5, K6	20
Observation Book and Record	K1, K2, K3, K4	30
Total		50

End-Semester Examination:**Total Marks: 50****Duration: 3 hours**

Section	Question	Cognition Levels	Marks Allotted
A	Major Dissection	K3, K4, K5, K6	20
B	Minor Dissection/Mount	K4, K5, K6	15
C	Spotter	K1, K2, K3	15
Total			50

Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23ZL/MC/P112												
	Course Title: Invertebrata Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	3	1	3	3	3	2	2
CO 2	3	3	3	2	3	2	1	1	3	3	2	2	3
CO 3	3	3	3	2	3	2	3	1	3	3	3	2	3
CO 4	3	3	3	2	3	2	2	1	3	3	3	2	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

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B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

GENERAL ZOOLOGY I

CODE: 23ZL/AC/GZ14

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable students to

- comprehend the characteristic features, structural organisation, economic importance and conservation of Protozoans, Coelenterates, Platyhelminthes and Aschelminthes
- comprehend the characteristic features, structural organisation, and economic importance of Annelids, Arthropods, Molluscs and Echinoderms
- comprehend the salient features, structural organisation and behaviour of Prochordates, Agnathans and Fishes
- comprehend the characteristic features, structural organisation and conservation of Amphibians, Reptiles and Birds
- comprehend the characteristic features, structural organisation and adaptations of Mammals

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall the characteristic features and outline classification of Invertebrates and Chordates	K1
CO 2	describe the structural and functional organisation of Invertebrates and Chordates	K2
CO 3	apply the acquired knowledge to identify specific adaptations and the causes, mode of transmission, symptoms and preventive measures of various diseases	K3
CO 4	analyse the specific adaptations, behaviours and various threats to some animals and strategies for their conservation	K4
CO 5	evaluate the economic importance and biological significance of animals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction: Outline Classification of Animal Kingdom 1.2 Protozoa: Characteristic Features - Type: <i>Paramecium caudatum</i> 1.3 Coelenterata: Characteristic Features - Corals and Coral Reefs – Conservation and Economic Importance 1.4 Platyhelminthes & Aschelminthes: Characteristic Features - Helminth Parasites in relation to Human Welfare: Causative Organism, Life Cycle, Mode of Transmission, Symptoms & Prophylaxis of the following: <i>Taenia solium</i> , <i>Ascaris lumbricoides</i> and <i>Enterobius vermicularis</i>	K1 K1 – K5 K1 – K5 K1 – K5	10	CO 1 - 5
2	2.1 Annelida: Characteristic Features - Vermitechnology: Vermiculture, Vermicomposting, Vermiwash and Setting up of Vermiculture. 2.2 Arthropoda: Characteristic Features - Mode of Infection and Diseases caused by the following Vectors: <i>Aedes sp.</i> , <i>Pediculus sp.</i> , <i>Musca domestica</i> - Social Life in Insects 2.3 Mollusca: Characteristic Features – Economic Importance 2.4 Echinodermata: Characteristic Features - Type: <i>Asterias sp.</i>	K1 – K5 K1 – K5 K1–K5 K1 – K5	11	CO 1 - 5
3	3.1 Prochordata: Characteristic Features of Cephalochordata, Hemichordata and Urochordata- Affinities of Hemichordata 3.2 Agnatha: Characteristic Features 3.3 Pisces: Characteristic Features – Parental Care and Migration in Fishes	K1 – K5 K1 K1 – K5	9	CO 1 - 5
4	4.1 Amphibia and Reptilia: Characteristic Features 4.2 Snakes of South India - Turtle Conservation 4.3 Aves: Characteristic Features – Types of Feathers - Flight Adaptations	K1 K1 – K5 K1 – K5	10	CO 1 - 5
5	5.1 Mammalia: Characteristic Features 5.2 Type: <i>Oryctolagus cuniculus</i> 5.3 Aquatic Mammals	K1 K1 – K5 K1 – K5	12	CO 1 - 5

BOOK(S) FOR STUDY

Ayyar, E. M. & Ananthakrishnan, T. N. (2016). *Manual of Zoology*. Vols. I & II Madras: S. Viswanathan.

BOOKS FOR REFERENCE

Ali, M. S., Raju, S. V. S. & Alam, M. R. T. (2015). *A Textbook of Fundamental and Applied Entomology*. New Delhi. Kalyani.

Dhami, P. S. & Dhami J.K. (2015). *Invertebrate Zoology*. New Delhi: S. Chand.

Ismail, S.A., *The Earthworm Book*. Goa: India, 2005

Jordan, E.L. (2012). *Invertebrate Zoology*. New Delhi: S. Chand.

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Kotpal, R. L. (2020). *Modern Textbook of Zoology: Invertebrates*. Meerut: Rastogi.

Kotpal, R. L. (2019). *Modern Textbook of Zoology: Vertebrates*. Meerut: Rastogi.

Nair, N. C., Thangamani, A., Leelavathy, S., Prasannakumar, S., Soundarapandian, N., Murugan, T., Narayanan, L. M and Arumugam N. (2013). *Animal Diversity (Invertebrata and Chordata)*. Nagarcoil Saras.

Singh, H. P. & Rastogi, P. (2016). *Parasitology*. Meerut: Rastogi.

Springer, J.T. & Holley, D. (2013). *An Introduction to Zoology: Investigating the Animal World*. Massachusetts. Jones & Bartlett Learning.

JOURNALS

Journal of Animal Science

Open Journal of Animal Sciences

WEB RESOURCES

www.sanctuaryasia.com

www.iaszoology.com

<http://www.earthlife.net>

Edx course on corals-<https://www.edx.org/course/tropical-coastal-ecosystem-8>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the zoological name)	K1	1 - 5	10 (5 x 2 = 10)
B (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	6 - 10	10 (5 x 2 = 10)
C (Internal choice) Essay	K3 / K3	11 or 12	10 (1 x 10 = 10)
	K4 / K4	13 or 14	10 (1 x 10 = 10)
D (Internal choice) Paragraph	K5 / K5	15 or 16, 17 or 18	10 (2 x 5 = 10)
Total			50

Other Components:**Total Marks: 50**

Quiz / Assignment / Poster presentation / Scrap book / Illustration assignment

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the zoological name)	K1	1 - 10	20 (10 x 2 = 20)
B (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 - 20	20 (10 x 2 = 20)
C (Two questions at each level with Internal choice) Essay	K3 / K3	21 or 22, 23 or 24	20 (2 x 10 = 20)
	K4 / K4	25 or 26, 27 or 28	20 (2 x 10 = 20)
D (Four questions with Internal choice) Paragraph	K5 / K5	29 or 30, 31 or 32, 33 or 34, 35 or 36	20 (4 x 5 = 20)
Total			100

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/AC/GZ14												
	Course Title: General Zoology I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	2	2	1	-	-	-	-	-
CO 2	3	2	3	2	2	2	2	1	-	-	-	-	-
CO 3	3	3	3	2	2	2	3	1	-	-	-	-	-
CO 4	3	3	3	2	2	2	3	1	-	-	-	-	-
CO 5	3	3	3	2	2	2	3	1	-	-	-	-	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Offered by the Department of Zoology to Students of
Plant Biology and Biotechnology**

SYLLABUS

(Effective from the academic year 2023 - 2024)

GENERAL ZOOLOGY I PRACTICAL

CODE: 23ZL/AC/P111

CREDITS: 1

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable students to

- understand and examine the morphology and anatomy of invertebrate and chordate specimens through dissection, simulation and audio - visual demonstrations
- mount the mouthparts of insects and different types of scales of fishes
- identify and classify invertebrate and chordate specimens based upon their distinctive characteristics
- identify various parasites and insect vectors based on their distinctive features and life cycle
- familiarize students with the habits and habitat of invertebrate and chordate fauna of the campus and create awareness on biodiversity conservation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall and identify various Invertebrates and Chordates based on their distinctive characteristics and biological significance	K1, K2
CO 2	associate and illustrate the location and organization of organs and organ systems in Invertebrates and Chordates	K3
CO 3	apply the knowledge to compare the structure, functions and adaptations of various Invertebrates and Chordates	K4
CO 4	analyze the structural and functional organization of Invertebrates and Chordates	K5
CO 5	compile a document of campus fauna and use practical skills for displaying the dissections and mounts	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	<u>DISSECTIONS</u> <i>Periplaneta americana</i> / Prawn - Digestive system, Nervous system <u>Computer Simulated</u> <u>Dissection</u> Invertebrata - Earthworm; Chordata - Frog	K3- K6	8	CO 2 - 5
2	<u>MOUNTS</u> Mouth parts: Mosquito and Housefly Scales: Ctenoid Scale - Mullet, Placoid Scales - Shark and Cycloid Scales - Carp	K4- K6	6	CO 3 - 5
3	<u>SPOTTERS</u> <u>Identification and description of the following</u> <u>Invertebrates and Chordates</u> Protozoa : <i>Paramecium caudatum</i> Coelenterata : <i>Hydra sp.</i> , <i>Tubipora sp.</i> and <i>Meandrina</i> <i>sp.</i> Annelida : <i>Hirudinaria sp.</i> and <i>Nereis</i> <i>sp.</i> Arthropoda: <i>Palamnaeus sp.</i> and <i>Penaeus</i> <i>indicus</i> Mollusca : <i>Sepia</i> , <i>Ostrea sp.</i> and <i>Xancus sp.</i> Echinodermata: <i>Asterias sp.</i> , <i>Holothuria</i> <i>sp.</i> Prochordata : <i>Amphioxus sp.</i> , and <i>Ascidia sp.</i> Pisces : <i>Scoliodon</i> <i>sp.</i> and <i>Notopterus sp.</i> Amphibia : <i>Duttaphrynus melanostictus</i> and <i>Ambystoma sp.</i> Reptilia : <i>Chameleon sp.</i> , <i>Naja naja</i> and <i>Hydrophis</i> Aves : <i>Dinopium sp.</i> and <i>Psittacula sp.</i> Mammalia : <i>Manis sp.</i> and Bat	K1- K3	6	CO 1 - 2
4	<u>SPOTTERS</u> <u>Observation and identification of the following Parasites</u> <i>Entamoeba histolytica</i> , <i>Taenia solium</i> and <i>Ascaris</i> <i>lumbricoides</i> <u>Observation and identification of the following Vectors</u> <i>Anopheles sp.</i> , <i>Aedes sp.</i> , <i>Pediculus sp.</i> , <i>Xenopsylla cheopis</i> and <i>Cimex sp.</i>	K1- K3	3	CO 1 - 2
5	<u>OBSERVATION AND DOCUMENTATION</u> Identification of any five invertebrate and five chordate fauna in the SMC Campus (Observation of habit, habitat and adaptive features)	K5, K6	3	CO 4 - 5

Record Work

Maintenance of a record of practical work done is essential for continuous assessment and is an integral part of the syllabus.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Section	Question	Cognition Levels	Marks Allotted
A	Major Dissection	K3, K4, K5, K6	20
B	Minor Dissection/Mount	K4, K5, K6	15
C	Spotter	K1, K2, K3	15
Total			50

Other Components:

Total Marks: 50

Component	Cognition Levels	Marks allotted
Documentation of fauna	K5, K6	20
Observation Book and Record	K1, K2, K3, K4	30
Total		50

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Section	Question	Cognition Levels	Marks Allotted
A	Major Dissection	K3, K4, K5, K6	20
B	Minor Dissection/Mount	K4, K5, K6	15
C	Spotter	K1, K2, K3	15
Total			50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/AC/P111												
	Course Title: General Zoology I Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 2	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 3	3	3	3	2	2	3	2	1	-	-	-	-	-
CO 4	3	3	3	2	2	3	1	1	-	-	-	-	-
CO 5	3	3	3	2	2	3	2	1	-	-	-	-	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Core offered for
B.A. / B.Sc. / B.Com. /B.C.A. / B.S.W. Degree Programmes**

SYLLABUS
(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23ZL/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 (13 Hours)
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 (13 Hours)

3.1 Energy conservation

- 3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant
- 3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

- 3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing
- 3.2.2 **Configuring Email**
Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails
- 3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

- Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.
- Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.
- Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.
- John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.
- Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.
- Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.
- Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.
- Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.
- Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A./ B.S.W. / B.V.A. /B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

GENERAL BOTANY - I

CODE: 23BT/AC/GB14

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to

- Describe the morphological and anatomical features Algae and Fungi
- Elucidate the life cycle patterns of lower plants
- Recollect and summarize the principles of plant systematics
- Identify and classify the various types of plant diseases
- Familiarize and appreciate the importance of sustainable agriculture

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and explain the general characteristics of Algae and Fungi, identify the plant diseases of crop plants; to explore suitable control measures, derive the family and describe them in technical terms and list the agricultural practices	K1
CO2	illustrate the structural details of lower forms, identify the causal organisms of plant diseases, assign the plants to the respective families, summarize the cultural practices in agriculture.	K2
CO3	analyse the vegetative and reproductive structure of Algae and Fungi; categorize the common plant diseases and their control measures	K3
CO4	construct and compare the life cycle patterns of Algae, Fungi and flowering plants; Evaluate the characteristics of flowering plants, summarize the practices involved in sustainable agriculture.	K4
CO5	compile the characteristic features of Algae, Fungi and Angiosperms; Explore and appreciate the economic value of Angiosperm	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Algology 1.1 Salient features of Algae 1.2 A detailed study of the Life Cycle of the following Algae (no development) a. <i>Nostoc</i> b. <i>Chara</i> c. <i>Sargassum</i>	K1- K6 K1 -K3 K1- K5	10	1-5
2	Mycology 2.1 Salient features of Fungi 2.2 A detailed study of the Life Cycle of the following Fungi (no development) a. <i>Rhizopus</i> b. <i>Aspergillus</i> c. <i>Agaricus</i>	K1- K5 K1 -K3 K1 -K3	10	1-5
3	Plant Pathology 3.1 A study of the causal organism, symptoms and control measures of the following plant diseases: a. Citrus Canker b. Leaf curl of Papaya c. Red Rot of Sugarcane	K1- K4 K1- K4	10	1-5
4	Taxonomy 4.1 A general outline of Bentham and Hooker's Classification 4.2 A study of the salient features of the following families and their economic Importance: a. Annonaceae b. Cucurbitaceae c. Apocynaceae d. Lamiaceae e. Euphorbiaceae f. Musaceae	K1- K5 K1-K4 K1- K5	11	1-5
5	Agricultural practices 5.1 Preparation of Soil 5.2 Organic Farming 5.3 Biofertilizer 5.4 Biopesticides – Bacterial and Plant based 5.5 Mushroom Cultivation- Oyster	K1- K5 K1- K2 K3-K4 K1 –K5 K3 K4- K5	11	1-5

BOOK FOR STUDY

Rao, K. N. and R.V.Narayanaswamy. Ancillary Botany. Madras: S.Vishwanathan, 1986.

BOOKS FOR REFERENCE

Bhattacharya Gopal, Textbook of Mycology. Agrotech, 2013.

Bhattacharyya.P and Purohit.S.S. Organic Farming Biocontrol and Biopesticide technology. Agrobios India, 2012.

Chopra, G.L., A Text book of Fungi, Meerut, India: S.Nagin & Co. Pandey B.P., College Botany. Vol. I Fungi & Pathology. 1997.

Pandey, B.P. Text Book of Botany Algae, New Delhi: S.Chand, 2000.

Pandey, B. P., Taxonomy of Angiosperm, S. Chand & Company, 2015.

Sharma, O.P., Text Book of Algae, New Delhi: Tata McGraw Hill, 1992.
 Sharma, O.P. Text book of Fungi, New Delhi: Tata McGraw – Hill, 2010.
 Sharma, O. P., Plant Taxonomy, McGraw Hill Education, 2017.
 Shrivastava A.K. Agriculture Science and Technology., Agrotech., 2013.
 Vashista B.R., Sinha P and Singh V., New Delhi: Botany for Degree students, Algae, S.Chand, 2010.
 Vashista B.R. New Delhi: Botany for Degree Students – Fungi, S.Chand. 1982.

JOURNALS

International Journal of Algae
 Fungal Biology
 Journal of Botany
 Journal of Natural Area Journal

WEB SOURCES

www.springer.com/life+science

PATTERN OF ASSESSMENT

No Unit should be left out

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10(10 x 1 = 10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20(1 x 20 = 20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice)Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6= 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice)Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/AC/GB14												
	Course Title: General Botany - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

GENERAL BOTANY - I – PRACTICAL

CODE: 23BT/AC/P111

CREDITS: 1

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable the students to

- Identify and describe the morphological, anatomical and reproductive structures of lower plants
- Observe and differentiate the morphological and anatomical features of Algae, Fungi through permanent slides
- Identify the plant pathogen through visualization of infected parts of the plants
- Assign and classify the plants to respective families based on the characters
- Dissect and describe the plants in technical terms and familiarise and appreciate the importance of sustainable agricultural practices

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect and summarize the general characteristics of Algae and Fungi; Identify plant disease; observe salient features of plants belonging to different families	K1
CO2	examine the Taxonomic characters of Angiosperms; Illustrate the vegetative and reproductive structures of Algae and fungi; Distinguish the plant disease based on symptoms.	K2
CO3	dissect the floral parts of the given Angiospermic plants; compare and analyse the structure of Algae and Fungi.	K3
CO4	summarize the characters of Algae and Fungi; compare the salient features of Angiospermic families	K4
CO5	develop the skill of observation by visualising morphological, anatomical structures of Algae and Fungi; Construct floral diagram and floral formula for the families; apply the concept of sustainability in agriculture	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	ALGAE Identification, Observation and Sketching of the following Algal forms - 1. <i>Nostoc</i> 2. <i>Chara</i> 3. <i>Sargassum</i>	K1- K5	6	1-5
2	FUNGI Identification, Observation and Sketching of the following Fungal forms - 1. <i>Rhizopus</i> 2. <i>Aspergillus</i> 3. <i>Agaricus</i> PLANT PATHOLOGY Identification, observation and sketching of the following- 1. Citrus Canker 2. Leaf curl of papaya 3. Red Rot of Sugarcane	K1- K5	8	1-5
3	TAXONOMY 3.1 Derivation (Assign the plants to their respective families) 3.2 Description in Technical Terms of Plants belonging to the Families mentioned in the syllabus 3.3 Dissection of flowers, observation and sketching of floral Parts, construction of floral diagram and floral formula	K1- K5	10	1-5
4	AGRICULTURAL PRACTICES Demonstration of microbial quality of the Biofertilizers available in the market (<i>Rhizobium</i> and <i>Azospirillum</i> , <i>Azotobater</i>)	K1- K5	2	1-5

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Section	Question	Marks Allotted	Cognitive Level
A	Dissection of floral parts	15	K5
B	Derivation of family	5	K4
C	Spotter (Algae, Fungi, Plant Pathology and Agricultural practices)	20	K1-K3
D	Practical record submission	10	K2
Total		50	

End-Semester Examination:**Total Marks: 50****Duration: 3 hours**

Section	Question	Marks Allotted	Cognitive Level
A	Dissection of floral parts	15	K5
B	Derivation of family	5	K4
C	Spotter I (Algae and Fungi)	20	K3
D	Spotter II (Plant pathology and Agricultural practices)	10	K1-K2
Total		50	

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BT/AC/P111												
	Course Title: General Botany – I - Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

CHORDATA

CODE:23ZL/MC/CH24

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

To enable students to

- understand the characteristic features, structural organisation and functions of Prochordates and Agnathans and the phylogenetic relationships between them and other animal groups
- understand the characteristic features, structural organisation, functions and special adaptations of Fishes
- understand the characteristic features of Amphibians and Reptiles, the structural organisation and functions of Reptiles and the special adaptations of Amphibians and Reptiles
- understand the characteristic features, structural organisation, functions and special adaptations of birds
- understand the characteristic features, structural organisation, functions and special adaptations of mammals

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the classification, characteristic features, structural organisation, functions and special adaptations of Chordates	K1
CO2	Explain the classification, characteristic features, structural organisation, functions and special adaptations of Chordates	K2
CO3	Apply the acquired knowledge to identify Chordates and discuss their characteristics, structural organisation, functions and special adaptations	K3
CO4	Classify Chordates and examine their characteristics, structural organisation, functions and adaptations	K4
CO5	Evaluate phylogenetic relationships between taxa and compare the characteristics, structural organisation, functions and adaptations of Chordates	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction –Outline Classification - Systematic position of <i>Balanoglossus</i> - Characteristic Features of the Phylum Chordata 1.2 Prochordates: Characteristic Features of Cephalochordata, <i>Amphioxus</i> (type study) and Affinities of <i>Amphioxus</i> – Characteristic Features and Retrogressive Metamorphosis in Urochordata 1.3 Agnatha: Characteristic Features and Affinities of Cyclostomata– Basic differences between Lamprey and Hagfish	K1 -K5	12	1-5
2	2.1 Pisces: Characteristic Features and Classification up to order level 2.2 Type: <i>Scoliodon sorrakowah</i> (type study excluding endoskeleton) 2.3 Accessory Respiratory Organs - Parental Care - Anadromous and catadromous migration in fishes with an example	K1-K5	12	1-5
3	3.1 Amphibia: Characteristic Features and Classification up to order level - Neoteny in Urodela - Parental Care in Amphibia 3.2 Reptilia: Characteristic Features and Classification up to order level - <i>Calotes versicolor</i> (type study excluding endoskeleton) - Turtle Conservation 3.3 Identification of venomous and non-venomous snakes -Snakes of South India – Poison Apparatus and Biting Mechanism	K1-K5	14	1-5
4	4.1 Aves: Characteristic Features and Classification up to order level – <i>Columba livia</i> (type study including endoskeleton) 4.2 Flightless Birds (Ratitae and Sphenisciformes): Characteristic features, adaptations and examples 4.3 Flight Adaptations and Migration in Birds	K1-K5	16	1-5
5	5.1 Mammalia: Characteristic Features and Classification up to order level – Adaptations and examples of Monotremes and Marsupials 5.2 Types of dentition with examples and toothless mammals 5.3 Flying mammals and their adaptations	K1-K5	11	1-5

BOOKS FOR STUDY

Ayyar, Ekambaranatha, M and Ananthakrishnan T.N. (2016). *A Manual of Zoology. Vol. II*
Chetpet: S. Viswanathan & Co
Jordan, E.L. and Verma P.S., *Chordate Zoology*, (2013). New Delhi: S. Chand.

BOOKS FOR REFERENCE

Kotpal, R.L. (2019). *Modern Text Book of Zoology- Vertebrates*. Meerut: Rastogi Publications
Newman, N.H. (1981). *The Phylum Chordata*. Agra: Satish Book Depot
Prasad, S. (2012). *Textbook of Vertebrate Zoology*. Chennai: New Age International Pvt. Ltd
Pough, Harvey F and Janis Christine M. (2018). *Vertebrate Life*. Sinauer Associates
Romer, A.S. and Parson T.S. (1986). *The Vertebrate Body*. Philadelphia: Saunders College
Saxena, R.K and Sumitra Saxena, (2016). *Comparative Anatomy of Vertebrates*, (2nd ed.). New Delhi: Viva Books
Sedgewick A. (1960). *A Text Book of Zoology - Vol II & III*. Allahabad: Central Book Depot
Thangamani, A, Prasanna Kumar S. Arumugam N. and Narayanan L.M. (2013). *A Textbook of Chordates*. Nagarcoil Saras
Young, J.Z. (1978). *The Life of Vertebrates*. New York: Oxford University Press

JOURNALS

Journal of Animal Science
Open Journal of Animal Sciences
Animal Science Journal

WEB RESOURCES

animaldiversity.org
www.iaszoology.com
<https://www.sanctuarynaturefoundation.org>
<https://www.inaturalist.org/>
Swayam Nptel course: Basic Course in Ornithology
https://onlinecourses.nptel.ac.in/noc22_ge10/preview

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Recall the Zoological name of, Define, List, Give an example of, Match the following, etc.)	K1 (10 marks)	5 x 2 =10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Short answers, Relate, Identify, Comment on, etc.)	K2 (10 marks)	5 x 2 =10	5 K2 questions	5 K2 questions
C (Answer any one question) Essay	K3 (10 marks)	1x10 =10	1 K3 question	2 K3 questions
D (Answer any one question) Essay	K4 (15 marks)	1x15 =15	1 K4 question	2 K4 questions
E (Answer any one question) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Seminars/Quiz/Assignments/Exhibition/Model Making

Two to three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the contribution of, Define, List, Give an example of, Match the following, etc.)	K1 (20 marks)	$10 \times 2 = 20$	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Short answers, Relate, Identify, Comment on, etc.)	K2 (20 marks)	$10 \times 2 = 20$	10 K2 questions	10 K2 questions
C (Answer any two questions) Essay	K3 (20 marks)	$2 \times 10 = 20$	2 K3 questions	3 K3 questions
D (Answer any two questions) Essay	K4 (30 marks)	$2 \times 15 = 30$	2 K4 questions	3 K4 questions
E (Answer any two questions) Paragraph	K5 (10 marks)	$2 \times 5 = 10$	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/CH24												
	Course Title: CHORDATA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	3	3	1	3	2	3	2	3
CO 2	3	3	2	2	3	3	3	1	3	2	3	2	3
CO 3	3	3	2	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	2	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	2	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

DEVELOPMENTAL BIOLOGY

CODE: 23ZL/MC/DB23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable students to

- understand the basic concepts and theories in Developmental Biology along with various phases of animal development such as gametogenesis and fertilization
- comprehend the basic concepts and theories along with various stages of animal development and developmental processes
- understand the different stages of development along with the cellular and molecular changes that occur during each stage and the process of organogenesis
- comprehend the concept of potencies, mechanisms of metamorphosis and regeneration and the types and applications of stem cells and related ethical issues
- understand the causes of infertility and acquire knowledge on the recent advances in the field of developmental biology and the related bioethical issues, the deficiency of folic acid and effect of teratogens on embryonic development

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
1	recall the important concepts and theories in Developmental Biology, Gametogenesis, stages in animal development, process of organogenesis, types and causes of infertility, Assisted Reproductive Technology, Totipotency, significance of folic acid deficiency, Teratogenesis and the mechanisms of metamorphosis and regeneration and the types and applications of stem cells and related ethical issues	K1
2	describe the processes, concepts and theories relating to gametogenesis, fertilization, stages in animal development, process of organogenesis, types and causes of infertility, Assisted Reproductive Technology, Totipotency, significance of folic acid deficiency, Teratogenesis and the mechanisms of metamorphosis and regeneration and the types and applications of stem cells and related ethical issues	K2
3	apply the knowledge obtained to explain concepts and theories relating to Developmental Biology, processes of gametogenesis, fertilization, stages in animal development, process of organogenesis, types and causes of infertility, Assisted Reproductive Technology, Totipotency, significance of folic acid deficiency, Teratogenesis and the mechanisms of metamorphosis and regeneration and the types and applications of stem cells and related ethical issues	K3

COs	DESCRIPTION	CL
4	Analyse the concepts and theories relating to Developmental Biology, processes of gametogenesis, fertilization, stages in animal development, process of organogenesis, types and causes of infertility, Assisted Reproductive Technology, Totipotency, significance of folic acid deficiency, Teratogenesis and the mechanisms of metamorphosis and regeneration and the types and applications of stem cells and related ethical issues	K4
5	Evaluate the concepts and theories relating to developmental biology, processes of gametogenesis, fertilization, stages in animal development, process of organogenesis, types and causes of infertility, Assisted Reproductive Technology, Totipotency, significance of folic acid deficiency, Teratogenesis and the mechanisms of metamorphosis and regeneration and the types and applications of stem cells and related ethical issues	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction - Brief History - Theories of Preformation, Epigenesis, Pangenesis, Recapitulation, Germplasm - Mosaic and Regulative Development - Gradient and Organisers 1.2 Gametogenesis: Spermatogenesis - Morphology and Types of sperms – Oogenesis - Eggs – Morphology, Types 1.3 Fertilization: Physicochemical Aspects, Theories - Parthenogenesis	K1 - K5	11	1 - 5
2	2.1 Cleavage: Different patterns with examples – Factors influencing cleavage - Comparative study of Blastulation in Frog and Chick 2.2 Gastrulation: General Morphogenetic Movements in Chordate Embryos – Experiments by Spemann and Mangold - Comparative Study of Gastrulation in Frog and Chick - Cell lineage - Fate Maps and their significance 2.3 Embryonic Adaptations: Extra - Embryonic and Foetal Membranes - Types and Functions of Placenta	K1 - K5	11	1 - 5
3	3.1 Cell differentiation and differential activity Organogenesis in Frog: Ectodermal Derivatives – Brain and Eye 3.2 Mesodermal Derivatives: Heart and Blood 3.3 Endodermal Derivatives: Digestive Tract and its associated glands	K1 - K5	10	1 - 5
4	4.1 Metamorphosis in Insects and Amphibians 4.2 Regeneration: Mechanism and Types, Medical Applications 4.3 Concept of potencies: totipotency and pluripotency – nuclear transfer experiments – embryonic and haemopoietic stem cells – ethical issues	K1 - K5	10	1 - 5

UNIT	CONTENT	CL	HRS	CO
5	5.1 Infertility in humans - Types and causes 5.2 Assisted Reproductive Technology: Induced Ovulation and its Applications – Superovulation - <i>In vitro</i> Fertilisation - Cryopreservation - Surrogate Motherhood – ethical issues 5.3 Folic acid deficiency and embryonic development - Teratogenic agents and their impact on embryonic development	K1 - K5	10	1 - 5

BOOKS FOR STUDY

Verma, P.S. & Agarwal, V. K. (2014). Chordate Embryology. New Delhi: S. Chand. Sastry, K.V & Shukla, V. (2017). Developmental Biology. Meerut: Rastogi Publication.

BOOKS FOR REFERENCE

Balinsky, B.I. (2012). An Introduction to Embryology. Japan: Holt-Saunders.
 Gilbert, S. F. (2013). Developmental Biology. Massachusetts: Sinauer Associates, Inc. Rastogi, V.B. & Jayaraj, M. S. (2014). Developmental Biology. Meerut: Kedarnath Ramnath.
 Starr, C. & Taggart, R. (2003). Biology: The Unity and diversity of life. California :Brooks/Cole Pub Co. Warren, J. (2003). Developmental Biology. New York and Canada: Macmillan.
 Wolpert, L., Tickle, C. & Arias, A. M. (2019). Principles of Development. London: University Press.

JOURNALS

International Journal of Developmental
 Biology Journal of Developmental Biology

WEB RESOURCES

<http://www.visembryo.com/baby/index.html>
<http://www.sdbonline.org/>

SWAYAM COURSE on Introduction to Developmental Biology

https://onlinecourses.nptel.ac.in/noc21_bt43/preview

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	5 x 2 = 10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	5 x 2 = 10	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	1 x 10 =10	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	1 x 15 =15	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Seminars / Quiz / Case Study / Poster Presentation / Assignment

Two to three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	$10 \times 2 = 20$	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	$10 \times 2 = 20$	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	$2 \times 10 = 20$	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	$2 \times 15 = 30$	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	$2 \times 5 = 10$	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/DB23												
	Course Title: DEVELOPMENTAL BIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	2	2	1	3	2	2	2	2
CO 2	3	2	3	2	2	2	2	1	3	2	3	2	3
CO 3	3	3	3	2	3	2	2	1	3	2	3	3	3
CO 4	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 5	3	3	3	2	3	2	3	1	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

CHORDATA AND DEVELOPMENTAL BIOLOGY PRACTICAL

CODE:23ZL/MC/P222

CREDITS:2

L T P:0 0 3

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

To enable students to

- Understand and examine the morphology and anatomy of chordate specimens through dissection, simulation and audio - visual demonstrations.
- Mount the otolith and different types of scales of fishes.
- Identify and classify chordate specimens based on their distinctive characteristics.
- Identify various stages in the development of chordates based on their distinctive features and/or life cycle
- Write a report on the chordate fauna observed on campus, upload the observations to global biodiversity portals for the purpose of conservation and maintain an observation notebook and a record notebook

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	Submit a record of practical work carried out in the laboratory and/or a report on a field/laboratory visit and/or report of campus faunal survey	K1
CO 2	Illustrate and describe chordate spotters	K2
CO 3	Demonstrate skills to mount the otolith of fish and scales of different fishes, and computer simulated dissection (not for evaluation)	K3
CO 4	Examine the habit and habitat of campus fauna and identify the stages of chordate development and different types of placenta of chordates	K4
CO 5	Dissect and display the viscera and digestive system of fish	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	<u>Dissections</u> Fish: Viscera and Digestive system <u>Computer Simulated Dissection</u> (not for evaluation) Frog - All systems	K5	12	CO 5
2	<u>Observation, identification and description of the following:</u> <ol style="list-style-type: none"> 1. Sections of testis and ovary of a mammal. 2. Different kinds of vertebrate eggs (frog, reptile, bird and mammal). 3. Different kinds of sperm (frog, bird and mammal) 4. Stages of blastulation and gastrulation (Yolk-plug stage) of Frog. 5. Whole mounts of 13, 24, 33, 48, 72 and 96 hours chick embryo. 6. Sections through brain, heart, eye and ear of frog on prepared slides 7. Placenta of shark, sheep and pig 8. Life cycle of frog <u>Identification of any ten chordate fauna on SMC Campus (Observation and analysis of habit, habitat and adaptive features)</u>	K4	6	CO 4
3	<u>Mounts</u> Otolith of fish Scales: Ctenoid Scale - Mullet, Placoid Scale - Shark and Cycloid Scale - Carp	K3	9	CO 3
4	<u>Observation, Identification and description of the following Chordates:</u> Prochordata <ol style="list-style-type: none"> 1. <i>Balanoglossus</i> 2. <i>Amphioxus</i> 3. <i>Ascidia</i> Agnatha <ol style="list-style-type: none"> 1. <i>Petromyzon</i> 2. <i>Myxine</i> Pisces <ol style="list-style-type: none"> 1. <i>Trygon</i> 2. <i>Acipenser</i> 3. <i>Hippocampus</i> 4. <i>Catla catla</i> Amphibia <ol style="list-style-type: none"> 1. <i>Duttaphrynus melanostictus</i> 2. <i>Ambystoma tigrinum</i> 3. Axolotl larva of <i>Ambystoma</i> 4. <i>Ichthyophis</i> 	K2	9	CO 2

UNIT	CONTENT	CL	HRS	CO
	Reptilia 1. <i>Chameleon</i> 2. <i>Dryophis</i> 3. <i>Daboia russelli</i> 4. <i>Testudo elegans</i>			
	Aves 1. <i>Halcyon smyrnensis</i> 2. <i>Athene brama</i> 3. <i>Coracius benghalensis</i> 4. <i>Upupa epops</i>			
	Mammalia 1. <i>Pteropus giganteus</i> 2. <i>Manis crassicaudata</i> 3. <i>Loris gracilis</i> 4. <i>Osphranter rufus</i>			
	Osteology 1. Aegithognathous palate 2. Desmognathous palate 3. Synsacrum 4. Rabbit Dentition 5. Dog Dentition			
5	1. Campus Faunal Survey Report 2. Maintenance of a record of practical work done	K1	3	CO 1

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (15 marks)	1 x 15 = 15	1 question	1 question
B (Unit 2)	K4 (18 marks)	6 x 3 = 18	6 questions (DB 5 + Fauna 1)	6 questions
C (Unit 3)	K3 (6 marks)	1 x 6 = 6	1 question	1 question
D (Unit 4)	K2 (6 marks)	3 x 2 = 6	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Report & Observation notebook	Report & Observation notebook
Total		50	11	11

End Semester Examination: Total Marks: 50 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (15 marks)	1 x 15 = 15	1 question	1 question
B (Unit 2)	K4 (18 marks)	6 x 3 = 18	6 questions (DB 5 + Fauna 1)	6 questions
C (Unit 3)	K3 (6 marks)	1x 6 = 6	1 question	1 question
D (Unit 4)	K2 (6 marks)	3 x 2 = 6	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Record Notebook	Record Notebook
Total		50	11	11

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/P222												
	Course Title: CHORDATA AND DEVELOPMENTAL BIOLOGY PRACTICALS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	3	3	2	3	3	3	3	3
CO 2	3	3	2	2	2	3	2	2	3	3	3	3	2
CO 3	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 5	3	3	2	2	3	3	2	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied core Offered by the Department of Zoology to Students of
Plant Biology and Biotechnology**

SYLLABUS

(Effective from the academic year 2023-2024)

GENERAL ZOOLOGY II

CODE: 23ZL/AC/GZ24

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable students to

- understand the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging
- comprehend the various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals
- understand the basic concepts in Genetics, different patterns of inheritance, types of mutations, types and applications of stem cells and related ethical issues
- comprehend the mechanisms involved in different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccination
- understand certain evolutionary strategies and human evolutionary stages

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K1

COs	DESCRIPTION	CL
CO 2	outline the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K2
CO 3	apply the knowledge to describe the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K3
CO 4	analyse the mechanisms involved in physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells and related ethical issues, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K4
CO 5	evaluate the mechanisms involved and elaborate on the physiological adaptations related to colour change, bioluminescence, diving, high altitude and changes in various systems during exercise and aging, various intraspecific and interspecific behaviours, learning behaviour and abnormal behaviours in animals, different patterns of inheritance, types of mutations, types and applications of stem cells and related ethical issues, different types of immunity, types of antigen and antibodies and their biological activity, hypersensitivity reactions, autoimmune disorders and vaccines, evolutionary strategies and human evolutionary stages.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Animal Physiology 1.1 Introduction - Chromophores: mechanism of colour change in cold blooded vertebrates - Bioluminescence: mechanism, examples and significance 1.2 Adaptations to diving and high altitudes 1.3 Exercise Physiology: respiration in exercise and cardiovascular system in exercise 1.4 Physiology of ageing: causes - changes in major systems	K1 - K5	10	1 - 5
2	Animal Behaviour 2.1 Introduction- Animal Associations: Commensalism, Mutualism, Parasitism and Predation 2.2 Play: General Attributes of Play and Examples - Courtship Behaviour: Steps and function - Courtship in birds (Sandgrouse, Bower bird, Baya weaver bird, Asian Koel & Indian Peafowl) 2.3 Learning Behaviour: Forms of Learning 2.4 Abnormal Behaviour in Domestic and Zoo Animals	K1 - K5	10	1 - 5
3	Genetics 3.1 Introduction – Human Chromosomes – Lethal Genes: types and examples 3.2 Patterns of Inheritance: Autosomal Dominant (Hypercholesterolaemia), Autosomal Recessive (Albinism), X- linked Dominant (Hypophosphatemia), X- linked Recessive (Duchenne Muscular Dystrophy), Y-linked (Hypertrichosis) and Mitochondrial inheritance (Kearns Sayre Syndrome) 3.3 Mutation: Classification - Chromosomal aberrations (Types and Examples) 3.4 Stem Cells: Sources and Types, Applications and Ethical issues	K1 - K5	11	1 - 5
4	Immunology 4.1 Immune System: Introduction - Innate Immunity and Acquired Immunity (Humoral and Cell Mediated Immunity) 4.2 Types of Antigens - Antibody Classes and their Biological Activity 4.3 Hypersensitivity reactions: types - Autoimmune disorders: Causes and Significance (eg. Rheumatoid Arthritis) 4.4 Vaccines: Types - National Immunisation Schedule (NIS) for infants, children and pregnant women	K1 - K5	10	1 - 5

UNIT	CONTENT	CL	HRS	CO
5	Evolution 5.1 Introduction to Evolution - Coevolution 5.2 Mimicry and Colouration: Types and significance 5.3 Distribution of Animals - Types, barriers and methods of dispersal of animals 5.4 Stages in Human Evolution - Cultural history	K1 - K5	11	1 - 5

BOOKS FOR REFERENCE

Agarwal, V.K. (2009). *Animal Behaviour*. New Delhi: S.Chand, 2009.

Verma, P.S., Agarwal, V. K. & Tyagi, B. S. (2015). *Animal Physiology*. New Delhi: S. Chand.

Sherwood, L. (2016). *Human Physiology – From Cells to Systems*. (9 ed.). USA: Wadsworth Publishing Company.

Sherwood, L., Klandorf, H. and Yancey, P. (2011). *Textbook of Animal Physiology*. New Delhi: Cengage Learning India Pvt. Ltd. New Delhi.

Cummings, R. M. (2012). *Human Heredity – Principles and issues*. 12th ed. Canada: Thomson Brooks/Cole.

Hall B. K., Hallgrimsson, B & Strickberger, M. W. (2014). *Strickberger's Evolution*. Massachusetts: Jones and Bartlett.

Klug, W. S., Cummings, M. R. & Spencer, C. (2018). *Concepts of Genetics*. (12th ed.). New Jersey: Pearson Education.

Mathur, R. (2016). *Animal Behaviour*. Meerut: Rastogi.

Owen, J. A., Punt, J. & Stranford, S. A. (2018). *Kuby Immunology*. New York 2013: W.H. Freeman & Company

Rastogi, V. B. (2015). *Evolutionary Biology (Organic Evolution)*. Meerut: Kedarnath Ramnath.

Rao . V. C. (2016). *Immunology*. Alpha Science.

Tomar, B. S. & Singh, S. P. (2019). *Animal Distribution, Evolution and Developmental Biology*. Meerut: Rastogi.

JOURNALS

Journal of Animal physiology and Animal Nutrition
 Journal of Animal Science
 International Journal of Zoological Research

WEB RESOURCES

NPTEL Course in Basics of Biology
https://onlinecourses.nptel.ac.in/noc22_bt17/preview
www.omim.org
<http://humanorigins.si.edu/>
<http://www.medicine.mcgill.ca/physio/vlab/>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (10 marks)	5 x 2 = 10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	5 x 2 = 10	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	1 x 10 =10	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	1 x 15 =15	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Quiz / Assignment / Video Assignment / Poster presentation / Case Study / Scrap book

Two to three components will be prescribed

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	$10 \times 2 = 20$	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	$10 \times 2 = 20$	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	$2 \times 10 = 20$	2 K3 question	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	$2 \times 15 = 30$	2 K4 question	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	$2 \times 5 = 10$	2 K5 question	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/AC/GZ24												
	Course Title: GENERAL ZOOLOGY II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 2	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 3	3	3	3	2	2	2	2	1	-	-	-	-	-
CO 4	3	3	3	2	2	2	3	1	-	-	-	-	-
CO 5	3	3	3	2	2	2	3	1	-	-	-	-	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

Allied Core Offered by the Department of Zoology to Students of

Plant Biology and Biotechnology

SYLLABUS

(Effective from the academic year 2023 - 2024)

GENERAL ZOOLOGY II PRACTICAL

CODE: 23ZL/AC/P221

CREDITS: 1

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable students to

- Understand the basic principle involved in the estimation of oxygen consumption by an aquatic animal and calculate the rate of oxygen consumption
- Comprehend the principle and procedure to observe the Barr body in squamous epithelial cells, to determine the blood groups and to detect the presence of HCG in the urine sample of pregnant women
- Develop the necessary skills for analysing the behaviour, pedigree of some human inherited traits/diseases/disorders, Mendelian traits and Karyotypes
- Identify and describe specific examples for bioluminescent organisms, animal associations, immune cells, coevolution, mimicry and colouration and stages of evolution in man
- Write a report on the inheritance pattern of Mendelian traits, genetic diseases/disorders and maintain an observation and record book

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	Submit a record of practical work carried out in the laboratory and/or report on pedigree analysis and Mendelian traits	K1
CO 2	Illustrate and describe the bioluminescent organisms, immune cells, animal associations and evolutionary adaptations	K2
CO 3	Demonstrate the skills to identify the Barr body in squamous epithelial cells, to determine the blood groups and to detect the presence of HCG in the urine sample	K3
CO 4	Analyse the behaviour of animals, pedigree of some human inherited traits/diseases/disorder, Mendelian traits and normal and abnormal Karyotypes	K4
CO 5	Estimate the oxygen consumption in an aquatic animal with reference to body weight	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	i. Oxygen consumption in an aquatic animal with reference to body weight.	K5	8	CO 5
2	i. Time Budgeting of Courtship and Play Behaviour ii. Pedigree Analysis of some human inherited traits/disorders/diseases iii. Study of any five Mendelian Traits iv. Observation and identification of Karyotypes: Normal male and female, Turner's, Klinefelter's and Down's syndrome karyotypes	K4	6	CO 4
3	i. Squamous epithelium squash preparation – Barr body ii. ABO - Blood Grouping and Rh – Typing iii. Pregnancy test: ELISA- Qualitative Test for Pregnancy	K3	6	CO 3
4	Observations and Identification of the following spotters: i. Bioluminescent animals - Comb Jelly, Firefly and Angler fish ii. Animal Associations: Parasitism - <i>Wuchereria bancrofti</i> and <i>Sacculina</i> on Crab Mutualism - Sea Anemone on Hermit Crab Commensalism - <i>Echeneis</i> Predation – Octopus iii. Immune cells - Basophil, Neutrophil, Eosinophil, Phagocyte and Dendritic cell iv. Coevolution: a) Plant and Pollinator - <i>Centropogon</i> flower and Hummingbird b) Predator and Prey - Rough-skinned Newt and Garter Snake v. Mimicry and Colouration: a) Batesian mimicry - Crimson Rose/Common rose and Common Mormon b) Mullerian mimicry - Bees and Wasps b) Protective Colouration - Sand Grasshopper c) Aggressive Colouration - Poison Dart Frog vi. Stages in the evolution of man	K2	3	CO 2
5	i. Reports on Pedigree analysis of some human inherited traits/disorders/diseases and Mendelian traits ii. Maintenance of an observation and record book of practical work is an integral part of the syllabus.	K1	3	CO 1

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (15 marks)	$1 \times 15 = 15$	1 question	1 question
B (Unit 2)	K4 (8 marks)	$2 \times 4 = 8$	2 questions	2 questions
C (Unit 3)	K3 (10 marks)	$1 \times 10 = 10$	1 question	1 question
D (Unit 4)	K2 (12 marks)	$4 \times 3 = 12$	4 questions	4 questions
E (Unit 5)	K1 (5 marks)	5	Report & Observation notebook	Report & Observation notebook
Total		50	8	8

End Semester Examination: Total Marks: 50**Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (15 marks)	$1 \times 15 = 15$	1 question	1 question
B (Unit 2)	K4 (8 marks)	$2 \times 4 = 8$	2 questions	2 questions
C (Unit 3)	K3 (10 marks)	$1 \times 10 = 10$	1 question	1 question
D (Unit 4)	K2 (12 marks)	$4 \times 3 = 12$	4 questions	4 questions
E (Unit 5)	K1 (5 marks)	5	Record notebook	Record notebook
Total		50	8	8

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/AC/P221												
	Course Title: GENERAL ZOOLOGY II PRACTICALS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	2	2	1	2	1	1	-	-	-	-	-
CO 2	3	2	3	2	2	1	2	1	-	-	-	-	-
CO 3	3	3	3	2	3	2	1	1	-	-	-	-	-
CO 4	3	3	3	2	2	2	1	1	-	-	-	-	-
CO 5	3	3	2	2	2	1	2	1	-	-	-	-	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.S.W. / B.C.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23ZL/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**B.Sc. DEGREE: BRANCH V - A PLANT BIOLOGY AND
PLANT BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023–2024)

GENERAL BOTANY - II

CODE: 23BT/AC/GB24

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable the students to

- describe the morphological, anatomical and reproductive feature of lower plants
- identify the life cycle patterns of Bryophytes, Pteridophytes and Gymnosperms
- study the internal structure of higher and lower plants
- explain the functional mechanism of higher plants
- explore the basic techniques in horticulture

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the salient features recall the anatomy of lower plants and Angiosperms; Physiology and list the various Horticulture techniques.	K1
CO2	explain the stages life cycle of lower forms; distinguish the anatomical characters; describe physiological concepts and demonstrate the techniques in Horticulture.	K2
CO3	relate the distinguishing characters of lower and higher forms of plants; illustrate the functional mechanism of higher plants and apply the knowledge on Horticultural practices	K3
CO4	categorise the lifecycle patterns of lower forms; differentiate and explain the internal features of angiosperms; elucidate the role of physiological process and Horticultural techniques	K4
CO5	assess the life cycle patterns in lower forms; compare the anatomical features; summarise the functional mechanism in the plants and evaluate the horticultural techniques	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Bryophyta, Pteridophyta and Gymnosperms 1.1 Salient features of Bryophytes, Pteridophytes and Gymnosperms 1.2 A detailed Study of the Life Cycle (no developmental study) of <i>Funaria</i> 1.3 A detailed Study of the Life-Cycle (no developmental study) of <i>Lycopodium</i> 1.4 A detailed Study of the Life-Cycle (no developmental study) of <i>Cycas</i>	K1-K6 K1 -K3 K1-K6 K1-K6 K1-K6	14	1-5
2	Anatomy 2.1 Classification of Meristem, Simple and Complex tissue and types of Vascular bundles 2.2 Primary Structure of Dicot Stem and Root 2.3 Primary Structure of Monocot Stem and Root 2.4 Leaf: Isobilateral and Dorsiventral 2.5 Structure and types of Stomata	K1-K6 K2-K6 K2-K6 K2-K6 K1-K4	10	1-5
3	Physiology – I 3.1 Mineral Nutrition in plants 3.2 Active and Passive transport, Osmosis, Diffusion, Imbibition 3.3 Photosynthesis - Light Reaction and Dark Reaction.	K1-K6 K4-K6 K1-K4	8	1-5
4	Physiology – II 4.1 Plant Growth Regulators - Auxins, Cytokinins, Gibberellins, ABA and Ethylene- Practical Applications 4.2 Photoperiodism 4.3 Vernalisation	K1-K6 K1-K6 K1-K4 K1-K4	8	1-5
5	Horticulture 5.1 Introduction, Branches of Horticulture and Garden Implements 5.2 Vegetative propagation methods: Cutting, Layering and Grafting 5.3 Cut Flowers, Importance and Methods to Prolong Vase Life 5.4 Flower Arrangement - Fresh and Dry 5.5 Bonsai Technique	K1-K6 K1-K4 K1-K4 K4-K6 K1-K6	10	1-5

BOOKS FOR STUDY

Rao, K. N., and R.V. Narayanaswamy, *Outlines of Botany*. Madras: S.Viswanathan, 1992.

BOOKS FOR REFERENCE

Janick, J. *Horticultural Science*. New Delhi: Surgeet.1982.
S N Gupta,*Instant Horticulture*, Jain Brothers, 21 Edition, 2023
Arya, R L, *Fundamentals of Horticulture*, Scientific Publishers,2022
Kumar, N. *Introduction to Horticulture*. Nagercoil: Rohini, 1980.
Pandey, B.P. *College Botany*, Vol II New Delhi: S.Chand, 2015.
Sheela, V. L. *Horticulture*, Chennai: MJP, 2011.
Singh, V., Pande P.C and Jain D.K: *Anatomy of Seed Plants*. India: Rastogi, 1996.Sinha,R.K.
Modern Plant Physiology. New Delhi: Narosa, 2014.
Verma. V. *Text Book of Plant Physiology*. New Delhi: Emkay, 2007.
Verma, S.K. *Plant Physiology and Biochemistry*. New Delhi: S Chand, 2008.
Vidarthi, R.D. *Text Book of Botany*. New Delhi: S.Chand, 2002.
Weston, G.D. *Crop Physiology – Biotechnology*. London: Butterworth – Heinemann, 2021.

WEB RESOURCES

BRYOPHYTES

www.cpbr.gov.au/bryphte

www.britannica.com

www.csun.edu

www.scilinks.org

blogs.ubc.ca

PTERIDOPHYTA

www.uwgb.edu

www.hardyferns.org

GYMNOSPERMS

www.conifers.org

Wikipedia.org/wiki/gymnosperms www.exploringnature.org

PHYSIOLOGY

www.journals.elsevier.com

www.springer.com

www.academicjournals.org

JOURNALS

Journal of Plant Physiology (Elsevier)

Journal of Plant Physiology (Science Direct)

International Journal of Plant Physiology and Biochemistry

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Question number	Mark distribution
A Objective (Fill in the blanks, True or False, Match the following, State, Define, List, Recall the binomial)	K1	1 – 10	10(10 x 1 =10)
B (4 out of 5 to be answered)) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	11 – 15	8 (4 x 2 = 8)
C (Internal choice) Paragraph	K3 / K3	16 or 17	6 (1 x 6= 6)
	K4 / K4	18 or 19	6 (1 x 6= 6)
D (Internal choice) Essay	K5 / K5	20 or 21	20(1 x 20 =20)
Total			50

Other Components:

Total Marks: 50

Quiz/ Assignment/ Seminar/ Scrapbook/ Poster presentation/ Model making

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Question number	Mark distribution
A Objective (Choose the correct answer, Fill in the blanks, True or False, Match the following,)	K1	1 - 20	20 (20 x 1 = 20)
B (8 out of 10 to be answered) (Distinguish, Differentiate, Illustrate, Short answers, Relate)	K2	21 - 30	16 (8 x 2 = 16)
C (Internal choice) (Two questions at each level with Internal choice) Paragraph	K3 / K3	31 or 32, 33 or 34	12 (2 x 6= 12)
	K4 / K4	35 or 36, 37 or 38	12 (2 x 6 = 12)
D (Two questions at each level with Internal choice) (Internal choice) Essay	K5 / K5	39 or 40, 41 or 42	40 (2 x 20 = 40)
Total			100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/AC/GB24												
	Course Title: General Botany - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 2	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 3	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 4	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 5	3	3	3	2	3	2	3	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**B.Sc. DEGREE: BRANCH V - A PLANT BIOLOGY AND
PLANT BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023–2024)

GENERAL BOTANY – II - PRACTICAL

CODE: 23BT/AC/P221

CREDITS: 1

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

To enable the students to

- identify the morphological, anatomical and reproductive structures of lower plants
- acquire the skill of sectioning of lower and higher forms of plants
- observe and differentiate the anatomical features in Bryophytes, Pteridophytes, Gymnosperms and Angiosperms
- examine and explain physiological experiments
- demonstrate the horticultural techniques

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify and recall the salient features of the forms included in the syllabus	K1
CO2	explain by giving reasons and differentiate the character found between lower forms and higher forms	K2
CO3	demonstrate the principle behind the physiological set up in angiospermic plants	K3
CO4	analyze the anatomical features of lower plants and angiospermic plants by taking sectioning	K4
CO5	elucidate with reasons the anatomy of the members of Bryophytes, Pteridophytes, Gymnosperms and Angiosperms	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Bryophyta, Pteridophyta and Gymnosperms 1. Bryophytes – <i>Funaria</i> 2. Pteridophyta – <i>Lycopodium</i> 3. Gymnosperm - <i>Cycas</i>	K1-K5	10	1-5
2	Anatomy 1. Primary structure of Dicot Stem and Root 2. Primary structure of Monocot Stem and Root 3. Leaf – Isobilateral and Dorsiventral 4. Stomatal Types	K1-K5	8	1-5

UNIT	CONTENT	CL	Hrs	CO
3	Physiology Experiments (Demonstrations) <ul style="list-style-type: none"> Effect of quality of light on rate of photosynthesis using Wilmot Bubbler Mohl's half leaf experiment Determination of Water Potential by Dye method Ganong's light screen experiment Deficiency and symptoms of various minerals in plant growth (Photographs) 	K1-K4	6	1-5
4	Horticulture technique (Demonstration) – cutting, layering and grafting	K1-K3	2	1-5

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Section	Section	Marks Allotted	Cognitive Level
A	Physiology experiments	20	K1 & K2
B	Spotter (Bryophytes, Pteridophytes and Gymnosperms, Anatomy and Horticulture techniques)		
C	Practical record submission	10	K3
D	Pteridophyta and Gymnosperm - Sectioning & Identification, Diagram, Reasons (1)	10	K4
E	Anatomy – Sectioning & Identification, Diagram, Reason (1)	10	K5
Total		50	

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Section	Question	Marks Allotted	Cognitive Level
A	Spotter (Bryophytes, Pteridophytes and Gymnosperms, Anatomy and Horticulture techniques)	20	K1 & K2
B	Physiology Experiments	10	K3
C	Pteridophyta and Gymnosperm - Sectioning & Identification, Diagram, Reasons (1)	10	K4
D	Anatomy – Sectioning & Identification, Diagram, Reason (1)	10	K5
Total		50	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BT/AC/P221												
	Course Title: General Botany – II Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 2	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 3	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 4	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 5	3	3	3	2	3	2	3	1	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

ANIMAL PHYSIOLOGY

CODE:23ZL/MC/AP34

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

To enable students to

- comprehend the different types and mechanisms for feeding, nutrition and respiration in animals, adaptations to high altitudes and diving, physiological impact of smoking and carbon monoxide poisoning with preventive measures and treatment
- understand the different types of circulatory systems in animals and regulatory mechanisms with reference to heart beat, blood pressure and temperature and related adaptations, role of drugs on heart rate, angiography, echocardiography, and physiological conditions relating to carbon monoxide poisoning and smoking
- comprehend the concepts and mechanisms relating to excretion, osmoregulation and nervous transmission and nervous control in animals
- understand concepts and mechanisms relating to sensory receptors, non-vertebrate endocrinology, endocrine disruptors in humans, chromophores and bioluminescence
- comprehend the concepts relating to hormones in pregnancy and complications in pregnancy, lactation, the physiology of sports and ageing and the pathophysiology of a few human diseases and disorders

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts, adaptations, structural, functional and pathophysiological aspects of organs and organ systems, diagnosis and treatment of diseases and disorders, physiology of ageing & sports	K1
CO2	describe the adaptations, structural, functional and pathophysiological aspects of organs and organ systems, diagnosis and treatment of diseases and disorders, physiology of ageing & sports	K2
CO3	apply the knowledge obtained to discuss the adaptations, structural, functional and pathophysiological aspects of organs and organ systems, diagnosis and treatment of diseases and disorders, physiology of ageing & sports	K3

COs	DESCRIPTION	CL
CO4	analyse the physiological concepts, adaptations, structural, functional and pathophysiological aspects of organs and organ systems, diagnosis and treatment of diseases and disorders, physiology of ageing & sports	K4
CO5	evaluate the basic concepts, adaptations, structural, functional and pathophysiological aspects of organs and organ systems, diagnosis and treatment of diseases and disorders and physiology of ageing & sports	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction – Types of Nutrition – Feeding Mechanisms – Types of Digestion 1.2 Respiratory organs and mechanism of respiration (trachea, gills, skin and lungs) – respiratory pigments 1.3 Adaptations to diving and high altitudes 1.4 Physiological effect of smoking and carbon monoxide in humans – Oxygen Therapy: indications, instruments used and precautions - Artificial Respiration: indications and types (manual and instrumental)	K1 - K5	12	1 - 5
2	2.1 Types of Circulatory Systems (open and closed) 2.2 Regulation of heart beat and blood pressure in humans 2.3 Role of drugs / chemicals (Atropine, Pilocarpine and Digitaline) on heart rate in humans – Angiogram, Angioplasty and Echo 2.4 Thermoregulatory mechanisms in insects and vertebrates	K1 - K5	12	1 - 5
3	3.1 Osmoregulatory mechanisms in invertebrates and vertebrates 3.2 Nitrogenous substances excreted by animals – adaptations based on habitat - classification of animals based on nitrogenous products excreted - Ornithine Cycle 3.3 Types of synapses (electric and chemical) – neuromuscular synapses – neurotransmitters – Neurotransmission and external agents (Drugs, toxins and pollutants), 3.4 Neural control of skeletal muscles: mechanism, Pathophysiology of hemiplegia, paraplegia and muscular dystrophy - Vertebrate Autonomic nervous system	K1 - K5	14	1 - 5

	4.1 Types of sensory receptors - nociception, electroreception and magnetoreception 4.2 Non vertebrate endocrinology (molluscs, annelids and arthropods) – Effect of endocrine disruptor chemicals in humans 4.3 Chromophores: mechanism of colour change in cold blooded vertebrates 4.4 Bioluminescence: chemistry, mechanism and significance	K1 - K5	12	1 - 5
5	5.1 Hormones in pregnancy and complications in pregnancy (ectopic pregnancy, breach, placenta previa) - hormones in lactation, composition and significance of breast milk and factors influencing lactation 5.2 Pathophysiology of human disorders/diseases: Anorexia nervosa, Chronic Obstructive Pulmonary Disorder, Alzheimer's, PolyCystic Ovarian Disorder and Osteoporosis 5.3 Sports Physiology: muscles in exercise, respiration in exercise, cardiovascular system in exercise and body fluids & salts in exercise – drugs and athletes 5.4 Physiology of ageing: changes in major systems, causes and theories	K1 - K5	15	1 - 5

BOOKS FOR STUDY

Verma, P.S., Agarwal, V. K. & Tyagi, B. S.(2015). *Animal Physiology*. New Delhi: S. Chand.

BOOKS FOR REFERENCE

Guyton, A.C. (2020). *Text Book of Medical Physiology*. (14th ed.). Philadelphia: W.B. Saunders & Co.

Hill, R. W. Wyse, G. A. and Anderson. M. (2016). *Animal Physiology* (4th ed.). U.K: Oxford University Press.

Hoar, W.S. (1975). *General and Comparative Physiology*. New Delhi: Prentice Hall of India Pvt. Ltd.

Prosser, C.L. (1973). *Comparative Animal Physiology*. Philadelphia: W.B. Saunders Co.

Randall, D., Burggren, W. and French, K. (2015). *Eckert Animal Physiology*. (6th ed.). New York: W.H. Freeman and Company.

Sherwood, L. (2016). *Human Physiology – From Cells to Systems*. (9th ed.). USA: Wadsworth Publishing Company.

Sherwood, L., Klandorf, H. and Yancey, P. (2011). *Textbook of Animal Physiology*. New Delhi: Cengage Learning India Pvt. Ltd. New Delhi.

Sobti, R.C. (2008). *Animal Physiology*, New Delhi: Narosa Publishing House.

JOURNALS

Indian Journal of animal Physiology

Extreme Physiology and Medicine

WEB RESOURCES

www.physiology.com

NPTEL course on Animal Physiology

https://onlinecourses.nptel.ac.in/noc20_bt42/preview

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	5 x 2 = 10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	5 x 2 = 10	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	1 x 10 = 10	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	1 x 15 = 15	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Quiz / Assignment / Poster presentation / Video presentation/ Scrap book / Illustration assignment / Model making

Two or three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 =20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	10 x 2 =20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 =20	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 =30	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 =10	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: ANIMAL PHYSIOLOGY												
	Course Title: 23ZL/MC/AP34												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	3	2	3	2	1	1	3	2	3	2	1
CO 2	2	3	3	2	3	2	1	1	3	2	3	2	1
CO 3	2	3	3	2	3	2	1	1	3	2	3	2	1
CO 4	2	3	3	2	3	2	1	1	3	2	3	2	1
CO 5	2	3	3	2	3	2	1	1	3	2	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

EVOLUTION

CODE:23ZL/MC/EV33

CREDITS :3

L T P:3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable students to

- understand the evolutionary process which includes a general account of the origin of life, theories and evidence
- comprehend the principles of stratigraphy, the Geological Time Scale, fossil formation and extinction
- understand the genetic basis of evolution, types of selection, speciation and isolation
- comprehend evolutionary patterns, strategies and animal distribution
- understand equine and human evolutionary stages, molecular evolution, phylogenetic trees and modern evolutionary concepts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic and modern concepts, components, theories, evidence, mechanisms, processes, patterns, strategies and molecular aspects of evolution	K1
CO2	explain evolutionary concepts, theories, evidence, the history of life on earth, evolutionary processes, patterns, strategies and molecular aspects of evolution	K2
CO3	apply the acquired knowledge of evolutionary concepts, theories and evidence to discuss evolutionary components, mechanisms, processes, patterns, strategies and recent trends in evolution	K3
CO4	analyse evolutionary principles, theories, evidence, mechanisms, processes, patterns, strategies, phylogenetic trees and recent trends in evolution	K4
CO5	Evaluate evolutionary theories, evidence, processes, mechanisms, patterns, strategies, phylogenetic trees and recent trends in evolution	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction - Origin of Life - Theories: Special Creation, Catastrophism, Panspermia, Abiogenesis, Biogenesis, Modern Hypothesis 1.2 Evidence in support of evolution from the fields of comparative morphology and anatomy, physiology, biochemistry and embryology 1.3 Theories of evolution: Lamarckism, Neo-Lamarckism, Darwinism, Neo-Darwinism or Modern Synthetic Theory of Evolution, Mutation theory of de Vries	K1 - K5	11	1 - 5
2	2.1 Geological Time Scale 2.2. Palaeontology: Fossilisation, dating of fossils, Indian fossils - living fossils 2.3 Extinction: six major extinction events and role of extinction in evolution	K1 - K5	10	1 - 5
3	3.1 The genetic basis of evolution: Variation, Mutation, Genetic Drift, Founder Effect and Migration 3.2 Types of Natural selection: stabilising selection, directional selection and disruptive selection (examples and case studies) 3.3 Species concept: Speciation (Allopatric and Sympatric)- Subspecies - Sibling Species - Isolation in Speciation	K1 - K5	10	1 - 5
4	4.1 Convergent and divergent evolution - Adaptive radiation in birds and mammals 4.2 Mimicry and Colouration (types, examples and significance) – Coevolution (types, examples and significance) 4.3 Micro, macro and megaevolution (causes, examples and significance) 4.4 Distribution of Animals: Types, Zoogeography, Barriers and Methods of Dispersal of Animals in the marine, freshwater and terrestrial environments	K1 - K5	10	1 - 5
5	5.1 Evolution of Horse: stages and significance 5.2 Human Evolution: Stages (<i>Ardipithecus</i> group, <i>Australopithecus</i> group, <i>Paranthropus</i> group and <i>Homo</i> group), Biological and Cultural History 5.3 Molecular Evolution: Molecular Clocks – Phylogenetic trees - Systematics: Phenetics and Cladistics 5.4 Modern Evolutionary Concepts: Evolutionary Medicine - Evolution and Conservation	K1 - K5	11	1 - 5

BOOKS FOR STUDY

Gopalakrishnan, T.S., Sambasiviah, I. & Rao, A.P.K. (2000). Principles of Organic Evolution. Himalaya
Rastogi, V. B. (2023). Evolutionary Biology (Organic Evolution). Meerut: Kedar Nath Ram Nath.

BOOKS FOR REFERENCE

Bromhan, L. (2016). An Introduction to Molecular Evolution and Phylogenetics. UK: Oxford University Press.
Colbert, E.H. (2001). Evolution of the Vertebrates. New Delhi: Wiley Eastern. Darwin, C. (1909). The Origin of Species. London: John Murray.
Dodson, E.O. (1985). Evolution Process and Product. New York: Reinhold. Foley, R. A. & Lewin, R. (2013). Principles of Human Evolution. Massachusetts: John Wiley & Sons.
Futuyma, D. J. & Kirkpatrick, M. (2017). Evolution. U.S.A: Sinauer.
Hall B. K., Hallgrimsson, B & Strickberger, M. W. (2014). Strickberger's Evolution. MA: Jones and Bartlett, 2014.
Moody, P.A. (1978). Introduction to Evolution. New York: Harper.
Gluckman, P., Beedle, A., Buklijas, T., Low, F. & Hanson, M. (2016). Principles of Evolutionary Medicine. United Kingdom: OUP Oxford.
Shapiro, J. A., (2011). Evolution: A View from the 21st Century. London: Pearson Education.
Tomar, B. S. & Singh, S. P. (2017). Evolutionary Biology. Meerut: Rastogi.

JOURNALS

Journal of Evolutionary Biology
Evolution (International Journal of Organic Evolution)
Journal of Systematics and Evolution

WEB RESOURCES

<https://interactive-learning-objects.onlea.org/geologic-timescale/#/time-scale>
<https://evolution.berkeley.edu/>
<https://humanorigins.si.edu/>
SWAYAM NPTEL Course: The Evolution of the earth and life by Prof. Devapriya Chattopadhyay, IISER, Pune
https://onlinecourses.nptel.ac.in/noc23_ce54/preview

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the contribution of, Define, List, Give an example of, Match the following, etc.)	K1 (10 marks)	5 x 2 =10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Short answers, Relate, Identify, Comment on, etc.)	K2 (10 marks)	5 x 2 =10	5 K2 questions	5 K2 questions
C (Answer any one question) Essay	K3 (10 marks)	1 x 10 =10	1 K3 question	2 K3 questions
D (Answer any one question) Essay	K4 (15 marks)	1 x 15 =15	1 K4 question	2 K4 questions
E (Answer any one question) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Term Paper/ Scrap-book/ Poster Presentation/ Model-making/ Quiz / Assignment

Two to three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the contribution of, Define, List, Give an example of, Match the following, etc.)	K1 (20 marks)	10 x 2 = 20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Short answers, Relate, Identify, Comment on, etc.)	K2 (20 marks)	10 x 2 = 20	10 K2 questions	10 K2 questions
C (Answer any two questions) Essay	K3 (20 marks)	2 x 10 = 20	2 K3 questions	3 K3 questions
D (Answer any two questions) Essay	K4 (30 marks)	2 x 15 = 30	2 K4 questions	3 K4 questions
E (Answer any two questions) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: EVOLUTION												
	Course Title: 23ZL/MC/EV33												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	1	1	3	2	2	2	1
CO 2	3	3	3	2	3	3	1	1	3	2	2	2	1
CO 3	3	3	3	2	3	3	1	1	3	2	3	3	1
CO 4	3	3	3	2	3	3	1	1	3	3	3	3	2
CO 5	3	3	3	2	3	3	1	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

ANIMAL PHYSIOLOGY AND EVOLUTION PRACTICAL

CODE:23ZL/MC/P332

CREDITS:2

LTP:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

To enable students to

- comprehend the basic principle and procedure, and develop the necessary skills to determine oxygen consumption of fish and nitrogenous waste products of fishes, birds and mammals
- understand cardiovascular physiology of frog and physiology of protein, carbohydrate and fat digestion using simulation software (PhysioEx.10.0), determination of blood pressure and pulse, and interpretation of phylogenetic trees
- comprehend the basic principle and procedure of salt loss and salt gain in fish, amylase activity in relation to temperature (with the calculation of Q_{10}) and pH
- observe and identify the modes of fossilisation, living fossils, evolutionary strategies, stages in human evolution and comprehend the working and application of the flame photometer
- write a report on the evolutionary strategies observed on campus and maintain an observation notebook and a record notebook

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	submit a record of the practical work carried out in the laboratory and a report on the different types of evolutionary strategies observed on campus	K1
CO2	describe modes of fossilisation, living fossils, examples on coevolution, mimicry and other evolutionary strategies, stages in human evolution, working and significance of the flame photometer, various organ systems in humans (not for evaluation)	K2
CO3	apply the knowledge gained to calculate salt loss and salt gain by a fish, amylase activity in relation to temperature, Q_{10} and amylase activity in relation to pH	K3
CO4	measure blood pressure and pulse and interpret the results, answer questions relating to physiological experiments on digestive and cardiovascular systems (simulatory software PhysioEx 10.0) and interpret the given phylogenetic tree	K4
CO5	evaluate oxygen consumed by the given aquatic animal with reference to body weight and the type of nitrogenous waste in different samples	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	i) Oxygen consumption in an aquatic animal with reference to body weight. 2. ii) Detection of nitrogenous waste products, qualitative estimation of Ammonia, (fish) Uric acid (bird excreta) and Urea (mammalian kidney)	K5	12	CO 5
2	i) Study of frog cardiovascular physiology using Physio Ex 10.0. ii) Assessing digestion of proteins, carbohydrates and fats using Physio Ex 10.0 iii) Measurement of BP and Pulse and interpretation iv) Analyse and interpret the given phylogenetic tree	K4	6	CO 4
3	i) Determination and analysis of salt loss and salt gain in fish ii) Determination of amylase activity in relation to temperature and calculation of Q_{10} (temperature coefficient) iii) Determination of amylase activity in relation to pH	K3	9	CO 3
4	Observation and identification of the following: i) Different modes of fossilisation ii) Living fossils iii) Coevolution (Plant-pollinator and Predator-prey) iv) Mimicry (Batesian and Mullerian) and Colouration (Protective and Aggressive) v) Evolutionary strategies (Mimicry, Colouration and Coevolution) on SMC campus vi) Stages in human evolution (<i>Sahelanthropus tchadensis</i> , <i>Australopithecus afarensis</i> , <i>Homo erectus</i> , <i>Homo neanderthalensis</i> and <i>Homo sapiens</i>) vii) Study of various organ systems in a fibreglass human model (not for evaluation) Demonstration: Estimation of Na and K content in food samples by Flame Photometry	K2	9	CO 2
5	i) Maintenance of observation notebook and record ii) Observation and documentation of evolutionary strategies (mimicry, colouration and coevolution) on SMC campus and compilation of report	K1	3	CO 1

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (20 marks)	1 X 20=20	1 question	1 question
B (Unit 2)	K4 (6 marks)	2 x 3 = 6	2 questions	2 questions
C (Unit 3)	K3 (13 marks)	1 X 7 =7	1 question	1 question
D (Unit 4)	K2 (6 marks)	4 x 3 = 12	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Report & Observation notebook	Report & Observation notebook
Total		50	7	7

End Semester Examination: Total Marks: 50 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (20 marks)	1 X 20 =20	1 question	1 question
B (Unit 2)	K4 (6 marks)	2 X 3 =6	2 questions	2 questions
C (Unit 3)	K3 (7 marks)	1 X 7 = 7	1 question	1 question
D (Unit 4)	K2 (12 marks)	4 X 3 = 12	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Record Notebook	Record Notebook
Total		50	7	7

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/P332												
	Course Title: ANIMAL PHYSIOLOGY AND EVOLUTION PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	2	1	1	3	1	3	2	3	3	2
CO 2	3	3	3	2	2	1	2	1	3	2	3	2	1
CO 3	2	3	3	2	2	2	-	1	3	3	3	2	1
CO 4	3	3	3	2	2	3	1	1	3	3	3	2	2
CO 5	3	3	3	2	1	1	-	1	3	3	3	2	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

Allied Core offered by the Department of Chemistry to B.Sc. Plant Biology & Plant Biotechnology and B.Sc. Advanced Zoology & Biotechnology Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF BIOCHEMISTRY I

CODE: 23CH/AC/FB33

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To facilitate understanding of fundamental biochemical principles involving biological mechanisms
- To explain the significance of clinical haematological tests and enzymes in biochemical processes
- To enable understanding of carbohydrate metabolism
- To introduce the principles and methodologies involved in the digestion and absorption of carbohydrates

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the fundamentals of biochemistry, biomolecules and bioenergetics	K1
CO2	Relate blood buffers with the pH of blood, digestion and absorption of carbohydrates with carbohydrate metabolism	K2
CO3	Analyse the metabolism of glucose, hormone action and mechanism of enzyme action	K3
CO4	Evaluate free energy, enthalpy and entropy in a biochemical process, spontaneity of a biochemical reaction, glucose levels in blood through haematological tests and pH of blood	K4
CO5	Summarise the steps involved in different stages of carbohydrate metabolism, mechanism of enzyme action and coagulation of blood	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Introduction to Biochemistry 1.1 Molecular Logic of Living Organisms 1.2 Water – Physical Properties and Hydrogen Bonding of Water-Solvent Properties of Water, Hydrophobic Interactions, the Ionic Product of Water, the pH Scale. Acid Base Indicators- Phenolphthalein and Methyl Orange 1.3 Maintenance of pH of Blood, Bicarbonate Buffers, Acidosis and Alkalosis, Buffers and electrolytes in the body	K1- K5	10	1-5
2.	Blood 2.1 Blood - Composition of Blood, Blood Coagulation – Mechanism. Haemophilia and Sickle Cell Anaemia 2.2 Clinical significance of RBC, WBC and Platelet Count in blood	K1- K5	5	1-5
3.	Bioenergetics 3.1 Enthalpy, Entropy, Free Energy, Standard Free Energy, spontaneous and non-spontaneous. Exergonic and Endergonic Reactions 3.2 High Energy Compounds ATP and ADP, Structural Basis for the Role of ATP as the currency of the cell	K1- K5	4	1-5
4.	Carbohydrates 4.1 Classification of Carbohydrates 4.2 Haworth's Structure and Reactions of Glucose, Fructose and Sucrose. Polysaccharides – Homopolysaccharides -Cellulose, Starch - Amylose and Amylopectin (Structural Elucidation not required) 4.3 Digestion of di and polysaccharides in the body, maintenance of glucose level in Blood-significance of HbA1c 4.4 Carbohydrate Metabolism - Metabolism of Glucose - Glycolysis, TCA Cycle (structures not required), Glycogenesis, Glycogenolysis, Gluconeogenesis. Oxidative phosphorylation and electron transport chain	K1- K5	15	1-5

5.	Enzymes 5.1 Definition of Enzymes, Coenzymes and Apoenzymes 5.2 Nomenclature and Classification of Enzymes 5.3 Enzyme Specificity - Factors affecting Enzyme Action 5.4 Mechanism of Enzyme Action - Michaelis- Menten Theory (No Derivation) – Fischer’s lock and key model and Koshland’s induced fit model	K1- K4	5	1-4
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BOOKS FOR STUDY

Berry, A. K. *Textbook of Biochemistry*. New Delhi: Emkay, 2001.

Doraiswamy Y, Swaminathan G. and Nagamani, B. *Allied Biochemistry*. Chennai: Margham, 2015.

Sharma D. K. *Biochemistry*. Oxford: Alpha Science, 2010.

Satyanarayana U. *Biochemistry*, 2nd Ed. Kolkata: Books and Allied, 2005.

BOOKS FOR REFERENCE

Lehninger A. L. *Principles of Biochemistry*. New Delhi: CBS, 2006.

Stryer L, *Biochemistry*. New York: W.H. Freeman, 2007.

WEB RESOURCES

<http://www.hsph.harvard.edu/nutritionsource/what-should-you-eat/protein/>

<http://e.hormone.tulane.edu/learning/types-of-hormones.html>

<https://oli.cmu.edu/courses/biochemistry-open-free/>

<https://www.futurelearn.com/courses/biochemistry>

<https://pubs.acs.org/journal/jceda8>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none"> • Four questions to be set • Three questions to be answered out of four. • Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none"> • Three questions to be set • Two questions to be answered out of three • Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none"> • One question to be set with either/or pattern • Questions can be set with or without subdivisions

Other Component:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FB33												
III	Course Title: FUNDAMENTALS OF BIOCHEMISTRY - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

**Allied Core offered by the Department of Chemistry for
B.Sc. Physics Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

BIOCHEMISTRY PRACTICAL I

CODE: 23CH/AC/P132

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To enable understanding of the principles of biochemistry through laboratory techniques
- To impart the skills required to perform various chemical reactions in a laboratory
- To instill understanding of the classification of biomolecules based on their structure and property
- To introduce the principles behind the techniques involved

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the procedure for the analysis of carbohydrates, amino acids and proteins.	K1, K2
CO2	identify various carbohydrates, amino acids and proteins based on their structure and property	K3
CO3	distinguish various carbohydrates, amino acids and proteins based on the structural characteristics	K4
CO4	perform chemical reactions in a laboratory according to standard procedure and safety precautions	K5
CO5	analyse a given organic compound qualitatively and identify carbohydrates, amino acids and proteins	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Qualitative Analysis of Carbohydrates 1.1 Reactions of Carbohydrates Glucose, Fructose, Maltose, Sucrose and Starch 1.2 Identification of Unknown Organic Compound	K1-K6	13	1-5
2.	Qualitative Analysis of Amino acids 2.1 Reactions of Amino Acids - Reactions of Tryptophan, Tyrosine, Arginine and Cysteine 2.2 Identification of Unknown Organic Compound	K1-K6	13	1-5
3.	Qualitative Analysis of Proteins 3.1 Reactions of Proteins - Reactions of Casein and Egg Albumin 3.2 Identification of Unknown Organic Compound	K1-K6	13	1-5

BOOKS FOR STUDY

Swaminathan G. and George M. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

Analysis	-	50 marks
Preliminary reaction	-	15 marks
Confirmatory tests with all colour tests	-	30 marks
Final report	-	05 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Analysis	-	50 marks
Preliminary reaction	-	15 marks
Confirmatory tests with all colour tests	-	30 marks
Final report	-	05 marks

Sections	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K4	10	Subjective
Experiment	K5-K6	40	Subjective

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CH/AC/P132												
III	Course Title: BIOCHEMISTRY PRACTICAL - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	2	1	3	2	2	2	2
CO 2	3	3	2	1	2	2	2	1	3	3	2	2	3
CO 3	3	3	2	1	2	2	3	2	3	3	3	2	2
CO 4	3	3	2	1	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	1	3	3	2	1	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023-2024)

MICROBIOLOGY

CODE: 23ZL/MC/MB44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable students to

- have an overview of microbial classification and microbiological techniques
- comprehend the morphology, growth and reproduction of bacteria and viruses.
- understand the conditions required for growth, recombination in bacteria and microbial control.
- acquire knowledge on normal microbiota, microbial diseases and their control
- understand the role of microbes in dairy products, material damage and soil ecosystem

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall characteristics, classification, microbiological techniques, organisation and multiplication of bacteria and viruses, conditions and nutrients required for microbial growth, methods of microbial control and recombination, normal microbiota, microbial diseases and their control, and the role of microbes in dairy products, material damage and soil ecosystem.	K1
CO 2	describe characteristics, classification, microbiological techniques, organisation and multiplication of bacteria and viruses, conditions and nutrients required for microbial growth, methods of microbial control and recombination, normal microbiota, microbial diseases and their control, and the role of microbes in dairy products, material damage and soil ecosystem.	K2
CO 3	explain characteristics, classification, microbiological techniques, organisation and multiplication of bacteria and viruses, conditions and nutrients required for microbial growth, methods of microbial control and recombination, normal microbiota, microbial diseases and their control, and the role of microbes in dairy products, material damage and soil ecosystem.	K3

COs	DESCRIPTION	CL
CO 4	analyse the characteristics, classification, microbiological techniques, organisation and multiplication of bacteria and viruses, conditions and nutrients required for microbial growth, methods of microbial control and recombination, normal microbiota, microbial diseases and their control, and the role of microbes in dairy products, material damage and soil ecosystem.	K4
CO 5	evaluate characteristics, classification, microbiological techniques, organisation and multiplication of bacteria and viruses, conditions and nutrients required for microbial growth, methods of microbial control and recombination, normal microbiota, microbial diseases and their control, and the role of microbes in dairy products, material damage and soil ecosystem.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction - History and Scope of Microbiology 1.2 Outline Classification of Microorganisms with Special Reference to Bacteria and Viruses - Characteristic Features of Prokaryotes, Eukaryotes and Archaea 1.3 Microbiological Techniques: Microscopy, Specimen Preparation and Staining Techniques - Media Preparation and Types of Culture Media – Preservation of Culture – Pure Culture Techniques	K1 - K5	12	1 - 5
2	2.1 Viruses: General Properties – Isolation and Cultivation of Viruses - Structure and Reproduction of T4 Phage (Lytic and Lysogenic cycles) 2.2 Structure and Multiplication of an Animal Virus – COVID-19: Pathogenesis, mode of transmission and control measures - Subviral Particles (Viroids and Prions) 2.3 Bacteria: Gross Morphology of Bacterial Cells - Size, Shape and Arrangement- Structure of a Bacterium: Cell Wall, flagellum – flagellar arrangement - Chemical Composition and Characteristics of Gram Positive and Gram Negative Bacteria – Molecular Structure of Nucleoid –Types and Functions of Plasmids - Cytoplasmic inclusions. 2.4 Bacterial Growth: Reproduction and Growth of Bacterial Population - Growth Curve – Measurement of Microbial Growth	K1 - K5	15	1 - 5

UNIT	CONTENT	CL	HRS	CO
3	3.1 Physical Conditions Required for Growth of Bacteria: Temperature, Oxygen and pH - Nutritional Requirements and General Nutritional Classification of Bacteria 3.2 Recombination in Bacteria: Transformation, Conjugation and Transduction 3.3 Microbial Control: Importance and Control of Microorganisms by Physical and Chemical Agents – Antibiotics and Their Mechanisms of Action	K1 - K5	13	1 - 5
4	4.1 The Normal Microbiota of the Human Body: Skin, Mouth and Oropharynx, Stomach, Small Intestine, Large Intestine, Vagina and Urethra (Brief Study) - Significance 4.2 Disease Cycle of a Communicable Disease – Disease Progression 4.3 Causative agents, epidemiology, symptoms, pathogenicity and control measures of the following Infectious Diseases: Airborne (Influenza and Pneumonia)- Food and Water Borne (Hepatitis A and Typhoid) — Infection Through Body Fluids (Hepatitis B and Ebola) - Sexually Transmitted Diseases (Genital Herpes and Gonorrhoea) - Zoonotic (Dengue Fever and Leptospirosis) - Nosocomial and Fomite Borne infections	K1 - K5	13	1 - 5
5	5.1 Microbiology of Food: Sources and Types of Microorganisms In Milk - Pasteurization of Milk (Types, Significance and Test) - Dairy Products: Types, process and uses of Cheese - Probiotics (Sources and Significance) - Indicator Organisms - Food Poisoning - Food Preservation 5.2 Microbial Damage of Materials: Natural Fabrics, Paper and Cosmetics 5.3 Microbial Ecology: Definition and Significance - Role of Microorganisms in Soil Fertility, Nitrogen Cycle and Sulphur Cycle	K1 - K5	12	1 - 5

BOOK(S) FOR STUDY

Dubey, R.C. & Maheshwari, D.K. (2015). *A Text Book of Microbiology*. New Delhi: S.Chand.
Kanungo, Reba (Ed.). (2022). *Anantanarayan and Paniker's textbook of Microbiology*. Universities Press.

BOOKS FOR REFERENCE

Bergquist L.M., & Barbara, P. (2002). *Microbiology – Principles and Health Science Applications*. Philadelphia:W.B. Saunders Company.
Baumam, R.W. (2017). *Microbiology with Diseases by body system*. London: Pearson.
Cornellisen, C. N. & Hobbs, M. M. (Ed.). (2019). *Lippincott Illustrated Reviews: Microbiology*. Netherlands : Wolters Kluwer.
Michael, M. T. & Bender, K. S. (2018). *Brock Biology of Microorganisms*. U.S.A: Pearson Publication.
Nester, E. W., Anderson, D. G., Evans, R. C. & Nester, M. T. (2005). *Microbiology – A Human Perspective*. New York: Mc Graw Hill.
Pelczar, M. J., Chan, E.C.S. & Krieg, N. R. (2001). *Microbiology*. New York city: McGraw Hill.
Pommervillie, J. C.(2004). *Alcamo's Fundamentals of Microbiology*. U.S.A: Jones and Bartlett.
Prescott, L.M., Harley, J. P. & Klein, D. A. (2005). *Microbiology*. New York: McGraw Hill.
Tortora, G. J., Funk, B. R. & Case, C. L. (2018). *Microbiology – An Introduction*. San Francisco: Pearson - Benjamin Cummings.

WEB RESOURCES

NPTEL Course on Microbiology
<https://archive.nptel.ac.in/courses/102/103/102103015/>
<http://archives.microbeworld.org/microbes/>
<http://www.bioedonline.org/>

JOURNALS

International Journal of Microbiology
Journal of Applied Microbiology

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (10 marks)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	$5 \times 2 = 10$	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	$1 \times 10 = 10$	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	$1 \times 15 = 15$	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	$1 \times 5 = 5$	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Quiz / Assignment / Video Assignment / Poster presentation / Case Study / Mini Project

Two to three components will be prescribed

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	$10 \times 2 = 20$	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	$10 \times 2 = 20$	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	$2 \times 10 = 20$	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	$2 \times 15 = 30$	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	$2 \times 5 = 10$	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/MB44												
	Course Title: MICROBIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	1	3	3	3	3	2
CO 2	3	3	3	2	3	2	2	1	3	3	3	3	2
CO 3	3	3	3	2	3	2	2	1	3	3	3	3	2
CO 4	3	3	3	2	3	2	2	1	3	3	3	3	2
CO 5	3	3	3	2	3	2	2	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023–2024)

MICROBIOLOGY PRACTICAL

CODE: 23ZL/MC/P442

CREDITS: 2

L T P: 0 0 3

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

To enable students to

- comprehend the principle and procedure underlying Gram Staining and identify bacteria based on the morphology and gram reaction
- comprehend the role of microbes in spoilage of food, the procedure and significance of Kirby Bauer Diffusion method and Winogradsky column
- develop the skill to determine the quality of milk, identify bacteria using dichotomous key and describe the principle and procedure underlying Membrane filter technique and interpret the result
- prepare the media, identify and comment on various microbes and instruments and equipment used for isolation and culture of microorganisms
- collect and classify antibiotics based on their biological origin and mode of action and maintain an observation and record book

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	submit a record of practical work carried out in the laboratory and a collection of antibiotics, classified according to their biological origin and mode of action	K1
CO2	illustrate and describe the various microbes and instruments, equipments and culture media used for isolation and culture of microorganisms	K2
CO3	demonstrate the skill to determine the quality of milk, identify bacteria using dichotomous key and describe the principle and procedure underlying Membrane filter technique and interpret the results	K3
CO4	analyse the type of spoilage in food, the efficiency of various antibiotics based on Kirby Bauer Diffusion method and bacterial diversity in Winogradsky column	K4
CO5	prepare a bacterial smear, perform gram staining and identify bacteria based on their morphology and gram reaction	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Gram Staining and Examination of Bacteria	K5	6	CO 5
2	i. Spoilage of Food Items viz., Milk - Bread - Fruits and Vegetables ii. Antibiotic Sensitivity Test - Kirby Bauer Diffusion Method iii. Winogradsky Column – Observation of Bacterial Diversity	K4	9	CO 4
3	i. Coliform Count in Drinking Water Samples by Membrane Filter Technique ii. Examination of Milk - Methylene Blue Reduction Test iii. Identification of Bacteria based on morphology, physical requirements and staining reaction using a dichotomous key	K3	10	CO 3
4	i. Preparation of Nutrient Agar, MacConkey Agar – Agar Slant ii. Isolation of Bacteria by Pure Culture - Streak Plate iii. Examination of Soil Bacteria using Pour Plate Method iv. Identification of Microbes – Prepared Specimens v. Instruments Used in Microbiology Laboratory – Incubator, Hot Air Oven, Autoclave, Laminar Air Flow, Colony Counter vi. Observation of Bacterial Motility – Hanging Drop Preparation (Demonstration)	K3 K2	6	CO 3 CO2
5	i. Collection and Classification of Antibiotics Based on their Biological Origin, Mode of Action and their Applications - Report ii. Maintenance of an observation and record book of practical work is an integral part of the syllabus.	K1	8	CO 1

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (20 marks)	$1 \times 20 = 20$	1 question	1 question
B (Unit 2)	K4 (6 marks)	$2 \times 3 = 6$	2 questions	2 questions
C (Unit 3)	K3 (10 marks)	$1 \times 10 = 10$	1 question	1 question
D (Unit 4)	K2 (9 marks)	$3 \times 3 = 9$	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Report & Observation notebook	Report & Observation notebook
Total		50	7	7

End Semester Examination:**Total Marks: 50****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (20 marks)	$1 \times 20 = 20$	1 question	1 question
B (Unit 2)	K4 (6 marks)	$2 \times 3 = 6$	2 questions	2 questions
C (Unit 3)	K3 (10 marks)	$1 \times 10 = 10$	1 question	1 question
D (Unit 4)	K2 (9 marks)	$3 \times 3 = 9$	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Record Notebook	Record Notebook
Total		50	7	7

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/P442												
	Course Title: MICROBIOLOGY PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	3	2	1	3	2	3	2	2
CO 2	3	3	3	2	3	3	2	1	3	3	3	3	2
CO 3	3	3	3	2	3	3	2	1	3	3	3	3	2
CO 4	3	3	3	2	3	3	2	1	3	3	3	3	2
CO 5	3	3	3	2	3	3	2	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

Allied Core Offered by the Department of Chemistry for B.Sc. Plant Biology and Plant Biotechnology and B.Sc. Advanced Zoology and Biotechnology Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF BIOCHEMISTRY II

CODE: 23CH/AC/FB43

CREDITS: 3

L T P: 3 0 0

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To provide an understanding of the biochemical importance of lipids, proteins, hormones and micronutrients
- To enable understanding of lipid and protein metabolisms
- To introduce the principles and methodologies involved in digestion and absorption of lipids and proteins

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the classification, structure and metabolism of lipids, proteins hormones and vitamins	K1
CO2	explain the use of biochemical techniques in the study of proteins, lipids, hormones, vitamins and micronutrients	K2
CO3	analyze the metabolisms involving lipids, proteins, hormones, vitamins and minerals	K3
CO4	evaluate mechanism of metabolism of protein, lipid and hormones using biochemical tools	K4
CO5	integrate the cause of a disease in human body and the metabolism	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Lipids 1.1 Classification of Lipids and Fats 1.2 Definitions and Significance of Iodine Value, Acid Value, Saponification Value, RM Value and Acetyl Value 1.3 Lipid Metabolism- Oxidation of β fatty acids, Biosynthesis of Fatty Acids, Ketone bodies and Ketosis. Digestion and Absorption of Lipids 1.4 Risk factor of HDL, LDL and total cholesterol in the body	K1- K5	12	1-5

2.	Proteins 2.1 Amino Acids – Classification based on R Groups 2.2 Chemical Reactions of amino acids - with ninhydrin, mineral acid, formaldehyde, FDNB and CO ₂ 2.3 Structure of Proteins - Peptide Bond, Primary, Secondary and Tertiary structures. 2.4 Classification of proteins based on shape, composition and solubility. Properties of proteins - denaturation, amphoteric nature, ion binding capacity and solubility 2.5 Protein Metabolism - transamination, oxidative deamination and Urea Cycle. Digestion and absorption of proteins	K1- K5	12	1-5
3.	Hormones 3.1 Definition, Classification of Hormones (Steroid and Non-Steroid Only) 3.2 Mechanism of Hormone Action 3.3 Functions of Insulin and Thyroxin. Clinical significance of TSH, T3 and T4	K1- K5	5	1-5
4.	Biochemistry and Nutrition 4.1 Vitamins (fat & water soluble)- sources, metabolic functions, deficiency diseases, daily requirements- vitamin A and vitamin C (Structure) 4.2 Principal elements- Calcium, Phosphorus, Magnesium, Sodium, Potassium, Chlorine, Sulfur- sources, function, recommended dietary allowance, deficiency - Calcium, Phosphorus- absorption and retention, product of Ca and P in serum. 4.3 Trace elements: Chromium, Selenium, Cobalt- sources, function, deficiencies	K1- K5	5	1-5
5.	Analytical techniques in Biochemistry 5.1 Centrifugation – Principle and applications of sedimentation and ultracentrifugation 5.2 Electrophoresis – Principle and applications of SDS-PAGE 5.3 Ultrafiltration – Principle and applications of Dialysis 5.4 Chromatography – Principle and applications of Thin layer (TLC) and High-Performance Liquid Chromatography (HPLC)	K1- K5	5	1-5

BOOKS FOR STUDY

Berry, A. K. *Textbook of Biochemistry*. New Delhi: Emkay, 2001.

Doraiswamy Y, Swaminathan G. and Nagamani, B. *Allied Biochemistry*. Chennai: Margham, 2015.

Sharma D. K. *Biochemistry*. Oxford: Alpha Science, 2010.

Satyanarayana U. *Biochemistry*, 2nd Ed. Kolkata: Books and Allied, 2005.

BOOKS FOR REFERENCE

Lehninger A. L. *Principles of Biochemistry*. New Delhi: CBS, 2006.

Stryer L, *Biochemistry*. New York: W.H. Freeman, 2007.

WEB RESOURCES

<http://www.hsph.harvard.edu/nutritionsource/what-should-you-eat/protein/>

<http://e.hormone.tulane.edu/learning/types-of-hormones.html>

<https://oli.cmu.edu/courses/biochemistry-open-free/>

<https://www.futurelearn.com/courses/biochemistry>

<https://edu.rsc.org/eic>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	8	$8 \times 1 = 8$ (8 MCQs)
B	K2	7	$7 \times 1 = 7$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	15	$3 \times 5 = 15$ marks <ul style="list-style-type: none">• Four questions to be set• Three questions to be answered out of four.• Questions can be set with or without subdivisions
D	K4/K4	10	$2 \times 5 = 10$ marks <ul style="list-style-type: none">• Three questions to be set• Two questions to be answered out of three• Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	10	$1 \times 10 = 10$ marks <ul style="list-style-type: none">• One question to be set with either/or pattern• Questions can be set with or without subdivisions

Other Component:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	15	$15 \times 1 = 15$ (15 MCQs)
B	K2	15	$15 \times 1 = 15$ (Answer in a line or two or Fill in the blanks or Match the following)
C	K3/K3	30	$6 \times 5 = 30$ marks <ul style="list-style-type: none"> Seven questions to be set Six questions to be answered out of seven. Questions can be set with or without subdivisions
D	K4/K4	20	$4 \times 5 = 20$ marks <ul style="list-style-type: none"> Five questions to be set Four questions to be answered out of five Questions can be set with or without subdivisions
E (Internal Choice)	K5/K5	20	$2 \times 10 = 20$ marks <ul style="list-style-type: none"> Two questions to be set with either/or pattern Questions can be set with or without subdivisions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/FB43												
IV	Course Title: FUNDAMENTALS OF BIOCHEMISTRY -II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

Allied Core offered by the Department of Chemistry for B.Sc. Plant Biology & Plant Biotechnology and B.Sc. Advanced Zoology & Biotechnology Degree Programmes

SYLLABUS

(Effective from the academic year 2023–2024)

BIOCHEMISTRY PRACTICAL II

CODE: 23CH/AC/P242

CREDITS: 2

L T P: 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To understand the principles of biochemistry chemistry through laboratory techniques
- To impart the skills required to perform various chemical reactions in a laboratory
- To instill understanding of the classification of organic compounds based on their structure and property
- To understanding of the principles behind the various techniques involved

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recollect the concepts of normality, equivalent weight, R_f value and Beer Lambert's Law	K1
CO2	differentiate between titrations, colorimetric and chromatographic techniques	K2
CO3	calculate the normality, equivalent weights and R_f value	K3
CO4	compare the reagents used in volumetric titration, colorimetric and chromatographic techniques	K4
CO5	estimate the amount of a given substance using volumetric analysis	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 Create		

UNIT	CONTENT	CL	Hrs	CO
1.	Volumetric Estimations 1.1 Principle and theory of Volumetric Analysis 1.2 Principle and theory of Chromatography and Beer-Lambert's law	K1-K3	3	1-3
2.	Estimations 2.1 Estimation of Oxalic Acid / Fe^{2+} (Permanganimetry) 2.2 Estimation of Glucose 2.3 Estimation of Glycine by Sorensen's Titration 2.4 Estimation of Ascorbic Acid 2.5 Estimation of Acid Value / Saponification Value / Iodine Value of Edible Oil 2.6 Estimation of Enzyme Catalase in Chow chow / Radish	K1-K6	30	1-5

UNIT	CONTENT	CL	Hrs	CO
3.	Group Experiments 3.1 Estimation of Phosphorus by Colorimetry 3.2 Estimation of DNA/RNA by Colorimetry 3.3 Separation of Amino Acids by Paper Chromatography	K1-K4	6	1-4

BOOKS FOR REFERENCE

Sathian J. *Volumetric Estimations* Lab Manual. 2010.

Mendham J., Denney R. C., Barnes J. D., Thomas M. and Sivasankar B. *Vogel's Textbook of Quantitative Chemical Analysis*. New Delhi: Pearson Education, 2009.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 3 Hours

Equations and Short Procedure	-	10 marks
Experiment	-	40 marks
Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5.0% error	-	20 marks
Above 5%	-	15 marks

End-Semester Examination:

Total Marks: 50

Duration: 3 hours

Equations and Short Procedure	-	10 marks
Experiment	-	40 marks
Up to 2% error	-	40 marks
2.1 – 3.0% error	-	35 marks
3.1 – 4.0% error	-	25 marks
4.1 – 5.0% error	-	20 marks
Above 5%	-	15 marks

Section	Cognitive Level	Marks	Pattern
Equations and Short Procedure	K1-K3	10	Subjective
Experiment	K4-K6	40	Subjective

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CH/AC/P242												
IV	Course Title: BIOCHEMISTRY PRACTICAL II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	2	1	3	2	3	2	2
CO 2	3	3	2	2	2	2	2	1	3	3	3	2	2
CO 3	3	3	2	2	2	2	3	2	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	1	3	3	3	2	3
CO 5	3	3	2	2	3	3	2	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course offered for
B.A. / B.Sc. / B.Com. /B.V.A. Degree Programmes**

SYLLABUS
(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23ZL/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group discussions
- Group presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

CELL AND MOLECULAR BIOLOGY

CODE:23ZL/MC/CM54

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

To enable students to

- understand the structural organisation and function of cells, cell membrane, cytoskeleton, mitochondria and peroxisome
- comprehend the structure, organisation and function of the cytoplasmic vacuolar system, nucleus, chromosomes and mechanism of vesicular transport
- understand the basics of cell signalling, cell cycle and its regulation, apoptosis and cancer biology
- acquire in-depth knowledge of nucleic acids, DNA replication and repair mechanisms in prokaryotes and eukaryotes
- comprehend gene organisation, expression and in prokaryotes and eukaryotes and gene regulation in eukaryotes

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall the basic concepts related to structure of prokaryotic and eukaryotic cells, the structure and functions of various organelles, diseases related to defective mitochondria and lysosome, cell signalling, cell cycle and its regulation, apoptosis and cancer biology, the structure and types of nucleic acids, DNA replication and repair and the organisation, regulation and expression of genes	K1
CO 2	describe the structure of prokaryotic and eukaryotic cells, the structure and functions of various organelles, diseases related to defective mitochondria and lysosome, cell signalling, cell cycle and its regulation, apoptosis, characteristics of cancer cell and genetic basis of cancer, the structure and types of nucleic acids, DNA replication and repair and the organisation, regulation and expression of genes	K2
CO 3	apply the knowledge gained to compare the structure of prokaryotic and eukaryotic cells, describe the structure and functions of various organelles, diseases related to defective mitochondria and lysosome, cell signalling, cell cycle and its regulation, apoptosis, characteristics of cancer cell and genetic basis of cancer, the structure and types of nucleic acids, DNA replication and repair and the organisation, regulation and expression of genes	K3

COs	DESCRIPTION	CL
CO 4	analyse the structure of prokaryotic and eukaryotic cells, the structure and functions of various organelles, diseases related to defective mitochondria and lysosome, cell signalling, cell cycle and its regulation, apoptosis, characteristics of cancer cell and genetic basis of cancer, the structure and types of nucleic acids, DNA replication and repair and the organisation, regulation and expression of genes	K4
CO 5	evaluate the structure of prokaryotic and eukaryotic cells, the structure and functions of various organelles, diseases related to defective mitochondria and lysosome, cell signalling, cell cycle and its regulation, apoptosis, characteristics of cancer cell and genetic basis of cancer, the structure and types of nucleic acids, DNA replication and repair and the organisation, regulation and expression of genes	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction – Prokaryotic and Eukaryotic Cells 1.2 Cell Membrane: Structural Organization, Asymmetry and Fluidity, Specializations in Structure - Transport Across Membranes 1.3 Cytoskeleton: Microtubules, Actin Filaments and Intermediate Filaments 1.4 Mitochondria: Structure, functions (overview), biogenesis (endosymbiont theory) and Mitochondrial diseases (Leigh syndrome and Progressive external ophthalmoplegia) - Peroxisomes	K1 - K5	13	1 - 5
2	2.1 Cytoplasmic Vacuolar System: Endoplasmic Reticulum, Golgi Apparatus, Lysosomes: Structure, Polymorphism, Functions and Diseases 2.2 Vesicular Transport and Protein trafficking 2.3 Nuclear Organization 2.4 Chromosomes: Structure, Types and Functions	K1 - K5	13	1 - 5
3	3.1 Cell Cycle and its Regulation 3.2 Cell Signaling: Basic principles of intercellular and intracellular signaling and Signal Transduction through G-protein coupled receptor and Enzyme coupled receptor (Receptor Tyrosine Kinase) 3.3 Apoptosis - Role of neurotrophins and mitochondria in Apoptosis 3.4 Cancer Biology: Characteristics of a Cancer Cell – Altered Cell Cycle in Cancer Cell - Genetic Basis (A brief study): Role of Proto-oncogenes, Oncogenes and Tumour Suppressor Genes	K1 - K5	13	1 - 5

UNIT	CONTENT	CL	HRS	CO
4	4.1 Nucleic Acids : Types, Molecular Structure and Functions 4.2 DNA Replication: Theta model in prokaryotes (in detail), Rolling Circle Model - Replication in Eukaryotes 4.3 DNA Repair mechanisms – Mismatch Repair, Photoreactivation, Nucleotide Excision Repair, Base Excision Repair, SOS Repair, Non-Homologous End Joining (NHEJ)	K1 - K5	14	1 - 5
5	5.1 Organization of Prokaryotic genes and Eukaryotic genes 5.2 Gene regulation in Eukaryotes: Overview, Transcriptional activation (Glucocorticoid receptor) and Transcriptional repression (DNA methylation & long noncoding RNAs) 5.3 Transcription: Biosynthesis of RNA – Transcription Factors – Post Transcriptional Modifications 5.4 Ribosome: Structure & Function - Mechanism of Translation: Genetic Code - Post Translational Modifications in Collagen – RNA interference: Types (siRNA, miRNA & piRNA) and Significance	K1 - K5	12	1 - 5

BOOKS FOR STUDY

Verma, P. S., & Agarwal, V. K. (2016). *Cell biology (cytology, biomolecules and molecular biology)*. S CHAND & CO LTD.
Rastogi, V. B. (2015). *Principles of Molecular Biology* (2nd ed.). Medtech.

BOOKS FOR REFERENCE

Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K. & Walter. P. (2014). *Molecular Biology of the Cell*. (6th ed.). New York: Garland.
Cooper, G.M. and Hausman. R. E. (2004). *Cell – A Molecular Approach*. U.K: Sinauer Associates.
Karp, G., Iwasa, J. & Marshall. W. (2018). *Karp's Cell Biology*. USA: John Wiley.
Karp, G. (2010). *Cell and Molecular Biology: Concepts and Experiments*. New Jersey: John Wiley.
Lodish, H., Berk, A. , Kaiser, C. A., Krieger, M. & Bretscher, A. (2016). *Molecular Cell Biology*. New York: W.H. Freeman.
Watson, J.D., Baker, T. A., Bell, S. P., Gann, A., Levin, M. and Losick, R. (2007). *Molecular Biology of the Gene*. California: The Benjamin Cummings.
Wolfe, S. I. (1995). *An Introduction to Cell and Molecular Biology*. California: Wadsworth.

WEB RESOURCES

SWAYAM-NPTEL Course on Cell Biology: Cellular organization, division and processes
https://onlinecourses.nptel.ac.in/noc21_cy15/preview
www.cellbio.com
<http://www.ibiblio.org/virtualcell/index.htm>

JOURNALS

Journal of Cell and Molecular Biology
Journal of Molecular Cell Biology

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (10 marks)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	$5 \times 2 = 10$	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	$1 \times 10 = 10$	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	$1 \times 15 = 15$	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	$1 \times 5 = 5$	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Quiz / Assignment / Video Assignment / Poster presentation / Case Study / Model making

Two to three components will be prescribed

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 = 20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	10 x 2 = 20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 = 20	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 = 30	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 questions	3K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/CM54												
	Course Title: CELL AND MOLECULAR BIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	1	1	3	2	3	2	1
CO 2	3	3	3	2	3	2	1	1	3	2	3	2	1
CO 3	3	3	3	2	3	2	1	1	3	2	3	2	1
CO 4	3	3	3	2	3	2	1	1	3	2	3	2	1
CO 5	3	3	3	2	3	2	1	1	3	2	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

FUNDAMENTALS OF BIOTECHNOLOGY

CODE: 23ZL/MC/FB54

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable students to

- acquire an overview and understand the basic concepts and tools in biotechnology
- comprehend the underlying mechanisms and methods of cloning, DNA transfer and site-directed mutagenesis
- comprehend the applications of various techniques in human welfare, genetically modified organisms and related ethical issues
- comprehend the Animal Cell and Tissue Culture techniques, Stem Cell therapy and significance of IPR
- understand the methods of DNA sequencing, basic concepts of Bioinformatics, significance of Human Genome Project and Enzyme technology and its applications.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts and tools in biotechnology, mechanisms and methods of cloning, DNA transfer and site-directed mutagenesis, applications of various techniques in human welfare, genetically modified organisms and related ethical issues, animal cell and tissue culture techniques, Stem Cell therapy and significance of IPR, methods of DNA sequencing, basic concepts of Bioinformatics, significance of Human Genome Project and Enzyme technology and its applications	K1
CO2	describe the tools in biotechnology, mechanisms and methods of cloning, DNA transfer and site-directed mutagenesis, applications of various techniques in human welfare, genetically modified organisms, animal cell and tissue culture techniques, Stem Cell therapy and significance of IPR, methods of DNA sequencing, basic concepts of Bioinformatics, significance of Human Genome Project and Enzyme technology and its applications	K2
CO3	apply the acquired knowledge to explain the tools in biotechnology, mechanisms and methods of cloning, DNA transfer and site-directed mutagenesis, applications of various techniques in human welfare, genetically modified organisms, animal cell and tissue culture techniques, Stem Cell therapy and significance of IPR, methods of DNA sequencing, basic concepts of Bioinformatics, significance of Human Genome Project and Enzyme technology and its applications	K3

COs	DESCRIPTION	CL
CO4	analyse the role of various tools in biotechnology, methods of cloning, significance of DNA transfer and site-directed mutagenesis, applications of various techniques in human welfare, genetically modified organisms, animal cell and tissue culture techniques and Stem Cell therapy, significance of IPR, methods of DNA sequencing, applications of Bioinformatics, significance of Human Genome Project and applications of Enzyme technology	K4
CO5	evaluate the role of various tools in biotechnology, methods of cloning, significance of DNA transfer and site-directed mutagenesis, applications of various techniques in human welfare, genetically modified organisms, animal cell and tissue culture techniques and Stem Cell therapy, significance of IPR, methods of DNA sequencing, applications of Bioinformatics, significance of Human Genome Project and applications of Enzyme technology	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Definition and areas of Biotechnology 1.2 Tools of Genetic Engineering: Enzymes, Recombinant DNA Technology, Passenger DNA, Cloning Vectors - cDNA Library - Gene Bank 1.3 Electrophoresis, Northern, Southern and Western Blots - PCR Technique	K1 - K5	12	1 - 5
2	2.1 Cloning in Prokaryotes and Eukaryotes 2.2 Methods of Transfer of Foreign DNA into Cells: Electroporation, Particle Bombardment Gun, Ultrasonication, Liposome Mediated Transfer and Microinjection 2.3 Site - Directed Mutagenesis	K1 - K5	14	1 - 5
3	3.1 Gene Cloning in Medicine: Insulin and Somatotropin 3.2 Diagnosis and Treatment: DNA Probe, ELISA Technique, Hybridoma Technology, Vaccines, DNA Fingerprinting and Gene Therapy 3.3 Genetically Modified Organisms (Microorganisms, Plants and Animals) - Benefits and Hazards of Genetic Engineering - ELSI related to Genetic Engineering	K1 - K5	12	1 - 5
4	4.1 Animal Cell and Tissue Culture Techniques – Culture Media – Natural and Artificial – Primary and Secondary Cell Lines – Culture Methods – Merits and Demerits 4.2 Stem Cell: Classification, Applications and Ethical Issues 4.3 Biotechnology & Intellectual property: Intellectual property rights (IPR) & Intellectual Property protection (IPP)- patenting of biological materials	K1 - K5	13	1 - 5

UNIT	CONTENT	CL	HRS	CO
5	5.1 DNA sequencing- Sanger method & applications 5.2 Human Genome Project & its significance - Organisation of Human Genome 5.3 Basic Concept of Bioinformatics: Proteomics and Genomics 5.4 Enzyme Technology: Production, Immobilisation and Application	K1 - K5	14	1 - 5

BOOK FOR STUDY

Dubey, R.C. (2014). *A TextBook of Biotechnology*. New Delhi: S.Chand

BOOKS FOR REFERENCE

Pranav Kumar and Usha Mina *Biotechnology* (2017). - *A problem approach* (5th ed.). Gurugram: Pathfinder Publication

Singh, B.D. (2015). *Biotechnology : Expanding Horizons*. Chennai: Kalyani Publishers

Ashim, K. Chakravarty, (2013). *Introduction to Biotechnology*, U.K: Oxford Press

Godbey, W.T (2014). *An introduction to Biotechnology*, Netherlands: Academic Press

Thieman, (2014). *Introduction to Biotechnology*, (3rd ed.). U.K :Pearson Publications Mcgiffen.

Steven P. (2005). *Biotechnology*. USA: Pluto Press

Mahesh, S. (2006). *Biotechnology IV*. India: New Age International

Nicholl, Desmond, S.T. (2002). *An Introduction to Genetic Engineering*. UK: Cambridge University Press

Sathyanarayana, U. (2013). *Biotechnology*. New Delhi: Books and Allied Private Limited

WEB RESOURCES

SWAYAM-NPTEL course on Fundamentals of Biotechnology

<https://nptel.ac.in/courses/102103045>

<http://www.ncbi.nlm.nih.gov/>

<http://www.hhmi.org/biointeractive>

JOURNAL

Journal of Biotechnology The Scitech Journal

Indian Journal of Biotechnology

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	$5 \times 2 = 10$	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	$1 \times 10 = 10$	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	$1 \times 15 = 15$	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	$1 \times 5 = 5$	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks:50**

Seminars/Quiz/Assignments/Scrap book/Report

Two to three components will be prescribed.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 = 20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	10 x 2 = 20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 = 20	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 = 30	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/FB54												
	Course Title: FUNDAMENTALS OF BIOTECHNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	3	2	2	2	2
CO 2	3	3	3	2	2	2	2	1	3	3	2	3	2
CO 3	3	3	3	2	2	2	2	1	3	3	2	3	2
CO 4	3	3	3	2	2	2	2	1	3	3	2	3	2
CO 5	3	3	3	2	3	2	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

GENETICS

CODE:23ZL/MC/GN54

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable students to

- understand the basic concepts of Mendelian inheritance, genetic interactions and extra-chromosomal inheritance
- have a comprehensive and detailed understanding of multiple genic inheritance, multiple allelic inheritance, inheritance of linked genes, and linkage mapping
- understand the different types of sex- determining mechanisms, significance of Barr body, sex linked inheritance, and sex influenced and sex limited genes in humans
- comprehend the types and causes of mutations and inborn errors of metabolism and the importance of genetic counselling
- understand the basic concepts and mechanisms involved in Population Genetics, Developmental Genetics, Epigenetics and Conservation Genetics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall the basic concepts of Mendelian Genetics and extensions of Mendelian Genetics, linkage, crossing over and linkage mapping, sex determination mechanisms and sex linkage, mutations, genetic disorders, pedigree analysis, genetic counselling, population genetics, developmental genetics, epigenetics and conservation genetics	K1
CO 2	describe the Mendelian inheritance, other patterns of inheritance, mechanisms of sex-determination, linkage and crossing over, mutations, genetic disorders, genetic counselling and the concepts in population genetics, developmental genetics, epigenetics, and conservation genetics	K2
CO 3	apply the acquired knowledge to solve problems, construct pedigree charts, differentiate the patterns of inheritance, discuss the mechanisms of sex-determination, linkage and crossing over, the types and causes of mutations, genetic disorders and significance of genetic counselling, and to explain the concepts in population genetics, developmental genetics, epigenetics and conservation genetics	K3
CO 4	analyse the different patterns of inheritance, mechanisms of sex-determination, linkage and crossing over, types and causes of mutations, genetic disorders and significance of genetic counselling, and concepts in population genetics, developmental genetics, epigenetics, and conservation genetics	K4

CO 5	evaluate the patterns and mechanisms in genetic inheritance, pedigree charts, sex-determining mechanisms, types and causes of mutations, genetic disorders, significance of genetic counselling and the concepts in population genetics, developmental genetics, epigenetics and conservation genetics			K5
UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction: Mendel and his Experiments - Laws - Back Cross / Test Cross - Application of Mendel’s principles to predict the outcomes of crosses (The Punnett-Square Method, The Forked-Line Method and The Probability Method) 1.2 Interaction of Genes : Incomplete Dominance – Codominance - Lethal Genes - Epistasis and other modified ratios: Inheritance of flower colour in Sweet Pea, seed capsule shape in Shepherd’s Purse, Fruit Colour in Summer Squash, Coat colour in mice - Phenocopy - Penetrance and Expressivity 1.3 Extra Chromosomal Inheritance : Criteria for Extra Chromosomal Inheritance - Cytoplasmic Inheritance (Plastid Inheritance in <i>Mirabilis jalapa</i>) - Maternal Influence (Shell Coiling in <i>Limnaea</i>) – Mitochondrial Inheritance (Kearns - Sayre Syndrome)	K1 - K5	11	1 - 5
2	2.1 Polygenic Inheritance: Characteristics – Eg. Skin Colour in Humans - Transgressive Variation (Weight in Chicken) - Calculating the number of polygenes 2.2 Multiple Allelic inheritance: Characteristics – Eg.Coat Colour in Rabbits 2.3 Linkage and Crossing Over: Complete and Incomplete Linkage in <i>Drosophila</i> - Cytological Proof of Crossing Over, Eg. <i>Drosophila</i> – Linkage Mapping	K1 - K5	10	1 - 5
3	3.1 Sex Determination: Chromosomal Mechanisms of Sex Determination, Male Haploidy - Environmental Factors Affecting Sex Determination 3.2 Sex Determination in <i>Drosophila</i> - Sex Determination in Humans - Dosage Compensation: Barr Body and Lyon’s Hypothesis 3.3 Sex Linkage: X-linked recessive inheritance (<i>Drosophila</i> , Eye Colour – Humans, Duchenne Muscular Dystrophy) - Y- Linked Inheritance - Sex Influenced and Sex Limited Genes in Humans	K1 - K5	9	1 - 5
4	4.1 Mutations: Classification - Point Mutations: Frameshift and Substitution mutations, Mutagens - Ames Test 4.2 Chromosomal Aberrations: Types, Examples and Causes - Numerical Variations: Non-disjunction and autosomal and allosomal aneuploid condition in humans, Polyploidy: origin, types, examples and significance 4.3 Inborn Errors of Metabolism: Phenylalanine metabolic pathway, Galactosemia and Lactose Intolerance- Genetic Counselling	K1- K5	11	1 - 5

UNIT	CONTENT	CL	HRS	CO
5	5.1 Population Genetics: Gene Pool and Gene Frequency, Hardy - Weinberg Law and Factors Influencing Allele Frequency 5.2 Genetic Regulation of Development in <i>Drosophila</i> : Developmental Stages – Three Major Classes of Developmental Genes (Maternal Effect Genes, Segmentation Genes and Homeotic Genes) 5.3 Epigenetics: Definition, Mechanisms – Epigenetics and cancer, imprinting, nutrition and ageing. 5.4 Conservation Genetics:- <i>Ex Situ</i> Conservation : pros and cons, examples of Captive Breeding and Gene Banks- <i>In Situ</i> Conservation: pros and cons, examples of Population Augmentation - Case study Analysis	K1 - K5	11	1 - 5

BOOKS FOR STUDY

Verma, P.S. & Agarwal. V. K. (2013). *Genetics*. 9th (ed.). New Delhi: S. Chand

Klug, W. S., Cummings, M. and Spencer, C. (2018). *Concepts of Genetics*. (12th ed.). New Jersey: Pearson Education

BOOKS FOR REFERENCE

Cummings, M. R. (2012). *Human Heredity – Principles and issues*. (10th ed.). Canada: Thomson Brooks/Cole.

Hartl, D. L. (2013). *Essential Genetics & Genomics*. (7th ed.). USA: Jones & Bartlett Learning.

Pierce, B. A. (2016). *Genetics – A conceptual approach*. (6th ed.). New York: W. H. Freeman.

Russel, P. J. I. (2011). *Genetics – A molecular approach*. San Francisco: Benjamin Cummings.

Snustad, P. D. and Simmons, M. J. (2012). *Principles of Genetics*. (6th ed.). New York: John Wiley.

WEB RESOURCES

SWAYAM COURSE on Principles of Genetics

https://onlinecourses.swayam2.ac.in/cec21_bt02/preview

www.ncbs.res.in

www.omim.org

JOURNALS

Journal of Genetics and Genomics

Journal of Human Genetics

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	5 x 2 = 10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	5 x 2 = 10	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	1 x 10 = 10	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	1 x 15 = 15	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Quiz/Problem solving/Group projects/Pedigree construction and analysis/Data collection and interpretation/Assignment

Two to three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 = 20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc)	K2 (20 marks)	10 x 2 = 20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 = 20	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 = 30	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/GN54												
	Course Title: GENETICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	3	1	3	2	3	3	3
CO 2	3	3	3	2	2	1	3	1	3	2	3	3	3
CO 3	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 4	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 5	3	3	3	2	3	2	3	1	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

**CELL AND MOLECULAR BIOLOGY, GENETICS
AND BIOTECHNOLOGY PRACTICAL**

CODE: 23ZL/MC/P553

CREDITS: 3

L T P: 0 0 6

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

To enable students to

- understand the basic principle, procedure and to determine the size of microscopic specimen, the total number of RBCs and WBCs and interpret the results
- develop the necessary skills for analysing the inheritance patterns, pedigree of some human inherited traits/diseases/disorders, Mendelian traits, normal and abnormal Karyotypes and calculate the gene frequency and genotypic frequency
- develop the necessary skills for squash/smear preparation and to determine the ABO blood groups and Rh type
- identify and comment on mutant forms, equipment used in various experiments and *Drosophila* culture
- write a report on the inheritance of Mendelian traits in humans and/or laboratory visit, and maintain an observation and record book

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	submit a record of practical work carried out in the laboratory and/or a report on a laboratory visit and/or report on inheritance of Mendelian traits	K1
CO2	illustrate and describe the <i>Drosophila</i> mutant forms, equipment used in <i>Drosophila</i> culture and various biotechnology experiments	K2
CO3	demonstrate the necessary skills for squash/smear preparation and to determine the ABO blood groups and Rh type	K3
CO4	analyse the inheritance patterns, pedigree of some human inherited traits/diseases/disorders, Mendelian traits, normal and abnormal Karyotypes and calculate the gene frequency and genotypic frequency	K4
CO5	calibrate the ocular micrometer to standardise the microscope and determine the size of microscopic specimen, count the total number of RBCs and WBCs and interpret the results	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate

UNIT	CONTENT	CL	Hrs	CO
1	i. Micrometry ii. RBC Count iii. WBC Count	K5	16	CO 5
2	i. Pedigree Analysis of some human inherited traits/disorders/diseases ii. Study of any five Mendelian Traits iii. Observation and interpretation of the following karyotypes: normal male and female, Turner's, Klinefelter's and Down's syndrome iv. Hardy -Weinberg Equilibrium: Calculating Gene Frequency and Genotypic Frequency using bead experiments - Calculating Gene Frequency and Genotypic Frequency based on the data provided	K4	14	CO 4
3	i. Mitosis - in onion root tip ii. Meiosis - in grasshopper testis iii. <i>Chironomus</i> - Polytene chromosome - squash preparation iv. Squamous epithelium squash preparation – Barr body v. ABO Blood Grouping and Rh typing	K3	18	CO 3
4	i. Camera lucida ii. <i>Drosophila</i> culture techniques - Workshop* iii. <i>Drosophila</i> mutants iv. Genomic DNA extraction – Group practical* v. Total RNA extraction - Group practical* vi. Agarose Gel Electrophoresis – Group practical* vii. Isolation of Plasmid DNA – Demonstration* viii. Polymerase Chain Reaction – Virtual Lab Demonstration*	K2	20	CO 2
5	i. Report on inheritance of Mendelian traits in humans ii. Visit to a Molecular Biology/Biotechnology Laboratory - Compilation of Report iii. Maintenance of observation notebook and record	K1	10	CO 1

*Experimental setup/equipment used can be assessed under Section D

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50 Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (20 marks)	$1 \times 20 = 20$	1 question	1 question
B (Unit 2)	K4 (6 marks)	$2 \times 3 = 6$	2 questions	2 questions
C (Unit 3)	K3 (10 marks)	$1 \times 10 = 10$	1 question	1 question
D (Unit 4)	K2 (9 marks)	$3 \times 3 = 9$	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Report & Observation notebook	Report & Observation notebook
Total		50	7	7

End Semester Examination: Total Marks: 50 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (20 marks)	$1 \times 20 = 20$	1 question	1 question
B (Unit 2)	K4 (6 marks)	$2 \times 3 = 6$	2 questions	2 questions
C (Unit 3)	K3 (10 marks)	$1 \times 10 = 10$	1 question	1 question
D (Unit 4)	K2 (9 marks)	$3 \times 3 = 9$	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Record Notebook	Record Notebook
Total		50	7	7

Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23ZL/MC/P553												
	Course Title: CELL AND MOLECULAR BIOLOGY, GENETICS AND BIOTECHNOLOGY PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	2	1	3	2	2	1	1
CO 2	3	2	3	2	3	2	3	1	3	2	3	2	2
CO 3	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

Interdisciplinary Core Course Offered by the Departments of Sociology and Zoology to

B.A. Sociology and B.Sc. Advanced Zoology and Biotechnology Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIOETHNOZOOLOGY

CODE: 23/ID/IC/SZ55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

To enable students to

- understand the meaning of Ethnobiology, Ethnozooology, Ethnology, Sociology, Sociobiology and comprehend the role of animals in human culture and human – animal relationships
- understand the sociology of human-animal relationships
- comprehend the significance of animal domestication, historical, sociological and economic importance of animals and zooindicators of weather and climate
- understand social evolution, social groups, social organisation in invertebrates and vertebrates and the theory of parental investment
- comprehend the fundamental principles and modes of communication in humans and animals

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall basic definitions related to Ethnology, Sociology and their derivatives, concepts regarding human - animal relationships and the role of animals in culture, historical, sociological and economic importance of animals including their use as food, medicine and zooindicators of weather and climate, social evolution and organisation, and communication in humans and animals	K1
CO2	describe the wide ranging relationships between humans and animals, communication in humans and animals, social evolution, social organisation, ethnological and sociological concepts	K2
CO3	apply the knowledge gained to identify the historical, sociological and economic use of animals including their use as food, medicine and zooindicators of weather and climate; discuss the meaning of Ethnology, Sociology and related disciplines, human-animal relationships, social evolution, social organisation and communication in humans and animals	K3

COs	DESCRIPTION	CL
CO4	examine the process of social evolution, social organisation, modes of communication and their functions in humans and animals, human-animal relationships, historical, sociological and economic use of animals including their use as food, medicine and zooindicators of weather and climate	K4
CO5	explain concepts related to Ethnology, Sociology and Sociobiology; human -animal relationships, significance of animals in culture, historical, sociological and economic use of animals including their use as food, medicine and zooindicators of weather and climate; social evolution, social organisation in invertebrates and vertebrates; and communication in humans and animals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning of Ethnobiology and Ethnozoology- Basic definitions- Qualities of Sociality 1.2 Role of animals in human culture: Biological predisposition and individual differences in human attitudes towards animals - Animal Mythology in the Indian context 1.3 Meaning of Ethnology; Sociology; Sociobiology 1.4 Interdisciplinary Approach in understanding Human-Animal Relationship – Sociozoologic scale	K1 - K5	15	1- 5
2	Sociology of Human and Animal Relationship 2.1 Significance of Sociology of Human-Animal Relationship 2.2 Scope of Sociology of Human-Animal Relationship 2.3 Sociological Perspective on Human Animal Relationship: Symbolic Interactionism Theory and Conflict Theory 2.4 Social Relationships and Social Organizations.	K1 - K5	15	1-5
3	Ethnozoology 3.1 Historical and Sociological significance of animals and their domestication 3.2 Animals as food: Arthropods – Molluscs – Echinoderms - Vertebrates 3.3 Animals in medicine : Traditional and Contemporary 3.4 Economic importance of animals and their products - Animals as zooindicators of weather and climate	K1 - K5	16	1-5
4	Social Evolution 4.1 Meaning of Organic Evolution, Natural Selection and Social Evolution - Cooperation, coordination and division of labour 4.2 Social Groups: Altruism, kin selection, dominance and hierarchy	K1 - K5	16	1-5

UNIT	CONTENT	CL	HRS	CO
	4.3 Coloniality: Adaptive basis of coloniality – Adaptive significance of roles – Optimization of Caste Systems - Social insects: Ants, Bees and Termites – evolution of social organisation - Other Social species: invertebrates (Coelenterates), Fish, Frogs, Reptiles, Birds and Mammals (Social traits and Social Behaviour in Chimpanzee) 4.4 The Theory of Parental Investment - Ecology of Parental Care – Parent-Offspring conflict – Alloparental care			
5	Verbal and Nonverbal Communication 5.1 Origin of human language – Forms of communication 5.2 Verbal and non-verbal communication and its functions 5.3 Non-verbal communication in animals : Discrete versus graded signals - Signal specificity-Signal economy 5.4 Functions, advantages and disadvantages of animal communication - a comparative study	K1 - K5	16	1-5

BOOKS FOR REFERENCE

Franklin, A. (1999) Animals and Modern cultures-A Sociology of Human Animal Relations in Modernity. London: Sage Publications
 Anderson, E.N and Pearsall, D. (2011) Ethnobiology, Wiley Blackwell
 Peggs, K. (2012). Animals and Sociology. U.K: Palgrave Macmillan.
 Alves, R. R. N. and Albuquerque, U.P. (2017) Ethnozoology: Animals in our lives. Academic Press
 Wilson, E. O. (2000) Sociobiology : The New synthesis (25th anniversary ed.). Cambridge: Harvard University Press

WEB RESOURCES

Coursera course on Animals and Society <https://www.coursera.org/specializations/animals-society>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Part I: Sociology Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective type	K1 (3 marks)	3 x 1 =3	3 K1 questions	3 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Relate, Identify, Comment on, etc.)	K2 (4 marks)	2 x 2 =4	2 K2 questions	2 K2 questions
C (Answer any one question) Essay (400 words)	K3 (8 marks)	1 x 8 = 8	1 K3 question	2 K3 questions
D (Answer any one question) Paragraph (200 words)	K4 (5 marks)	1 x 5 = 5	1 K4 question	2 K4 questions
E (Answer any one question) Paragraph (200 words)	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Part II: Zoology Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective type	K1 (3 marks)	3 x 1 =3	3 K1 questions	3 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Relate, Identify, Comment on, etc.)	K2 (4 marks)	2 x 2 =4	2 K2 questions	2 K2 questions
C (Answer any one question) Essay (400 words)	K3 (8 marks)	1 x 8 = 8	1 K3 question	2 K3 questions
D (Answer any one question) Paragraph (200 words)	K4 (5 marks)	1 x 5 = 5	1 K4 question	2 K4 questions
E (Answer any one question) Paragraph (200 words)	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	16	22

Other Components:**Total Marks: 50**

Observation, documentation and compilation of field report/Case study Analysis/
Assignment/Report Submission/Presentation

Two to three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Part I: Sociology Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective type	K1 (6 marks)	6 x 1 =6	6 K1 questions	6 K1 questions
B (Answer all Questions)(Distinguish/ Differentiate between, Illustrate, Relate, Identify, Comment on, etc.)	K2 (8 marks)	4 x 2 =8	4 K2 questions	4 K2 questions
C (Answer any two questions) Essay (400 words)	K3 (16 marks)	2 x 8 = 16	2 K3 questions	3 K3 questions
D (Answer any two questions) Paragraph (200 words)	K4 (10 marks)	2 x 5 = 10	2 K4 questions	3 K4 questions
E (Answer any two questions) Paragraph (200 words)	K5 (10 marks)	2 x 5 = 10	2 K5 question	3 K5 questions
Part II: Zoology Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective type	K1 (6 marks)	6 x 1 =6	6 K1 questions	6 K1 questions
B (Answer all Questions) (Distinguish/ Differentiate between, Illustrate, Relate, Identify, Comment on, etc.)	K2 (8 marks)	4 x 2 =8	4 K2 questions	4 K2 questions
C (Answer any two questions) Essay (400 words)	K3 (16 marks)	2 x 8 = 16	2 K3 questions	3 K3 questions
D (Answer any two questions) Paragraph (200 words)	K4 (10 marks)	2 x 5 = 10	2 K4 questions	3 K4 questions
E (Answer any two questions) Paragraph (200 words)	K5 (10 marks)	2 x 5 = 10	2 K5 question	3 K5 questions
Total		100	32	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/SZ55												
	Course Title: SOCIOETHNOZOOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	3	3	2	2	2	2
CO 2	3	3	3	2	3	3	3	3	3	2	3	2	3
CO 3	3	3	3	2	3	3	3	3	3	2	3	2	3
CO 4	3	3	3	2	3	3	3	3	3	2	3	2	3
CO 5	3	3	3	2	3	3	3	3	3	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

ANIMAL BEHAVIOUR

CODE:23ZL/MC/AB64

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

To enable students to

- understand the basic concepts of Animal Behaviour and the scientific methods of observing Animal Behaviour and apply ethological concepts in observing and recording patterns of behaviour
- understand basic and maintenance behaviour, habitat selection and Chronobiology
- comprehend learning behaviour, interspecific behaviour, play behaviour and reproductive behaviour in animals
- understand the science, ethics and law related to Animal Welfare and apply these concepts to assess animal welfare, distinguish between normal and abnormal animal behaviour and provide behavioural enrichment
- comprehend the basic principles of Biopsychology, and the Biopsychology of emotion, stress, health and psychiatric disorders

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts of Animal Behaviour, scientific methods of observing Animal Behaviour and apply ethological concepts in observing and recording patterns of behaviour, basic and maintenance behaviour, habitat selection, Chronobiology, learning behaviour, interspecific behaviour, play behaviour and reproductive behaviour in animals; Science, ethics and law related to Animal Welfare, animal welfare assessment, normal and abnormal animal behaviour, behaviour enrichment, Biopsychology and Biopsychology of emotion, stress, health and psychiatric disorders	K1
CO2	describe the basic concepts of Animal Behaviour, scientific methods of observing Animal Behaviour and apply ethological concepts in observing and recording patterns of behaviour, basic and maintenance behaviour, habitat selection, Chronobiology, learning behaviour, interspecific behaviour, play behaviour and reproductive behaviour in animals; Science, ethics and law related to Animal Welfare, different aspects of animal welfare assessment, normal and abnormal animal behaviour, behaviour enrichment, basics of Biopsychology and Biopsychology of emotion, stress, health and psychiatric disorders	K2

COs	DESCRIPTION	CL
CO3	explain the basic concepts of Animal Behaviour, scientific methods of observing Animal Behaviour and apply ethological concepts in observing and recording patterns of behaviour, basic and maintenance behaviour, habitat selection, Chronobiology, learning behaviour, interspecific behaviour, play behaviour and reproductive behaviour in animals; Science, ethics and law related to Animal Welfare, different aspects of animal welfare assessment, normal and abnormal animal behaviour, behaviour enrichment, basics of Biopsychology and Biopsychology of emotion, stress, health and psychiatric disorders	K3
CO4	analyse the basic concepts of Animal Behaviour, scientific methods of observing Animal Behaviour and apply ethological concepts in observing and recording patterns of behaviour, basic and maintenance behaviour, habitat selection, Chronobiology, learning behaviour, interspecific behaviour, play behaviour and reproductive behaviour in animals; Science, ethics and law related to Animal Welfare, different aspects of animal welfare assessment, normal and abnormal animal behaviour, behaviour enrichment, basics of Biopsychology and Biopsychology of emotion, stress, health and psychiatric disorders	K4
CO5	evaluate the basic concepts of Animal Behaviour, scientific methods of observing Animal Behaviour and apply ethological concepts in observing and recording patterns of behaviour, basic and maintenance behaviour, habitat selection, Chronobiology, learning behaviour, interspecific behaviour, play behaviour and reproductive behaviour in animals; Science, ethics and law related to Animal Welfare, different aspects of animal welfare assessment, normal and abnormal animal behaviour, behaviour enrichment, basics of Biopsychology and the Biopsychology of emotion, stress, health and psychiatric disorders	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction: Behaviour - Causes and Significance - Ethology – History 1.2 Concepts and Terminology: Motivation - Fixed Action Pattern (FAP) - Sign Stimulus - Innate Releasing Mechanism (IRM) - Action Specific Energy (ASE) - Concept of Behavioural Genetics - Evolution of Behaviour 1.3 Methods of Studying Behaviour: Studies in Laboratories and in the Wild: Identification and Location of Individuals, Observation, Description, Recording and Cataloguing, Constructing Ethogram, Interpreting and Presenting Data	K1 - K5	13	1 - 5

UNIT	CONTENT	CL	HRS	CO
2	2.1 Basic and Maintenance Behaviour: Maintenance and Related Behaviour - Foraging and Caching - Shelter Seeking, Nests and other constructions 2.2 Finding a Place to Live: Habitat Selection – Homing 2.3 Chronobiology: Types of Rhythms and Applications of Chronobiology - Sleep cycle, Role of melatonin and Sleep disorders (Insomnia and Sleep Apnea)	K1 - K5	14	1 - 5
3	3.1 Animal Learning - Different forms of Animal Learning 3.2 Behaviour and Reproduction: Breeding Patterns, Courtship 3.3 Interspecific Behaviour: Aggregations, Commensalism, Mutualism, Parasitism and Predation - Play: General Attributes of Play, Examples / Descriptions of Play Behaviour, Theories	K1 - K5	13	1 - 5
4	4.1 Science, Ethics and Law in Animal Welfare 4.2 Welfare Assessment in Animals – Five Freedoms – Concept of Needs 4.3 Recognition of Normal Behaviour in Animals – Abnormal Behaviour in Pet, Domestic and Zoo Animals – Possible causes for Abnormal Behaviour – Prevention of abnormal behaviour – Behavioural Enrichment – Animal Protection Laws	K1 - K5	13	1 - 5
5	5.1 Introduction to Biopsychology: Definition and Divisions - Overview of Research methods of Biopsychology (Human and Nonhuman subjects) 5.2 Biopsychology of Emotion, Stress and Health: Theories on Emotion - Fear, defense and aggression - Stress response and Psychoneuroimmunology 5.3 Biopsychology of psychiatric disorders: Schizophrenia, Affective disorders (Depression and Mania) and Anxiety disorders	K1 - K5	12	1 - 5

BOOKS FOR STUDY

Mathur, R. (2018). *Animal Behaviour*. Meerut: Rastogi.

Shukla, J.P. (2023). *Fundamentals of Animal Behaviour*. Chennai: Atlantic Publishers and Distributors (P) Ltd.

Pinel, J. P. J., & Barnes, S. J. (2016). *Introduction to biopsychology*. Pearson Education.

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- Alcock, J. (2013) *Animal Behaviour - An Evolutionary Approach*. Massachusetts: Sinauer Associates.
- Grier, J. W. (1992). *Biology of Animal Behaviour*. Iowa: William C Brown Publication.
- Kalat, J. W. (2017). *Introduction to Psychology*. Boston: Cengage Learning.
- Manning, A. & Dawkins, M. S. (2012). *An Introduction to Animal Behaviour*. U.K: Cambridge University.
- Raven, P. H., Johnson, G. B., Mason, K., Losos, J. & Singer. S. (2017). *Biology*. USA: McGraw Hill Education.
- Scott, G. (2005). *Essential Animal Behaviour*. USA: Blackwell.
- Slater, P.J.B. (1989). *An Introduction to Ethology*. U.K : Cambridge University Press.
- Sridhara S. (2009). *Recent trends in Animal Behaviour*. New Delhi: NIPA Books.

JOURNALS

The British Journal of Animal Behaviour
Journal of Ethology

WEB RESOURCES

SWAYAM-NPTEL course on Introduction to Psychology
https://onlinecourses.nptel.ac.in/noc23_hs39/preview
Coursera course on Animal Behaviour and Welfare
<https://www.coursera.org/learn/animal-welfare>
www.animalbehaviorsociety.org
<http://www.sanctuaryasia.com>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	$5 \times 2 = 10$	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	$1 \times 10 = 10$	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	$1 \times 15 = 15$	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	$1 \times 5 = 5$	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Quiz / Assignment / Video Assignment / Poster presentation / Case Study /Project

Two to three components will be prescribed

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 =20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	10 x 2 =20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 =20	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 = 30	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/AB64												
	Course Title: ANIMAL BEHAVIOUR												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	3	2	2	2	2
CO 2	3	2	3	2	3	3	3	2	3	3	3	2	3
CO 3	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

ECOLOGY

CODE:23ZL/MC/EC64

CREDITS:4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable students to

- comprehend the biotic, abiotic factors, biogeochemical cycles that govern the ecosystem
- acquire knowledge on the interrelationship of different habitats, their adaptations, productivity of the ecosystem and the importance of extra-terrestrial life.
- understand the various physico-chemical characteristics of aquatic ecology and comprehend the significance of biotic communities
- understand the attributes of population along with classification, functions and processes of ecosystem, biodiversity and its conservation
- comprehend the basic principles of Biostatistics and scientifically present ecological data

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall the structure and function of different ecosystems, abiotic and limiting factors, habitat ecology and biotic communities of different habitats and ecosystems including adaptations, ecosystem productivity and significance, space ecology, importance of physico-chemical characteristics of different habitats, attributes of population, policies and laws pertaining to conservation ecology, significance of biodiversity and its conservation and statistical procedures	K1
CO 2	describe the structure and function of different ecosystems, abiotic and limiting factors, habitat ecology and biotic communities of different habitats and ecosystems including adaptations, ecosystem productivity and significance, space ecology, importance of physico - chemical characteristics of different habitats, attributes of population, policies and laws pertaining to conservation ecology, significance of biodiversity and its conservation and statistical procedures	K2
CO 3	apply the knowledge gained to explain the structure and function of different ecosystems, abiotic and limiting factors, habitat ecology and biotic communities of different habitats and ecosystems including adaptations, ecosystem productivity and significance, space ecology, importance of physico - chemical characteristics of different habitats, attributes of population, policies and laws pertaining to conservation ecology, significance of biodiversity and its conservation and statistical procedures	K3

COs	DESCRIPTION	CL
CO 4	analyze the structure and function of different ecosystems, abiotic and limiting factors, habitat ecology and biotic communities of different habitats and ecosystems including adaptations, ecosystem productivity and significance, space ecology, importance of physico-chemical characteristics of different habitats, attributes of population, policies and laws pertaining to conservation ecology, significance of biodiversity and its conservation and statistical procedures	K4
CO 5	evaluate the structure and function of different ecosystems, abiotic and limiting factors, habitat ecology and biotic communities of different habitats and ecosystems including adaptations, ecosystem productivity and significance, space ecology, importance of physico - chemical characteristics of different habitats, attributes of population, policies and laws pertaining to conservation ecology, significance of biodiversity and its conservation and statistical procedures	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction to Ecology- Soil formation: texture, profile, classification and properties. 1.2 Abiotic factors: Temperature - Thermal stratification, Range of temperature tolerance. Light- composition, light on land and water. Biological effects of light on aquatic and terrestrial organisms and role of pH. 1.3 Limiting factors: Liebig's law of minimum – Shelford's law of tolerance - Biogeochemical cycles: Water, Oxygen, Carbon and Phosphorus	K1 – K5	12	CO1 - 5
2	2.1 Habitat ecology: Terrestrial habitat: Biomes, tundra, grassland, forest (coniferous, tropical, temperate and deciduous) – Ecotones (Shola forest) - Deserts: Fauna, adaptations of animals inhabiting deserts and caves 2.2 Ecosystem: Productivity – Carbon sequestration – Biomass 2.3 Exobiology : Space ecology – Microbiota – Extraterrestrial life – Cosmic life	K1 – K5	14	CO 1 - 5
3	3.1 Freshwater ecology: Physico-chemical nature of freshwater-biotic communities – Lotic habitats (rivers), Lentic habitats (Lakes- Pulicat Lake and Ponds) 3.2 Marine Ecology : Physico-chemical characteristics - biotic communities of pelagic and benthic zone - adaptations of deep sea animals 3.3 Estuarine systems: Physico-chemical characteristics – biotic communities	K1 - K5	13	CO 1 - 5

UNIT	CONTENT	CL	HRS	CO
4	4.1 Attributes of population: Density, Natality, Mortality and Age distribution 4.2 Ecosystems – Definition – Classification – Functions - Processes 4.3 Biodiversity: Definition - Magnitude – Laws related to biodiversity - Biodiversity of India - Distribution – Conservation: Biosphere Reserves – National Parks – Wildlife Sanctuaries	K1 - K5	14	CO 1 - 5
5	5.1 Analysis of ecological data using Biostatistics – Collection of Data – Census and sampling methods. Variable : Discrete and continuous 5.2 Presentation of data : Classification and tabulation – Diagrams and graphs : Bar, Pie, Histogram, Line graph – Concept of statistical population and sample characteristics of frequency distribution. 5.3 Measures of Central tendency: Mean, Median, Mode and Weighted Arithmetic Mean. Measures of Dispersion: Range, Quartile deviation, Mean deviation and Standard deviation, Correlation and Regression	K1 - K5	12	CO 1 - 5

BOOKS FOR STUDY

Kormondy, Edward J. (2017). *Concepts of Ecology*, (4th ed.). New Jersey: Pearson Education
 Sharma, P.D. (2017). *Ecology and Environment*, (13th ed.). Meerut: Rastogi Publication

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Bernard Rosner, (2010). *Fundamentals of Biostatistics*, (7th ed.). Boston: Cengage Learning
 Eugene Odum, Murray Barrick, and Gary W. Barrett, (2005). *Fundamentals of Ecology*, (5th ed.). Boston: Cengage Learning
 Michael Cain *et al.* (2011). *Ecology*, (2nd ed.). U.S.A: Sinauer Associates Inc, Sunderland, Massachussets
 Michael. L. McKinney *et al.* (2006). *Environmental Science*, (5th ed.).USA: Jones and Bartlett Learning
 Neeraj Nachiketa, (2018). *Environment and Ecology – A dynamic approach*, (1st ed.). Noida: GKP Publication
 Ranjith, Daniels and Jagadish, Krishnamurthy, (2009). *Environmental studies*, New Jersey: Wiley Publication
 Robert Leo Smith and Thomas M. Smith, (2015). *Elements of Ecology*, (9th ed.).New Jersey: Pearson Education
 Timothy Morton, (2018). *Being Ecological*, Penguin UK
 Veer Bala Rastogi and Jayaraj, M.S. (1998). *Animal Ecology and distribution of animals*, (8th ed.). Meerut : Kedar Nath Ram Nath

WEB RESOURCES

SWAYAM COURSE on Ecology and Environment

<https://archive.nptel.ac.in/courses/127/106/127106004/>

<http://www.nhptv.org/natureworks/nw4.htm>

www.deepspaceecology.com

JOURNALS

International Journal for Ecology and Development

Journal of Global Ecology and Conservation

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	$5 \times 2 = 10$	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	$1 \times 10 = 10$	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	$1 \times 15 = 15$	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	$1 \times 5 = 5$	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:

Total Marks: 50

Seminars / Quiz / Case Study / Poster Presentation / Terrarium / Model Making

Two to three components will be prescribed.

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 = 20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	10 x 2 = 20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 = 20	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 = 30	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 questions	3 K5 questions
Total		100	26	29

Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23ZL/MC/EC64												
	Course Title: ECOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	2	2	2	3	1	3	2	2	2	3
CO 2	3	3	3	2	2	2	3	1	3	2	3	2	3
CO 3	3	3	3	2	3	2	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	2	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	2	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

IMMUNOLOGY

CODE: 23ZL/MC/IM64

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

To enable students to

- understand the basic concepts, organization of the immune system and types of immunity
- comprehend the types and properties of antigens, structure, classification and functions of antibodies and applications of Antigen-Antibody reactions
- acquire knowledge on various immune responses and reactions
- understand the properties, classification, uses of cytokines and signal transduction through cytokine receptors and the immune reactions in infections
- comprehend the causes and the significance of autoimmune disorders, types of vaccines and their role in preventing infectious diseases

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts and knowledge of cells, tissues and organs of the immune system, types of immunity, classification and functions of antigens and antibodies, applications of antigen - antibody reactions, immune responses and reactions, properties and roles of cytokines, immune reactions in infections, causes and impact of autoimmune disorders, immunodeficiency diseases and significance of vaccines	K1
CO2	describe the cells, tissues and organs of the immune system, types of immunity, classification and functions of antigens and antibodies, applications of antigen - antibody reactions, immune responses and reactions, properties and roles of cytokines, immune reactions in infections, causes and impact of autoimmune disorders, immunodeficiency diseases and significance of vaccines	K2
CO3	apply the acquired knowledge to discuss the cells, tissues and organs of the immune system, types of immunity, classification and functions of antigens and antibodies, applications of antigen - antibody reactions, immune responses and reactions, properties and roles of cytokines, immune reactions in infections, causes and impact of autoimmune disorders, immunodeficiency diseases and significance of vaccines	K3

COs	DESCRIPTION	CL
CO4	analyse the basic concepts, different types of cells, tissues and organs of the immune system, mechanisms of different types of immunity, classification and functions of antigens and antibodies, applications of antigen - antibody reactions, immune responses and reactions, properties and roles of cytokines, immune reactions in infections, causes and impact of autoimmune disorders, immunodeficiency diseases and significance of vaccines	K4
CO5	evaluate the roles and functions of cells, tissues and organs of the immune system, mechanisms of different types of immunity, biological properties and functions of antigens and antibodies, applications of antigen - antibody reactions, mechanisms of immune responses and reactions, properties and roles of cytokines, immune reactions in infections, causes and impact of autoimmune disorders, immunodeficiency diseases and significance of vaccines	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction - History and Basics of Immunology 1.2 Cells and Molecules of the Immune System: Types, Source and Salient Functions - Primary and Secondary Lymphoid Tissues / Organs - Factors that can depress immune system in humans 1.3 Types of Immunity: Natural and Acquired Immunity - Active and Passive Immunity with Examples - Cellular and Humoral Immunity	K1 – K5	12	1 - 5
2	2.1 Antigens: Definition, Classification, Properties of Immunogens 2.2 Antibody: Primary Structure, Classification and Biological activities 2.3 Antigen - Antibody Reaction: Types and Applications - Principle and Applications of Immunotechniques: ELISA, RIA, Flow Cytometry, FISH and GISH	K1 – K5	10	1 - 5
3	3.1 Complement System: Three major pathways – functions 3.2 Hypersensitivity Reactions: Types and Immune Reactivity 3.3 Transplantation: Types of Transplant/Graft, Causes for Graft Rejection - Immunosuppression	K1 – K5	10	1 - 5
4	4.1 Cytokines: Definition, Properties, Classification and functions 4.2 Cytokine receptors - Signal Transduction through Cytokine receptors – therapeutic uses of Cytokines 4.3 Immune Reactions in Viral, Bacterial and Parasitic Infections	K1 – K5	11	1 - 5

UNIT	CONTENT	CL	HRS	CO
5	5.1 Autoimmune Disorders: Types - Causes and symptoms of Systemic Lupus Erythematosus and Rheumatoid Arthritis 5.2 Congenital and Acquired immunodeficiencies: Types - Causes and symptoms of X-linked agammaglobulinemia, Congenital B - cell immunodeficiencies, IgA deficiency and Chronic granulomatous disease 5.3 Common Infectious Diseases and Vaccines – National Immunisation Schedule (NIS) for infants, children and pregnant women in India	K1 – K5	9	1 - 5

BOOKS FOR STUDY

Rao, V. C. (2017). *Immunology*. Alpha science International Limited.

Paul. A. (2016). *Textbook of Immunology*. Kolkata: Books & Ailed (P) Ltd.

BOOKS FOR REFERENCE

Coico, R., Sunshine, G. & Benjamini, E. (2013). *Immunology*. New Jersey: John Wiley & Sons.

Delves, P. J., Seamus, J. M., Burton, D. R. & Roitt, I. M. (2017). *Roitts' Essential Immunology*. (13th ed.). UK: Wiley BlackWell.

Gangal, S. and Sontakke, S. (2013). *Textbook of Basic and Clinical Immunology*. Orient Blackswan.

Khan, F. H. (2009). *The Elements of Immunology*. USA: Pearson Education.

Murphy, K. & Weaver, C. (2017). *Janeways' Immunobiology*. (9th ed.). New York: Garland Science.

Punt, J. & Stranford, S. A., Patricia J. & Owen, J. A., (2018). *Kuby Immunology*. (8th ed.). New York: W.H. Freeman & Company

Wise, D.J and Carter, G. R. (2012). *Immunology – A Comprehensive Review*. New Jersey: Blackwell Science.

WEB RESOURCES

SWAYAM COURSE on Immunology

https://onlinecourses.swayam2.ac.in/cec23_bt13/preview

www.immunologylink.com

<http://www.proimmune.com>

JOURNALS

The Journal of Immunology

Journal of Clinical & Cellular Immunology

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	$5 \times 2 = 10$	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	$1 \times 10 = 10$	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	$1 \times 15 = 15$	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	$1 \times 5 = 5$	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Quiz/ Paper / Poster Presentation /Bio simulation /Panel Discussion /Research article based assignment

Two to three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	$10 \times 2 = 20$	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	$10 \times 2 = 20$	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	$2 \times 10 = 20$	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	$2 \times 15 = 30$	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	$2 \times 5 = 10$	2 K5 questions	3 K5 questions
Total		100	26	29

Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23ZL/MC/IM64												
	Course Title: IMMUNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	3	2	3	3	2
CO 2	3	3	3	2	2	2	2	1	3	2	3	3	2
CO 3	3	3	3	2	2	2	2	1	3	2	3	3	2
CO 4	3	3	3	2	2	2	2	1	3	2	3	3	2
CO 5	3	3	3	2	2	2	2	1	3	2	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

ANIMAL BEHAVIOUR, ECOLOGY AND IMMUNOLOGY PRACTICAL

CODE:23ZL/MC/P663

CREDITS:3

L T P:0 0 6

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

To enable students to

- understand the basic principle, procedure and develop the necessary skills to estimate the dissolved oxygen, calcium, carbonates and bi - carbonate alkalinity in different water samples
- develop the skills to identify and analyze the type of animal association, create, analyze and interpret ethogram and data sheets
- understand the basic principle, procedure and develop the necessary skills to estimate the pH and salinity in different water samples, soil nitrates and carbonates, detect the presence of hCG in urine sample, test for syphilis and identification of freshwater/marine planktons
- identify, illustrate and describe the nests of birds, rocky and sandy shore fauna and immune cells
- write a report on circadian patterns in humans and maintain an observation and record book

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	submit a record of the practical work carried out in the laboratory and a report on a study of circadian rhythms in humans	K1
CO 2	describe different types of bird nests, rocky shore and sandy shore fauna, types of immune cells, Radial Immunodiffusion Test, Ouchterlony Double Immunodiffusion Test and Anatomical Location of Various Immune Tissues and Organs in Fish	K2
CO 3	apply the knowledge gained to estimate pH and salinity in different water samples, test the Soil Nitrates and Carbonates, perform the test for Syphilis, detect the presence of hCG in human urine and identify freshwater/marine plankton	K3
CO 4	demonstrate the skills to analyse the type of animal associations and create, analyse and interpret ethogram and data sheets	K4
CO 5	demonstrate the skills to estimate dissolved oxygen, calcium, carbonates and bi - carbonate alkalinity in different water samples	K5

UNIT	CONTENT	CL	HRS	CO
1	i. Estimation of dissolved oxygen in different water samples ii. Estimation of Calcium in different water samples iii. Estimation of Total alkalinity - Free Carbondioxide, Carbonates and Bicarbonates in different water samples	K5	16	CO5
2	i. Identification and analysis of animal associations based on their adaptations and characteristic features : Mutualism, Commensalism, Parasitism, Predation (Two examples for each type) ii. Methods of Studying Animal Behaviour – Workshop iii. Observation of animal behaviour - making ethogram and data sheets	K4	16	CO4
3	i. Estimation of pH in different water samples ii. Estimation of salinity in different water samples iii. Qualitative Field tests for Soil Nitrates and Carbonates iv. VDRL Slide Flocculation Test for Syphilis v. ELISA – Qualitative Test for Pregnancy vi. Observation and Identification of Freshwater/Marine Plankton	K3	16	CO3
4	Observation and Identification of the following spotters i. Bird Nests ii. Rocky Shore and Sandy Shore Fauna iii. Immune Cells iv. Radial Immunodiffusion Test (Demonstration) v. Ouchterlony Double Immunodiffusion Test (Demonstration) vi. Anatomical Location of Various Immune Tissues and Organs in Fish (Demonstration)	K2	16	CO2
5	i. Report on the study of circadian patterns in humans ii. Maintenance of an observation and record book of practical work is an integral part of the syllabus	K1	14	CO 1

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (15 marks)	$1 \times 15 = 15$	1 question	1 question
B (Unit 2)	K4 (12 marks)	$2 \times 6 = 12$	2 questions	2 questions
C (Unit 3)	K3 (9 marks)	$1 \times 9 = 9$	1 question	1 question
D (Unit 4)	K2 (9 marks)	$3 \times 3 = 9$	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Report & Observation notebook	Report & Observation notebook
Total		50	7	7

End Semester Examination: Total Marks: 50 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Unit 1)	K5 (15 marks)	$1 \times 15 = 15$	1 question	1 question
B (Unit 2)	K4 (12 marks)	$2 \times 6 = 12$	2 questions	2 questions
C (Unit 3)	K3 (9 marks)	$1 \times 9 = 9$	1 question	1 question
D (Unit 4)	K2 (9 marks)	$3 \times 3 = 9$	3 questions	3 questions
E (Unit 5)	K1 (5 marks)	5	Record Notebook	Record Notebook
Total		50	7	7

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/MC/P663												
	Course Title: ANIMAL BEHAVIOUR, ECOLOGY AND IMMUNOLOGY PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	3	2	2	1	1	3	2	2	1	2
CO 2	3	3	2	2	2	1	3	1	3	3	2	1	3
CO 3	3	2	3	1	1	1	3	1	3	3	2	1	2
CO 4	3	3	2	2	1	2	3	1	3	3	2	2	3
CO 5	3	3	3	2	1	1	3	1	3	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

APPLIED ZOOLOGY

CODE:23ZL/ME/AZ45

CREDITS: 5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable students to

- understand the different types of aquaculture, their applications and the techniques used in fish/prawn preservation and processing, and aquarium maintenance
- comprehend aspects about the sericulture industry and research institutes in India, the economic importance of insect pests and different pest management strategies
- understand the economic importance of soil organisms and various sampling methods used in the extraction and identification of soil microarthropods
- understand the techniques used in aquarium setting, poultry, rabbitry, piggery and dairy science and the economic importance of mammals
- recognise the role of women in small scale industries, explore the functions of various research organisations and develop entrepreneurial skills

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the basic concepts of Applied Zoology, aquaculture, poultry rearing techniques, animal husbandry (rabbitry, piggery and dairy) economically important organisms and aspects of small scale industries and research organisations	K1
CO2	Describe the types and techniques of Aquaculture, significance of pests and their management, importance of soil organisms in the ecosystem, poultry rearing techniques, animal husbandry (rabbitry, piggery and dairy) and aspects of small scale industries, research organisations and entrepreneurial skills	K2
CO3	Apply the acquired knowledge to discuss types and techniques of aquaculture, aquarium setting, role of small scale industries and research organisations; implement integrated pest management techniques, poultry farming and animal husbandry (rabbitry, piggery and dairy) and related entrepreneurial skills.	K3
CO4	Categorise the types and techniques employed in culturing/rearing, maintenance and management of economically important organisms and examine the significance of research organisations, entrepreneurship and the role of women in small scale industries	K4
CO5	Assess types and techniques of Aquaculture, Poultry and Animal Husbandry; economically important organisms, pest management strategies, functions of small scale industries, research organisations and the entrepreneurial process	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Types of Aquaculture: Mono, Poly, Extensive, Semi-Intensive, Intensive, Super Intensive, Monosex, Sewage-fed culture and Integrated Fish Farming (Paddy cum fish culture) 1.2 Culture of Prawn, Lobster, Edible Oyster and Live Feed Animals (<i>Artemia sp.</i> , <i>Daphnia sp.</i> , and Rotifers) 1.3 Preservation and Processing of Fish and Prawn: Chilling, Freezing, Freeze Drying, Smoking, Salting and Canning – By products of Fishing Industry	K1 -K5	14	1- 5
2	2.1 Insect Pests: Salient Features, Nature of Destruction and Control Measures of the following pests: Pests of Paddy, Cotton, Sugar Cane and Stored Food Grains (Any Three Major Pests of each Crop/Stored Food Grains) 2.2 Identification, damage and control of any three Common Pests of Fruits and Vegetables 2.3 Integrated Pest Management	K1 - K5	13	1- 5
3	3.1 Economically Important Soil Animals: Soil Microarthropods, Millipedes, Centipedes, Snails and Slugs – Their Importance in Soil Ecosystem 3.2 Termites: Characteristics of Mound Soils – Decomposition of Organic Matter – Termitophiles – Termite Damage to Crops and Buildings – Control Measures 3.3 Soil Microarthropods: Sampling Methods and Identification of any five soil Microarthropods extracted using Berlese Funnel	K1-K5	13	1- 5
4	4.1 Aquarium setting and maintenance: ornamental fishes, safety measures and devices- prospects of Ornamental fisheries - export potential 4.2 Poultry Science: Quail Farming - Different Breeds - Selective Breeding, Housing and Rearing - Role of Nutrition in Egg Laying -Common Diseases - Economic Importance 4.3 Economic Importance of Mammals: Indirect and Direct Value of Mammals - Rabbit farming, Piggery and Dairy.	K1-K5	14	1- 5
5	5.1 Sericulture Industry in India - Central Silk Board - Silk Research Institutes in India - Role of women in small scale industries 5.2 Government and Research organisations: CIBA, ZSI, CMFRI, IARI, ICAR, CRRI, FAO, MSSRF, IIBAT and FSI 5.3 Entrepreneurial Skills: Marketing and Financial Support - Branding - Promotion	K1-K5	11	1- 5

BOOKS FOR STUDY

Ahsan, J. & Sinha, S.P. (2009). *Handbook of Economic Zoology*. New Delhi: S. Chand.
Shukla, G.S. & Upadhyay, V. B. (2017). *Economic Zoology*. Meerut: Rastogi.

BOOKS FOR REFERENCE

Ayyar, T.V. R. (2014). *Handbook of Economic Entomology*. Madras: Narendra.
Banerjee, G.C. (2008). *Poultry*. New Delhi: Oxford and IBH.
Daugherty, L. S. (2012). *Principles of Economic Zoology*. Memphis;General Books.
David, V. B. (1992). *Pest Management and Pesticides*. Madras: Namrutha Publications.
Ignacimuthu, S. & David, B. V. (2009). *Ecofriendly Insect Pest Management*. Bhopal: Elite.
Ismail, S.A.(2005). *The Earthworm Book*. Goa: India.
Jhingran, V.G. (1982). *Fish and Fisheries of India*. New Delhi: Hindustan Publishing Corporation.
Pandey, K. & Shukla, J. P. (2019). *Fish and Fisheries*. Meerut: Rastogi.
Pillay, T. V. R. & Kutty, M. N. (2005). *Aquaculture Principles and Practices*. Wiley India.
Singh, R. (2018). *Elements of Entomology*. Meerut: Rastogi.
Smith, D. J. (2016). *Aquarium Keeping*. New York City: Amazon Digital Services.
Vasantharaj, B. & Ananthakrishnan, T.N. (2004). *General and Applied Entomology*. Bombay: Tata McGraw Hill.

JOURNALS

The Journal of Basic and Applied Zoology
Zootechnia Tropical
Fishery Technology

WEB RESOURCES

https://agritech.tnau.ac.in/crop_protection/crop_prot_ipm_components.html
<https://www.agrifarming.in/how-to-start-pig-farming-from-scratch-a-complete-guide-for-beginners>
[www.texmin.nic.in > sites > default > files > note-on-sericulture2017-18-ThirdQtr.pdf](http://www.texmin.nic.in/sites/default/files/note-on-sericulture2017-18-ThirdQtr.pdf)
SWAYAM COURSE on Applied and Economic Entomology
https://onlinecourses.swayam2.ac.in/cec20_ge23/preview

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, State, Define, List, Give an example, etc.)	K1 (10 marks)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Comment, etc.)	K2 (10 marks)	$5 \times 2 = 10$	5 K2 questions	5 K2 questions
C (Answer any one question) Essay	K3 (10 marks)	$1 \times 10 = 10$	1 K3 question	2 K3 questions
D (Answer any one question) Essay	K4 (15 marks)	$1 \times 15 = 15$	1 K4 question	2 K4 questions
E (Answer any one question) Paragraph	K5 (5 marks)	$1 \times 5 = 5$	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:

Total Marks: 50

Scrap-book/ Poster Presentation/ Model-making/ Quiz / Assignment

Two to three components will be prescribed.

End- Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	Number of Questions to be answered	Number of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, State, Define, List, Give an example, Match the following, etc.)	K1 (20 marks)	$10 \times 2 = 20$	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Comment, etc.)	K2 (20 marks)	$10 \times 2 = 20$	10 K2 questions	10 K2 questions
C (Answer any four) Essay	K3 (20 marks)	$2 \times 10 = 20$	2 K3 questions	3 K3 questions
D (Answer any two) Paragraph	K4 (30 marks)	$2 \times 15 = 30$	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	$2 \times 5 = 10$	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/ME/AZ45												
	Course Title: APPLIED ZOOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	3	3	2	3	2	2	3	2
CO 2	3	2	3	2	3	3	3	2	3	2	2	3	2
CO 3	3	3	3	2	3	3	3	2	3	3	3	3	2
CO 4	3	3	3	2	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	2	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

PROJECT

CODE:23ZL/ME/PR45

CREDITS:5

OBJECTIVES OF THE COURSE

To enable students to

- carry out an independent study on a topic of their choice
- acquire a spirit of scientific inquiry
- learn research methodology, scientific writing and data interpretation

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO 1	Identify a scientific problem to carry out project work	K1
CO 2	Review relevant scientific literature	K2
CO 3	Design experiments	K3
CO 4	Collate, analyze and interpret data	K4
CO 5	Compile and present research findings and publish them	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

Criteria for Selection of Candidates

- The student should have research aptitude
- The student should possess good analytical skills, computer skills, good writing skills and the ability to interpret and discuss scientific data
- An eligibility test will be conducted

Guidelines

- Each student will present a list of topics in the area of her interest
- One of the topics will be approved by the Supervisor
- Weekly interaction with the supervisor is mandatory
- The project work will require
 - Practical work
 - Submission of project report
 - Viva-voce
- Project report should be submitted at the end of the semester on the stipulated date.

Evaluation

Continuous Assessment

50 marks

Rubrics for Evaluation	Marks	Cognitive Level
Research Statement and Review of Literature	20	K1 – K2
Methodology/Documentation/Discussion of Results	20	K3 – K4
Evaluation of Workflow	10	K5

End Semester

50 marks

Rubrics for Evaluation	Marks	Cognitive Level
Submission of Dissertation	20	K1 – K2
Textual and Data Analysis	20	K3 – K4
Viva Voce	10	K5

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23ZL/ME/PR45												
	Course Title: PROJECT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	3	2	1	3	2	3	2	2
CO 2	3	3	3	2	2	2	2	1	3	1	2	2	1
CO 3	3	3	3	2	2	2	2	1	3	3	3	2	1
CO 4	3	3	3	2	2	2	2	1	3	3	3	3	2
CO 5	3	3	3	2	2	2	2	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

MEDICAL LABORATORY TECHNOLOGY

(Skill development course)

CODE:23ZL/ME/LT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

To enable students to

- understand the types and need for Good Lab Practices, sterilization techniques used in the lab, preparation of important lab reagents and Biomedical Waste Management
- comprehend knowledge on the cellular components of blood, their formation, estimation through tests, normal range of cellular parameters, deviations from normal, pathological conditions
- understand aspects of immunohaematology
- comprehend details relating to macroscopic, microscopic and chemical analysis of body fluids (urine, seminal fluid, cerebrospinal fluid), blood smear examination for microfilariae and malarial parasite, stool examination for protozoan and helminthic intestinal parasites and causation, pathogenesis, and symptoms of AIDS, TB and Hepatitis
- understand the importance, ranges and tests for Glucose, Urea and Cholesterol in health and disease and interpretation of deviant values, the physiology, biochemistry, range and significance of enzymes ALT and AST, Laboratory Pregnancy Tests, and significance of PAP Smear

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall knowledge relating to Good Lab Practices, including sterilization and biomedical waste management, preparation of lab reagents, blood collection techniques, haematology, immunohaematology, parameters relating to body fluids (urine, cerebrospinal fluid and seminal fluid), smear analysis blood parasites (Plasmodium, Microfilariae), motion analysis, pathology and symptoms relating to Acquired Immunodeficiency Syndrome, Hepatitis and Tuberculosis, Tests for Glucose, Urea and Cholesterol and the interpretation of results, physiology and biochemistry of AST and ALT, Laboratory Pregnancy Tests and PAP smear	K1
CO2	describe Good Lab Practices, including sterilization procedures and biomedical waste management, preparation of lab reagents, blood collection techniques, aspects of haematology and immunohaematology, parameters relating to body fluids (urine, cerebrospinal fluid and seminal fluid), smear analysis of blood parasites (Plasmodium, Microfilariae), motion analysis, pathology and symptoms relating to Acquired Immunodeficiency Syndrome, Hepatitis and Tuberculosis, Tests for Glucose, Urea and Cholesterol and the interpretation of results, physiology and biochemistry of AST and ALT, Laboratory Tests for Pregnancy and PAP smear	K2

COs	DESCRIPTION	CL
CO3	Apply the knowledge obtained to implement Good Lab Practices including sterilization procedures and biomedical waste management, preparation of lab reagents, explain various blood collection techniques, aspects of haematology and immunohaematology, parameters relating to body fluids (urine, cerebrospinal fluid and seminal fluid), smear analysis of blood parasites (Plasmodium, Microfilariae), motion analysis, pathology and symptoms relating to Acquired Immunodeficiency Syndrome, Hepatitis and Tuberculosis, Tests for Glucose, Urea and Cholesterol and the interpretation of results, physiology and biochemistry of AST and ALT, Laboratory Tests for Pregnancy and PAP smear	K3
CO4	Analyse the various Good Lab Practices, Blood collection techniques, aspects of haematology and immunohaematology, parameters relating to body fluids (urine, cerebrospinal fluid and seminal fluid), smear analysis of blood parasites (Plasmodium, Microfilariae), motion analysis, pathology and symptoms relating to Acquired Immunodeficiency Syndrome, Hepatitis and Tuberculosis, Tests for Glucose, Urea and Cholesterol and the interpretation of results, physiology and biochemistry of AST and ALT, Laboratory Tests for Pregnancy and PAP smear	K4
CO5	Evaluate the various Good Lab Practices, Blood collection techniques, aspects of haematology and immunohaematology, parameters relating to body fluids (urine, cerebrospinal fluid and seminal fluid), smear analysis of blood parasites (Plasmodium, Microfilariae), motion analysis, pathology and symptoms relating to Acquired Immunodeficiency Syndrome, Hepatitis and Tuberculosis, Tests for Glucose, Urea and Cholesterol and the interpretation of results, physiology and biochemistry of AST and ALT, Laboratory Tests for Pregnancy and PAP smear	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Good Lab Practices (GLP) 1.2 Sterilisation of Laboratory Items - Preparation of Reagents – Preparation of R.B.C & W.B.C. Fluids, Normal Saline, Romanowsky stains (Wright's, Giemsa, Leishman's) 1.3 Venous and Capillary Blood Collection Techniques – Anticoagulants: Modes of Action and Uses 1.4 Biomedical Wastes: Classification, Characteristics, Potential Health Hazards, Management	K1 - K5	11	1 - 5
2	2.1 Red Blood Corpuscle: Structure (Normal & Abnormal), Erythropoiesis, Total Count, Packed Cell Volume - Wintrobe's and Microhaematocrit Techniques, Total Reticulocyte Count - Erythrocyte Sedimentation Rate: Westergren's Method 2.2 Haemoglobin Estimation: Sahli's, Drabkin's Methods (Practicals) - Types of Anaemia – Polycythemia	K1 - K5	14	1 - 5

	2.3 White Blood Corpuscle: Types, Leucopoiesis, Total W.B.C Count - Preparation of Blood Smear For Differential Count - Leucocytosis –Leukemia - Leucopenia 2.4 Blood Platelets – Thrombopoiesis - Platelet Count			
3	3.1 Immunohaematological Studies: importance - Blood Groups and Rh-Types, methodology of blood grouping and Rh typing 3.2 Transfusion of Blood: Criteria for blood donation, Tests For Compatibility and Complications due to transfusion 3.3 Transfusion of blood components: Plasma and Blood cells - Artificial Blood substitutes 3.4 Blood Coagulation: Factors, Process (Enzyme Cascade) – Bleeding Time - Clotting Time - Prothrombin Time (Practicals)	K1 - K5	13	1 - 5
4	4.1 Urine: Macroscopic, Microscopic and Chemical Analysis 4.2 Examination of Blood Smear for Malarial Parasites and Microfilariae – Motion Analysis for Common Protozoan and Helminthic Intestinal Parasites 4.3 Analysis of Cerebrospinal Fluid and Seminal Fluid: Macroscopic, Microscopic and Chemical 4.4 Mode of Infection, Pathological Changes, Symptoms and testing for Acquired Immuno Deficiency Syndrome (AIDS), Hepatitis and Tuberculosis (TB)	K1 - K5	14	1 - 5
5	5.1 Test for Glucose, Urea and Cholesterol: Ranges in Health and Disease and Interpretation (Practical) 5.2 Physiology and Biochemistry of the Serum Enzymes Aspartate Transaminase (AST) and Alanine Transaminase (ALT) 5.3 Laboratory Pregnancy Tests –history, immunological tests - PAP Smear and its significance 5.4 Visit to laboratory	K1 - K5	13	1 - 5

BOOKS FOR STUDY

Maheshwari, Nanda (2023). *Handbook of Medical Laboratory Technology. (A book for DMLT students)*. First Edition. Jaypee Brothers Medical Publishers

Sood, R. (2015). *Concise Book of Medical Laboratory Technology: Methods and Interpretations*. New Delhi: Jaypeedigital.

BOOKS FOR REFERENCE

Baker, F.J., Silvertown, R.E. & Pallister, C.J. (2001). *Baker and Silvertown's Introduction to Medical Laboratory Technology*. London: Hodder Arnold.

Bauer, J.D. (1990). *Clinical Laboratory Methods*. New Delhi: B.I.

Estridge, B.H., Reynolds, A.P. & Walters, N.J. (2002). *Basic Medical Laboratory Techniques*. Africa and Australia: Delmar Thomas Learning.

Hall, J. E. (2016). *Guyton and Hall Text Book of Medical Physiology*. UK: Elsevier McPherson

R.A & Pincus, M. R. (2011). *Henry's Clinical Diagnosis and Management by Laboratory Methods*. Philadelphia: W.B. Saunders.

Ramakrishnan, S & Sulochana, K. N. (2012). *Manual of Medical Laboratory Techniques*. New Delhi: Jaypee Brothers Medical.

Raphael, S.S. (1983). *Lynch's Medical Laboratory Technology*. Philadelphia: W.B. Saunders Co.

JOURNALS

Journal of Clinical Laboratory Analysis American
Journal of Medical Technology

WEB RESOURCES

www.csmls.org <http://www.nlm.nih.gov/medlineplus>
Udemy (paid course) on Medical Lab Technician
<https://www.udemy.com/course/medical-lab-technician/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	5 x 2 = 10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, Give the range for, Give the diagnostic significance for etc.)	K2 (10 marks)	5 x 2 = 10	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	1 x 10 = 10	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	1 x 15 = 15	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:

Seminar/Quiz/Case studies/Poster presentation

Two to three components will be prescribed.**Total Marks: 50****End- Semester Examination: Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	$10 \times 2 = 20$	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, Give the range for, Give the diagnostic significance for etc.)	K2 (20 marks)	$10 \times 2 = 20$	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	$2 \times 10 = 20$	2 K3 question	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	$2 \times 15 = 30$	2 K4 question	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	$2 \times 5 = 10$	2 K5 question	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/ME/LT45												
	Course Title: MEDICAL LABORATORY TECHNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 2	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 3	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 4	3	3	3	2	3	2	3	1	3	2	3	3	3
CO 5	3	3	3	2	3	2	3	1	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

ENVIRONMENTAL BIOTECHNOLOGY

CODE:23ZL/ME/EB45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

To enable students to

- comprehend the need for environmental monitoring and processes for environmental sampling and analysis, monitoring pollution and toxicity testing using biological material such as bioindicators, biomarkers and biosensors
- understand the types of pollutant synthetic compounds and inorganic wastes in the environment, and bioaugmentation and bioremediation strategies with case studies
- comprehend the methods for treatment of sewage, agricultural wastes and industrial effluents
- understand the types, significance and mode of action of biofertilizers and biopesticides and types, significance and production of biofuels
- comprehend the need for recovery of resources including the methodology for oil recovery and metal bioleaching through biohydrometallurgy

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	recall the significance of environmental monitoring, processes for environmental sampling and analysis, pollution monitoring, toxicity testing, types of pollutant synthetic compounds and inorganic wastes in the environment, bioaugmentation and bioremediation strategies, methodology for treatment of sewage, agricultural wastes and industrial effluents, types, significance and mode of action of biofertilizers, biopesticides and types, significance and production of biofuels and recovery of resources such as oil and metal through sustainable methods	K1
CO 2	discuss the significance of environmental monitoring, processes for environmental sampling and analysis, pollution monitoring, toxicity testing, types of pollutant synthetic compounds and inorganic wastes in the environment, bioaugmentation and bioremediation strategies, methodology for treatment of sewage, agricultural wastes and industrial effluents, types, significance and mode of action of biofertilizers, biopesticides and types, significance and production of biofuels and recovery of resources such as oil and metal through sustainable methods	K2
CO 3	apply the knowledge gained to explain the need for environmental monitoring, processes for environmental sampling and analysis, pollution monitoring, toxicity testing, types of pollutant synthetic compounds and inorganic wastes in the environment, bioaugmentation and bioremediation strategies, methodology for treatment of sewage, agricultural wastes and industrial effluents, types, significance and mode of action of biofertilizers, biopesticides and types, significance and production of biofuels and recovery of resources such as oil and metal through sustainable methods	K3

COs	DESCRIPTION	CL
CO 4	analyse the need for environmental monitoring, processes for environmental sampling and analysis, pollution monitoring, toxicity testing, types of pollutant synthetic compounds and inorganic wastes in the environment, bioaugmentation and bioremediation strategies, methodology for treatment of sewage, agricultural wastes and industrial effluents, types, significance and mode of action of biofertilizers, biopesticides and types, significance and production of biofuels and recovery of resources such as oil and metal through sustainable methods	K4
CO 5	evaluate the need for environmental monitoring, processes for environmental sampling and analysis, pollution monitoring, toxicity testing, types of pollutant synthetic compounds and inorganic wastes in the environment, bioaugmentation and bioremediation strategies, methodology for treatment of sewage, agricultural wastes and industrial effluents, types, significance and mode of action of biofertilizers, biopesticides and types, significance and production of biofuels and recovery of resources such as oil and metal through sustainable methods	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction – Need for Monitoring 1.2 Sampling and Analysis – Air, Soil and Water 1.3 Determination of Biodegradable Organic Material - Monitoring Pollution 1.4 Toxicity Testing Using Biological Material - Bio indicators, Biomarkers and Biosensors	K1 - K5	13	1-5
2	2.1 Introduction: Synthetic Compounds – Petrochemical Compounds and Inorganic Wastes in The Environment (A Brief Outline), Emerging Pollutants: Microplastics 2.2 Bioaugmentation using Genetically Modified Organisms - Bioremediation Strategies: Phytoremediation and Bioaugmentation, Metal and gaseous Bioremediation 2.3 Bioremediation Techniques 2.4 Case Studies : Taj Mahal(Agra) and Charminar(Hyderabad), Exxon Valdez Oil Spill	K1 - K5	14	1-5
3	3.1 Sewage Treatment Methods: STP - Sludge Treatment and Disposal; Anaerobic Digestion 3.2 Treatment of Agricultural Wastes - Removal of Nitrogen and Phosphorus 3.3 Treatment of Industrial Effluents: ETP - Distillery, Dairy, Tannery, Textile and Sugar Industries	K1 - K5	15	1-5
4	4.1 Biofertilizers in an Agro Ecosystem 4.2 Biopesticides: Types and Mode of Action of <i>Bacillus thuringiensis</i> 4.3 Bioenergy: Definition, Need and Biofuels (Biogas, Biodiesel, Ethanol and Hydrogen)	K1 - K5	12	1-5

UNIT	CONTENT	CL	HRS	CO
5	5.1 Introduction – Need for Recovery of Resources 5.2 Oil Recovery: Enhanced Oil Recovery and Microbially Enhanced Oil Recovery 5.3 Biohydrometallurgy: Definition, Importance and Bioleaching (Extraction of Copper, Uranium and Gold)	K1 - K5	11	1-5

BOOKS FOR STUDY

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BOOKS FOR REFERENCE

Allen K. (2005). *Environmental Biotechnology*. New Delhi : CBS Publishers

Bruce Rittmann and Perry Mc Carty, (2017). *Environmental Biotechnology: Principles and Applications*, Chennai: Tata Mc Graw Hill

Chatterji, A.K. (2011). *Introduction to Environmental Biotechnology*, (3rd ed.).Delhi : PHI Publication

Evans, Gareth, M. and Judith C. Furlong, (2012). *Environmental Biotechnology: Theory and Applications*. New Jersey: Wiley – VCH

Hans – Joachim Jordening and Joseph Winter, (2005). *Environmental Biotechnology: Concepts and Applications*. New Jersey: Wiley – VCH

Indu Shekhar Thakur, (2013). *Environmental Biotechnology-Basic Concepts and Applications* (2nd ed.).New Delhi: TK Publishers

Mishra, C. S. K and Asha A. Juarkar, (2007). *Environmental Biotechnology*. Delhi : P. H. Corporation

Mohapatra, Pradipta Kumar, (2006). *Textbook of Environmental Biotechnology*. New Delhi: I.K.International

Pramod Kumar and Vipin Kumar, (2019). *Textbook of Environmental Biotechnology*, Delhi : WPI Publishers

Viswanath Buddolla, (2016). *Environmental Biotechnology: Basic Concepts and Applications*, New Delhi: Narosa Publisher

JOURNALS

Journal of Environmental Biotechnology

International Journal of Environmental Biotechnology

WEB RESOURCES

<http://www.environmentalbiotechnology.org/>

<http://www.biodesing.asu.edu>

NPTEL course on Environmental Biotechnology

https://onlinecourses.nptel.ac.in/noc21_bt41/preview

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	5 x 2 = 10	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	5 x 2 = 10	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	1 x 10 = 10	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	1 x 15 = 15	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	1 x 5 = 5	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Seminars/Quiz/Assignments/Case studies/Project

Two to three components will be prescribed.

End- Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 = 20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	10 x 2 = 20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 = 20	2 K3 question	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 = 30	2 K4 question	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 question	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/ME/EB45												
	Course Title: ENVIRONMENTAL BIOTECHNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	3	1	3	2	2	2	3
CO 2	3	3	3	2	2	2	3	1	3	2	2	2	3
CO 3	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 4	3	3	3	2	3	2	3	1	3	3	2	3	3
CO 5	3	3	3	2	3	2	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

INTRODUCTION TO MARINE BIOLOGY

CODE:23ZL/ME/IB45

CREDITS: 5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

To enable students to

- understand the geologic history of oceans, formation of beaches and coastlines, different types of oceanic currents, marine instrumentation, oceanic resources and exploration
- comprehend aspects of marine biogeography, and marine and coastal biodiversity
- understand the threats faced by marine biodiversity
- comprehend the importance and types of mariculture, marine ornamental organisms and marine fossils and marine protected areas
- understand the types and significance of marine microbes and products of various marine organisms such as probiotics, drugs, biofilms and toxins and their applications

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic aspects of oceanography including the history of oceans and seas, provinces of the ocean floor, oceanic currents, types of waves and tides, instrumentation, expeditions, oceanic resources, oceanic biogeography, marine and coastal biodiversity and adaptations, threats faced by marine biodiversity, mariculture, marine fossils, and marine microbes, probiotics, drugs, biofilms and toxins and their applications	K1
CO2	describe the history of seas and oceans, provinces of the ocean floor, formation of beaches and coastlines, types of waves and tides, instruments used, expeditions, oceanic resources and biogeography, marine and coastal biodiversity and their adaptations and threats faced, marine fossils, aspects of mariculture, types and significance of marine microbes, importance of biofilms and probiotic bacteria, and drugs and toxins produced by marine animals	K2
CO3	Apply the knowledge gained to discuss aspects of oceanography, instruments used, formation of beaches and coastlines, oceanic resources and biogeography, oceanic expeditions, marine and coastal biodiversity and adaptations and threats faced, marine fossils, aspects of mariculture and types and significance of marine microbes, importance of biofilms and probiotic bacteria, and drugs and toxins produced by marine animals	K3

COs	DESCRIPTION	CL
CO4	Analyse aspects of oceanography, its timeline, instruments used, formation of beaches and coastlines, resources from the ocean, biogeography, results of ocean expeditions, the adaptations seen among marine and coastal fauna and the threats they face, fossilization and types of marine fossils, aspects of mariculture, types and significance of marine microbes, importance of biofilms and probiotic bacteria, and drugs and toxins produced by marine animals	K4
CO5	Evaluate aspects of oceanography, its timeline, instruments used, formation of beaches and coastlines, resources from the ocean, biogeography, ocean expeditions, the adaptations seen among marine and coastal fauna and the threats they face, fossilization and types of marine fossils, types and significance of marine microbes, importance of biofilms and probiotic bacteria, and drugs and toxins produced by marine animals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Oceanography - Geologic history of oceans – seas – continental shelf: formation of beaches and coastlines - continental slope 1.2 Oceanic currents – oceanic water masses and circulation – waves and tsunamis – tides: origin – hydrothermal vents 1.3 Marine instrumentation: echo sounder, side scanning sonar, marine navigator, underwater camera 1.4 Ocean resources and exploration – expeditions: the Challenger expeditions	K1 - K5	13	1 - 5
2	2.1 Marine biogeography - latitudinal gradient, oceanic differences in species diversity, geographical barriers, human-created barriers - Coastal zones: intertidal, littoral, sublittoral 2.2 Marine biodiversity: definition, importance, examples from invertebrates and chordates - Pelagic organisms: characteristic features, types and significance of plankton, characteristic features, types and significance of nekton - benthic fauna: definition, characteristic features and examples, factors affecting marine faunal populations 2.3 Coastal biodiversity: seagrass and other halophytes: Mangroves, coral reefs and kelp forests: types, characteristic features, significance, threats and associated fauna associated 2.4 Adaptations and Unique Behaviour: Marine Reptiles, Sea Birds and Marine mammals	K1 - K5	15	1 - 5

UNIT	CONTENT	CL	HRS	CO
3	3.1 Threats to marine biodiversity: physical alteration and habitat loss, overexploitation, Pollution, alien species climate change, acidification 3.2 Ocean pollution: kinds and quantities of pollutants entering oceans – sewage and nutrients from rivers and estuaries – trace metals – heavy metals - nuclear waste – fate of pollutants – toxic effects 3.3 Plastic pollution in the marine environment: nature of plastics, impact – oil spills, impact 3.4 Biofouling: definition, biofouling organisms, problems due to biofouling – pollution due to antifouling paints – biofouling control – Case study	K1 - K5	15	1 - 5
4	4.1 Mariculture: definition, importance, present status in India, types of culture (general)-commercial marine fishery sources of India and Tamil Nadu 4.2 Marine ornamental aquatic organisms: crustaceans, molluscs, fishes – their suitability for aquaria 4.3 Marine fossils: Coelenterates , Trilobites, Gastropods, Cephalopods, Pelecypods, Brachiopods, Echinoderms and Ichthyosaurs 4.4 Marine Protected Areas: importance, example - Gulf of Mannar National Park	K1 - K5	11	1 - 5
5	5.1 Marine microbes: bacteria, fungi and protozoans 5.2 Microbial biofilms – carbohydrate products and derivatives – nitrogenous compounds – Production and applications of marine microbial products – pigments: Astaxanthin, β carotene – bioadhesives and thermostable enzyme – Probiotic bacteria and their importance in aquaculture. 5.3 Marine Pharmaceuticals: Sources, Importance, Antibiotic compounds, Steroids, Carotenoids and Sterols from marine animals 5.4 Toxins from marine animals: Types and Functional properties – Venom in marine animals: sea snakes and fishes	K1 - K5	11	1 - 5

BOOKS FOR STUDY

Biswas, K.P. (2013). *Marine Biology*. New Delhi: Daya Publishing House.

BOOKS FOR REFERENCE

- Athithan, S. (2021). *Coastal Aquaculture and Mariculture*. CRC Press.
- Barnes, R.S.K and Hughes, R.N. (1999). *An Introduction to Marine Ecology*. Third Edition. New Jersey: Blackwell Science.
- Beiras, R. (2018). *Marine Pollution. Sources, Fate and Effect of Pollutants in Coastal Ecosystems*. Netherlands: Elsevier.
- Castro, Peter and Huber, Michael E. (2016). *Marine Biology*. Tenth Edition. McGraw- Hill Education.
- Denny, Mark (2008). *How the Ocean Works. An Introduction to Oceanography*. Princeton University Press.
- Karleskint, George Jr., Turner, Richard and Small, James W., Jr (2010). *Introduction to Marine Biology*. Third Edition. Brooks/Cole Cengage Learning
- Kim, S. K. (2015). *Handbook of Marine Biotechnology*. U.K : Springer Handbook.
- Niver, H. M. (2017). *Marine Fossils*. USA: Powerkids.
- Pinet, Paul R. (2016). *Invitation to Oceanography*. Seventh Edition. Jones & Bartlett Learning
- Tait, R.V and Dipper, F. A. (1998). *Elements of Marine Ecology*. Fourth Edition. Butterworth Heinemann
- Trujillo, A. P and Thurman, H. V. (2011). *Essentials of Oceanography*. Tenth Edition. Pearson Education Inc.

JOURNALS

Journal of Marine Biology
Marine Biodiversity

WEB RESOURCES

www.life.bio.sunysb.edu/marinebio
www.worldoceanobservatory.org/content/online-resources-marine-biology
Swayam Course on Marine Biotechnology
https://onlinecourses.swayam2.ac.in/cec23_bt22/preview

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (10 marks)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (10 marks)	$5 \times 2 = 10$	5 K2 questions	5 K2 questions
C (Answer any one) Essay	K3 (10 marks)	$1 \times 10 = 10$	1 K3 question	2 K3 questions
D (Answer any one) Essay	K4 (15 marks)	$1 \times 15 = 15$	1 K4 question	2 K4 questions
E (Answer any one) Paragraph	K5 (5 marks)	$1 \times 5 = 5$	1 K5 question	2 K5 questions
Total		50	13	16

Other Components:**Total Marks: 50**

Quiz /Project/Poster/Presentation/Scrapbook/Report

Two to three components will be prescribed.

End- Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Mention the contribution of, Define, List, Give an example, etc.)	K1 (20 marks)	10 x 2 = 20	10 K1 questions	10 K1 questions
B (Answer all Questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, etc.)	K2 (20 marks)	10 x 2 = 20	10 K2 questions	10 K2 questions
C (Answer any two) Essay	K3 (20 marks)	2 x 10 =20	2 K3 questions	3 K3 questions
D (Answer any two) Essay	K4 (30 marks)	2 x 15 =30	2 K4 questions	3 K4 questions
E (Answer any two) Paragraph	K5 (10 marks)	2 x 5 = 10	2 K5 questions	3 K5 questions
Total		100	26	29

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ZL/ME/IB45												
	Course Title: INTRODUCTION TO MARINE BIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	3	1	3	2	2	2	3
CO 2	3	3	3	2	2	2	3	1	3	2	2	2	3
CO 3	3	3	3	2	2	2	3	1	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by Department of Zoology to Students of
B.A. / B.Sc. / B.Com. /B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

PET CARE

CODE:23ZL/GE/PC22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

To enable students to

- understand aspects of animal welfare, welfare assessment, normal and abnormal behaviour in animals, laws and licenses, and animal charities and societies
- comprehend aspects of caring for fishes and birds including selection, maintenance, feed and, symptoms and treatment of common diseases
- understand aspects of caring for cats and dogs including selection, maintenance, feed and, symptoms and treatment of common diseases of cats and dogs, and the causes and prevention of zoonotic diseases

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall aspects of animal welfare, welfare assessment, normal and abnormal behaviour in animals, laws and licenses, animal charities and societies; caring for fishes, birds, cats and dogs including selection, maintenance, feed and, symptoms and treatment of common diseases and the causes and prevention of zoonotic diseases	K1
CO2	describe aspects of animal welfare, welfare assessment, normal and abnormal behaviour in animals, laws and licenses, animal charities and societies; caring for fishes, birds, cats and dogs including selection, maintenance, feed and, symptoms and treatment of common diseases and the causes and prevention of zoonotic diseases	K2
CO3	explain aspects of animal welfare, welfare assessment, normal and abnormal behaviour in animals, laws and licenses, animal charities and societies; caring for fishes, birds, cats and dogs including selection, maintenance, feed and, symptoms and treatment of common diseases and the causes and prevention of zoonotic diseases	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1.	1.1 Science, Ethics, Law and Welfare Assessment of Animals – Mental, Physical and Natural Assessment of Welfare 1.2 Five Freedoms – Normal and Abnormal Behaviour in Pet Animals 1.3 Laws and Licenses – Animal Charities and Societies: RSPCA, WSPA, Blue Cross – Pet Trade – Trafficking in pets 1.4 Zoonotic diseases: causes and prevention	K1- K3	8	1 -3
2.	2.1 Care of fish – Fish Selection – Types of Fish (Tropical, Marine, Cold Water) - Maintaining aquaria: Tanks, Size, Cost, Pumps, Lighting, Water Quality Management, Feed 2.2 Symptoms and treatment of Common diseases in Pet Fish (fungal, bacterial, parasites, environmental) 2.3 Breeds of Birds (e.g., Parrots, Pigeons, Love Birds) – Bird Selection - Containment (Aviaries: selection, design, size, management) – Feed – Watering – Grooming – Hygiene – Catching and Restraining 2.4 Symptoms and treatment of Common diseases in Pet Birds	K1- K3	9	1 -3
3.	3.1 Breeds of Cats– Selection of Cats - Cat care: Containment, Nutrition, Grooming and Breeding 3.2 Common infections in Cats and their treatment 3.3 Breeds of Dogs (Pure and Mixed) - Selection of Dogs – Dog Care: Containment, Nutrition and Grooming – Breeding 3.4 Common infections in Dogs and their treatment	K1- K3	9	1 -3

BOOKS FOR REFERENCE

Alderton, David. (2016). *The Illustrated Practical Guide to Small Pets & Pet Care: Hamsters, Gerbils, Guinea Pigs, Rabbits, Birds, Reptiles, Fish*. Ohio: Lorenz Books.

Andrews, Chris, (2011). Exell Adrian and Carrington, Neville. *Manual of Fish Health*. U.K: Interpet publishing

Brown, Andi. (2006). *The Whole Pet Diet. Eight Weeks to Great Health for Dogs and Cats*. California: Celestial Arts.

Gerstenfeld, Sheldon, L. (1989). *The Bird Care Book*. Massachusetts: Lifelong Books.

Hines, Shannon.(2007). *Holistic Pet Care: For the Responsible Pet Owner*. Colorado: Outskirts Press.

Puotinen , C.J. (2000). *The Encyclopedia of Natural Pet Care*. New York : Mc Graw Hill.

Shojai, Amy.(2017). *Complete Kitten Care*. London:Furry Muse Publishing.

Silverstein, Deborah C. and Hopper, Kate (ed.). (2015) *Small Animal Critical Care Medicine*. Amsterdam: Elsevier Inc.,

Levin, Caroline D. Dogs,(2001). *Diet and Disease – An Owner’s Guide to Diabetes Mellitus, Pancreatitis, Cushings Disease and More*. Nigeria: Lantern Publications.

WEB RESOURCES

www.bluecrossofindia.org

www.peta.org

JOURNALS

Pet Boarding and Daycare Magazine

Journal of Exotic Pet Medicine

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 50 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective type (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (6 marks)	6 x 1 = 6	6 K1 Questions	6 K1 Questions
B (Answer any three questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, Describe, etc.)	K2 (9 marks)	3 x 3 = 9	3 K2 Questions	5 K2 Questions
C Answer any two questions	K3 (10 marks)	2 X 5 = 10	2 K3 Questions	3 K3 Questions
Total		25	11	14

Other Components:

Total Marks : 25

Assignment / Poster making / Scrapbook

Two or three components will be prescribed.

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by Department of Zoology to Students of
B.A. / B.Sc. / B.Com. /B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

NUTRITION AND THERAPEUTIC DIET

CODE:23ZL/GE/ND22

CREDITS:2

LTP:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

To enable students to

- Understand the sources and functions of nutrients, importance of balanced diet and malnutrition, causes and management of eating disorders
- Comprehend the concept of therapeutic diet and diet management of Diabetes, Cardiovascular diseases, Anorexia nervosa, Bulimia nervosa and addictive behaviours
- Plan and prepare a meal menu and calculate calories

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	Recall the sources and functions of nutrients, importance of balanced diet and malnutrition, causes and management of eating disorders, concept and types of therapeutic diets and diet management of Diabetes, Cardiovascular diseases, Anorexia nervosa, Bulimia nervosa and addictive behaviours, meal menu for various categories and method of calorie calculation	K1
CO2	Describe the sources and functions of nutrients, importance of balanced diet and malnutrition, causes and management of eating disorders, concept and types of therapeutic diets and diet management of Diabetes, Cardiovascular diseases, Anorexia nervosa, Bulimia nervosa and addictive behaviours, meal menu for various categories and method of calorie calculation	K2
CO3	Apply the knowledge gained to discuss the sources and functions of nutrients, importance of balanced diet and malnutrition, causes and management of eating disorders, concept and types of therapeutic diets and diet management of Diabetes, Cardiovascular diseases, Anorexia nervosa, Bulimia nervosa and addictive behaviours, method of calorie calculation and to prepare meal menu for various categories	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1.	1.1 Sources and Functions of Macro nutrients and Micro nutrients, Antioxidants and Fiber 1.2 Balanced Diet-Food Groups and Food Guide - Nutrigenomics 1.3 Malnutrition: Protein Energy Malnutrition (PEM), Iodine Deficiency, Vitamin A Deficiency and Iron Deficiency - Eating disorders	K1- K3	10	1-3
2.	2.1 Diet Therapy: Purpose and Principles - Food Acceptance in Illness - Therapeutic Diets –Tube Feeding – Parenteral Feeding 2.2 Diet Management: Diabetes Mellitus, Cardiovascular Diseases, Anorexia nervosa and Bulimia nervosa 2.3 Diet Therapy for Addictive Behaviors: Alcoholism	K1- K3	9	1-3
3.	3.1 Meal Planning – Nutritious Food (Breakfast, Lunch and Dinner) – Calculation of Calories 3.2 Preparation of Low Cost Nutritious Food - Practicals 3.3 Nutritious Food for Anaemic Individuals, Adolescents, Pregnant Women and Elderly Persons	K1- K3	7	1-3

BOOKS FOR REFERENCE

Brown, Judith E. (2003). *Nutrition Now*. Canada: Wadsworth Thomson Learning

Caroll A. Lutz, (2015) *Nutrition and Diet therapy*, (6th ed)., Philadelphia: F.A. Davis Company

Insel, Paul.R. Elaine Turner and Don Ross. (2007). *Discovering Nutrition*. Massachusetts: Jones and Bartlett

Krause, (2016) *Food and Nutrition Therapy*, (14th ed)., Amsterdam: Elsevier

Mudambi, S.R. and M.V. Rajagopal. (2018). *Nutrition and Diet therapy*. Chennai: New Age International

Rosalinda T. Laguna and Virginia S Claudio. (1996) *Nutrition and Diet therapy Reference Dictionary*, (4th ed) , London: Chapman & Hall

Sangeeta Karvita, (2010) *Nutrition and Diet therapy*, Biotech Publisher Srilakshmi, B. (2006). *Dietetics*. Chennai: New Age International

Wardlaw, Gordon M. and Jeffrey S. Hampl (2007). *Perspectives in Nutrition*. New York: McGraw Hill

WEB RESOURCES

<http://www.eatright.org/>
<http://www.who.int/nutrition/en/>

JOURNALS

Journal of Nutritional Disorders and Therapy
Journal of Food Science and Nutrition Therapy

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 25****Duration: 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (6 marks)	$6 \times 1 = 6$	6 K1 Questions	6 K1 Questions
B (Answer any three questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, Describe, etc.)	K2 (9 marks)	$3 \times 3 = 9$	3 K2 Questions	5 K2 Questions
C (Answer any two questions)	K3 (10 marks)	$2 \times 5 = 10$	2 K3 Questions	3 K 3 Questions
Total		25	11	14

Other Components:**Total Marks : 25**

Assignment /Preparation of low cost nutritious food /Preparation of specific diet- Meal Planning/Scrap book

Two or three components will be prescribed.

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by Department of Zoology to students of
B.A. / B.Sc. (except B.Sc. Plant Biology and Biotechnology) / B.Com.
/B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

GENES, DISEASES AND SOCIETY

CODE:23ZL/GE/GD22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

To enable students to

- understand the role of gametes in heredity, structure of DNA, Mendelian inheritance, pedigree analysis, lethal genes, multiple allelic and polygenic inheritance
- comprehend the different patterns of genetic inheritance, disorders with genetic predisposition, metabolic disorders, impact of consanguineous marriage and significance of genetic counselling
- acquire knowledge on the recent advances in the field of Genetics and their ethical and social implications

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
1	recall the role of gametes, structure of DNA, Mendelian inheritance, pedigree analysis, multiple allelic and polygenic inheritance, lethal genes, patterns of genetic inheritance, disorders with genetic predisposition, metabolic disorders, impact of consanguineous marriage, significance of genetic counselling, recent advances in the field of Genetics and their ethical and social implications	K1
2	explain the role of gametes, structure of DNA, Mendelian inheritance, multiple allelic and polygenic inheritance, types and significance of lethal genes, patterns of genetic inheritance, disorders with genetic predisposition, metabolic disorders, impact of consanguineous marriage, significance of genetic counselling, recent advances in the field of Genetics and their ethical and social implications	K2
3	apply the knowledge gained to discuss the role of gametes, structure of DNA, concepts of Mendelian genetics, multiple allelic and polygenic inheritance, types and significance of lethal genes, patterns of genetic inheritance, disorders with genetic predisposition, metabolic disorders, impact of consanguineous marriage, significance of genetic counselling, recent advances in the field of Genetics and their ethical and social implications	K3

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction - Human Gametes and their Role in Heredity – DNA the Genetic Material - Mendelian Inheritance: Monohybrid and Dihybrid Cross Experiments - Identification of Mendelian Traits in Humans - Pedigree Analysis and its Applications 1.2 Lethal Genes: Definition, Types and Inheritance 1.3 Multiple Allelic Inheritance: ABO and Rh Blood Types in Humans – ABO Blood Grouping and Rh Typing, Practical – Case Study/Problem Solving - Polygenic Inheritance (Skin Colour in Humans)	K1 -K3	9	1 - 3
2	2.1 Autosomal Recessive Inheritance (Albinism) - Autosomal Dominant Inheritance (Familial Hypercholesterolemia)- X-Linked Dominant Inheritance (Hypophosphatemia) – X-Linked Recessive Inheritance (Haemophilia) – Y- Linked Inheritance (Hypertrichosis) – Mitochondrial Inheritance (Kearns Sayre Syndrome) 2.2 Disorders with Genetic Predisposition: Diabetes, Breast Cancer, and Alzheimer’s Disease - Chromosomal Disorders: Down’s Syndrome, Turner’s Syndrome, Klinefelter’s Syndrome - Metabolic Disorders: Phenylketonuria, Huntington Disease and Lactose Intolerance 2.3 Consanguineous Marriage and its Impact in the Society- Genetic Counselling	K1 -K3	10	1 - 3
3	3.1 Applications of Genetic Engineering: Genetically Modified Organisms, Gene Therapy and Gene Cloning 3.2 Predictive Genetic Testing: DNA Fingerprinting (Case Study) 3.3 Ethical, Legal and Societal Issues (ELSI) related to techniques in Genetics	K1 -K3	7	1 - 3

BOOKS FOR REFERENCE

Cummings, M. R. (2012). Human Heredity – Principles and issues.(10th ed.) Canada: Thomson Brooks/Cole

Gardener A & Daves T. (2012). Human Genetics. (2nd ed.). New Delhi: Viva Books.

Hartl, D. L. (2013). *Essential Genetics & Genomics*. (7th ed.). USA: Jones & Bartlett Learning.

Kelly, E. B. (2013). *Encyclopaedia of Human Genetics & Diseases. Volumes I & II*. Connecticut: Greenwood Publishing House.

Klug, W. S., Cummings, M. and Spencer, C. (2018). *Concepts of Genetics*.(12th ed.). New Jersey: Pearson Education

Pierce, B. A. (2016). *Genetics – A conceptual approach*. (6th ed.). New York: W. H Freeman.
 Snustad, P. D. and Simmons, M. J. (2012). *Principles of Genetics*. (6th ed.) New York: John Wiley.
 Yashion, R. & Cummins. M. *Human Genetics & Society*. (2nd ed.) 2012.

WEB RESOURCES

www.ncbs.res.in
 www.omim.org

JOURNAL

Journal of Human Genetics
 Journal of Genetics and
 Genomics

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (6 marks)	6 x 1 = 6	6 K1 Questions	6 K1 Questions
B (Answer any three questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, Describe, etc.)	K2 (9 marks)	3 x 3 = 9	3 K2 Questions	5 K2 Questions
C (Answer any two questions)	K3 (10 marks)	2 x 5 = 10	2 K3 Questions	3 K 3 Questions
Total		25	11	14

Other Components:

Total Marks: 25

Quiz/Pedigree Chart Construction/Assignment /Case Study Analysis/Problem Solving
Two to three components will be prescribed.

No-End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by the Department of Zoology to
B.A. /B.Sc./ B.Com. /B.V.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

BIOLOGY OF HUMAN REPRODUCTION

CODE:23ZL/GE/HR22

CREDITS :2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

To enable students to

- understand the anatomy and functioning of the human reproductive system, its hormonal control, and phases during reproductive life of human
- comprehend the biological aspects of sexuality, procreation, Fertilization, Implantation, Placentation, Pregnancy, Embryonic and Fetal Development, parturition and lactation, birth defects and fetal loss and the technology relating to prenatal diagnosis, and to understand the aspects relating to consanguinity
- comprehend the causes for male and female Infertility, Sexually Transmitted Diseases, methods for control of fertility and techniques for Assisted Reproductive Technology, Surrogacy and Adoption with associated ethical issues

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the structure and function of the human reproductive system, stages in reproductive life, hormonal control of reproduction, causes for male and female infertility, control of fertility, mechanism of sex determination, embryonic and fetal development, fetal death, parturition, lactation, birth defects, consanguinity, sexually transmitted diseases, Assisted Reproductive Technology, surrogacy and adoption and related ethical issues	K1
CO2	describe the structure and function of the human reproductive system, stages in reproductive life, hormonal control of reproduction, causes for male and female infertility, control of fertility, mechanism of sex determination, embryonic and fetal development, fetal death, parturition, lactation, birth defects, impact of consanguinity, Sexually Transmitted Diseases, methods in Assisted Reproductive Technology, Surrogacy, Adoption and related ethical issues	K2
CO3	apply the knowledge gained to differentiate the structure and functioning of male and female reproductive systems, stages in reproductive life, discuss the causes for male and female infertility and explain the mechanism of sex determination, role of hormones in reproduction, processes of embryonic and fetal development, parturition, lactation, birth defects, impacts of consanguinity, Sexually Transmitted Diseases, methods in Assisted Reproductive Technology, Surrogacy, Adoption and related ethical issues	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Reproductive System: Testis, Testicular Functions, Ovary – Uterine and Ovarian cycle 1.2 Hormonal Control of Reproduction: H-P-G Axis 1.3 Puberty - PMS - Menopause – Andropause 1.4 Male and Female Infertility: Physiological Causes – other causes: smoking, obesity, PCOS, stress, alcoholism, psychoactive drugs	K1-K3	8	1 - 3
	2.1 Procreation – Fertilization – Implantation – Placentation- Embryonic and Fetal Development- Sex Determination 2.2 Prenatal Diagnosis: Invasive and non-invasive methods 2.3 Pregnancy – Parturition - Lactation- Nutritional requirements during pregnancy 2.4 Consanguinity – Fetal Loss - Birth Defects	K1 - K3	9	3
3	3.1 Control of Fertility: Abstinence, Contraception - Medical Termination of Pregnancy 3.2 Sexually Transmitted Diseases: Gonorrhea, Syphilis, Genital Herpes 3.3 Assisted Reproductive Technology: Artificial Insemination, Induced Ovulation, IVF and ET, Cryopreservation, Stem Cell Banking - associated ethical issues 3.4 Surrogate Motherhood - Adoption, and related ethical issues	K1 - K3	9	1 - 3

BOOKS FOR REFERENCE

Cassan, A. (2005). *Human reproduction and Development (Inside the Human Body)*. New York: Chelsea Clubhouse.

Field, M. A. (1990). *Surrogate Motherhood*. Massachusetts: Harvard University.

Gardner, D. K.(2001). *Textbook of Assisted Reproductive Techniques: Laboratory and Clinical Perspectives*. London: Martin Dunitz.

Johnson, M. H. (2018). *Essential Reproduction*. New Jersey: Wiley-Blackwell.

Jones, R. E. (2013). *Human Reproductive Biology*. Amsterdam: Elsevier.

Pinon, R. (2003). *Biology of Human Reproduction*. California: University Science Books.

Tremellon K. and Pearce, K. (2015). *Nutrition, Fertility and Human Reproductive Function*. Florida: CRC Press.

WEB RESOURCES

www.physiologyweb.com

<http://www.visembryo.com/baby/index.html>

NPTEL Course on Basic Biology

<https://archive.nptel.ac.in/courses/122/103/122103039/>

JOURNALS

Journal of Human Reproductive Science

Human Reproduction

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (6 marks)	$6 \times 1 = 6$	6 K1 Questions	6 K1 Questions
B (Answer any three questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, Describe, etc.)	K2 (9 marks)	$3 \times 3 = 9$	3 K2 Questions	5 K2 Questions
C (Answer any two questions)	K3 (10 marks)	$2 \times 5 = 10$	2 K3 Questions	3 K 3 Questions
Total		25	11	14

Other Components:

Total Marks: 25

Quiz/Scrap Book/Assignment/Poster making/ Debate/Essay/Case Study Analysis

Two to three components will be prescribed.

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by the Department of Zoology to
B.A. / B.Sc. / B.Com. /B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

THE FASCINATING WORLD OF INSECTS

CODE:23ZL/GE/FI22

CREDITS :2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

To enable students to

- understand the the scope of entomology and the taxonomic position, evolution, general structure, habits, habitats, morphology, feeding in insects and insects found in the Stella Maris College campus
- comprehend reproduction and development, adaptations and behaviour exhibited by insects in different habitats
- understand the life of social insects, importance of insects in health and disease, their impact and importance in agriculture and on the environment and in biomimicry

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the scope of entomology and the evolution, taxonomic position, habitats, morphology, physiology, behaviour, adaptations, social life and economic importance of insects, their importance in biomimicry and as indicator organisms	K1
CO2	discuss the scope of entomology and aspects of evolution, taxonomic position, habitats, morphology, behaviour, physiology, behaviour, adaptations, social life and economic importance of insects and their importance in biomimicry and as indicator organisms	K2
CO3	apply the knowledge gained to elaborate on the scope of entomology and explain aspects of evolution, taxonomic position, habitats, morphology, behaviour, physiology, behaviour, adaptations, social life, economic importance of insects and their importance in biomimicry and as indicator organisms and identify insects on the Stella Maris College campus	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction: Taxonomic position of insects in the animal world - Evolution of insects – Scope of Entomology 1.2 Diverse habitats and general structure of an insect - Winged and Wingless insects- Insects on the Stella Maris College Campus 1.3 Types of Feeding	K1 - K3	8	1 - 3
2	2.1 Reproduction and development in insects – Metamorphosis: complete and incomplete- Life cycle of butterfly and mosquito 2.2 Special adaptations in land-dwelling and aquatic insects – Nocturnal and Diurnal Insects – Defense Mechanisms: Camouflage, Mimicry, Toxin Production, Thanatosis – Bioluminescence 2.3 Insect Behaviours: Nest making, Courtship, mating - Intra- specific and inter-specific relationships - Other interesting behaviour: leaf mining, mud puddling, mushroom farming, dung rolling, processionary caterpillars, sound production, alarm signals, diapause, insect-plant interactions	K1 - K3	9	1 - 3
3	3.1 Social insects - Social life in honey bees and ants Useful insects: insect pollinators - insect products – Harmful insects: insect pests, insects as vectors of diseases and venomous insects 3.2 What we can learn from Insects: Biomimicry - Insects as indicator organisms, Insects in Literature	K1 - K3	9	1 - 3

BOOKS FOR REFERENCE

Ambrose, D. P. (2010). *The Insects: Beneficial and Harmful Aspects*. Cuttack: Kalyani Publishers.

Chapman, R.F., Simpson, S. J. & Douglas, A. E. (2013). *The Insects. Structure and Function*. Cambridge: Cambridge University Press.

Goff, M. L. (2000). *A Fly for the Prosecution. How Insect Evidence helps Solve Crimes*. Massachusetts: Harvard University Press.

Hoyt, E. & Schultz, T. (1999). *Insect Lives. Stories of Mystery and Romance from a Hidden World*. New Jersey: John Wiley and Sons Inc.

Huis, A. & Tomberlin, J. K. (2017). *Insects as Food and Feed: From Production to Consumption*. Netherlands: Wageningen Academic Publishers.

Iyer, G. (2016). *The Weavers. The Curious World of Insects*. Noida: Harper Collins.

Shaw, S. R. (2015). *Planet of the Bugs. Evolution and Rise of Insects*. Chicago: The University of Chicago Press.

Waldbauer, G.P. (2012). *How not to be Eaten. The Insects Fight Back*. California: University of California Press.

Waldbauer, G. P. (2008). *A Walk around the Pond. Insects in and Over the Water*. Massachusetts: Harvard University Press.

Waldbauer, G. P. (2004). *What Good are bugs? Insects in the Web of Life*. Massachusetts: Harvard University Press.

Wilson, E.O. (1971). *The Insect Societies*. Cambridge: Belknap Press.

WEB RESOURCES

www.insects.orkin.com
www.nationalgeographic.org/topics/insects

JOURNALS

Journal of Insects Journal
of Insect Science

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 25 Duration: 60 mins

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Answer all Questions) Objective (Fill in the blanks, True or False, Mention the function of, Define, List, Give an example, etc.)	K1 (6 marks)	$6 \times 1 = 6$	6 K1 Questions	6 K1 Questions
B (Answer any three questions) (Distinguish, Differentiate, Illustrate, Short answers, Relate, Identify, Comment, Describe, etc.)	K2 (9 marks)	$3 \times 3 = 9$	3 K2 Questions	5 K2 Questions
C (Answer any two questions)	K3 (10 marks)	$2 \times 5 = 10$	2 K3 Questions	3 K 3 Questions
Total		25	11	14

Other Components:

Total Marks: 25

Quiz/Scrap Book/ Assignment / Poster making/Report

Two to three components will be prescribed

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SYLLABUS

(Effective from the academic year 2023 - 2024)

INTRODUCTION TO WILDLIFE BIOLOGY

CODE:23ZL/UI/WB23

CREDITS:3

OBJECTIVES OF THE COURSE

To enable students to

- understand concepts related to ecological habitats and niches, resource partitioning and natural resource management and ecology of landscapes, high altitude and wetland
- comprehend concepts in population dynamics and wildlife population estimation methods
- understand the importance and aspects of Biogeography, wildlife and wildlife Habitats, biodiversity hotspots in India, endemism, salient features of animal groups, man-wildlife interactions and ecological impacts and principles and human dimensions of wildlife management
- comprehend aspects of Wildlife Tourism, Wildlife Crimes and Forensics, Wildlife Trade and associated legislations, role of NGOs, institutions and organizations, planning and execution of field surveys, capture and handling of wild animals, principles of Wildlife Health and wildlife diseases
- understand the need and strategies of conservation, planning and implementing of conservation programmes and wildlife projects, conservation genetics and management, nutrition of captive and free ranging wild fauna, zoo designing and management and husbandry of zoo animals

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

- Identify factors affecting population dynamics, ecological niches and habitats
- Describe various population estimation methods
- Explain important biological characteristics of different faunal groups, proximate and ultimate threats to biodiversity, impact of man-wildlife interactions
- Discuss *in situ* and *ex situ* conservation strategies, pros and cons of wildlife tourism, wildlife trade, wildlife forensics and crime
- Evaluate the laws and regulations pertaining to protection of natural resources and their management and aspects of zoo designing and management

Unit 1

- 1.1 Introduction to Ecology - Habitats and Niches – Resource Partitioning
- 1.2 Landscape Ecology– High Altitude Ecology - Wetland Ecology
- 1.3 Natural Resource Management

Unit 2

- 2.1 Population Dynamics: Concepts, Animal Dispersion and Animal Populations
- 2.2 Population Growth and Its Regulation: Growth without Regulation, Regulation of Population Densities, Demographic Data and its importance
- 2.3 Factors Affecting Population Density: Determinate and Stochastic Factors: Space, Food and Water, Territories, Herbivores and Predators, Weather and Climate, Parasites and Diseases, Natural Disasters, Self -Regulation, Stress.
- 2.4 Wildlife Population Estimation Methods: Direct, Indirect – Making Observations – Field Notes and Photographic Records; Use of Field Equipment: Binoculars, Telescope, Camera, Tally Counter, GPS, Radio Telemetry, Drones

Unit 3

- 3.1 Biogeography and Wildlife Habitat: Species Distribution, Patterns, Continental Drift, Factors Affecting Animal Distribution, Biodiversity Hotspots in India - Endemism
- 3.2 Wildlife: Definition, Values - Biology of Indian Wildlife - Salient Features of Important Wild Animals: Insects and Other Arthropods, Fishes, Amphibians, Reptiles, Birds and Mammals
- 3.3 Man – Wildlife Interactions and Conflicts– Ecological Impacts – Concepts, Principles and Human Dimensions in Wildlife Management

Unit 4

- 4.1 Wildlife Tourism: Viewing Animals in the Wild–Wildlife Damage Management - Wildlife Crimes and Forensics
- 4.2 Wildlife Trade - Wildlife Protection -Legislations and Acts: Wildlife Protection Act (1972) and its Amendments, Biodiversity Act (2000) - Role of NGOs – Role of Institutions and Organizations
- 4.3 Planning and Execution of Field Surveys: Sampling Methods - Capture and Handling of Wild Animals
- 4.4 Principles of Wildlife Health – Wildlife Diseases: Anthrax, Rabies, Ringworm, Taeniasis

Unit 5

- 5.1 Need for Conservation – Strategies: *In Situ*, *Ex Situ*
- 5.2 Planning and implementing conservation programmes - wildlife projects - Conservation Genetics and Conservation Management — Nutrition of Captive and Free Ranging Wild Fauna
- 5.3 Zoo Designing - Management and Husbandry of Zoo Animals

BOOKS FOR REFERENCE

- Anderson, S.H. (2002). *Managing our wildlife resources*. New Jersey: Prentice Hall.
- Dasmann, R. F. (2011). *Wildlife Biology*. New Jersey: John Wiley and Sons.
- Fulbright, T. E. & Hewitt, D. G. (2007). *Wildlife Science: Linking Ecological Theory and Management Applications*. Florida: CRC Press
- Krausman, P.R. (2002). *Introduction to Wildlife Management - the Basics*. USA: Prentice Hall.
- Krausmann, P. R. (2002). *Wildlife Ecology and Management*. USA :Prentice Hall.
- Newsome, D., Dowling, R. & Moore, S. (2005). *Wildlife Tourism*. Ohio: Cromwell Publishers.
- Saha, G. K. & Mazumdar, S. (2017). *Wildlife Biology: An Indian Perspective*. Delhi: Prentice – Hall of India Pvt. Ltd.
- Silva, N.J. (2012). *The Wildlife Techniques Manual: Research & Management*. Baltimore: The Johns Hopkins University Press.
- Terio, K.A., McAloose, D. & St. Leger, J. (Ed.). (2018). *Pathology of Wildlife and Zoo Animals*. Massachusetts: Academic Press.
- Wobeser, G. A. (2007). *Disease in Wild Animals: Investigation and Management*. New York City: Springer Verlag.

JOURNALS

Conservation Biology

Wildlife Biology

WEB RESOURCES

<http://www.worldwildlife.org/>

<http://www.wwfindia.org/>

NPTEL Course on Wildlife Ecology

https://onlinecourses.nptel.ac.in/noc20_bt39/preview

NPTEL Course on Wildlife Conservation

https://onlinecourses.nptel.ac.in/noc20_bt39/preview

PATTERN OF ASSESSMENT

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH VI A - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SYLLABUS

(Effective from the academic year 2023 - 2024)

FUNDAMENTALS OF FOOD SCIENCE

CODE:23ZL/UI/FS23

CREDITS:3

OBJECTIVES OF THE COURSE

To enable the students to,

- comprehend the basic concepts of nutrition, right type of food choice, importance of malnutrition, fortification and diet therapy for diabetes mellitus and cardio – vascular diseases.
- Understand the significance of growth curve of bacteria, food contamination and spoilage of vegetables and fruits, fish and sea food and importance of personal hygiene of food handler and methods of sterilization.
- Comprehend the processes and techniques of post – harvest technology of oil seeds, fruits, vegetables, meat, fish and poultry, fermentation technology, fortification, packaging functions and types of packaging materials.
- Understand the detection tests involved in adulteration of food grains, dal, oil, spice, ghee and the significance of naturally occurring food toxicants, pesticides and food labelling.
- Comprehend the factors affecting food acceptance at sensory, psychological level, objective methods of sensory evaluation and importance of quality control and food laws.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Recognize the right type of food choice which will provide the right nutrition and adequate number of calories
- Relate the type of food spoilage and practice personal hygiene to avoid food borne diseases
- Discuss the varied types of food packaging materials and their barrier properties
- Differentiate common food adulterants
- Explain the importance of food laws

Unit 1

Food Chemistry and Nutrition

- 1.1 Introduction to Food Chemistry
- 1.2 Food Guide and Usage - Basic Five Food Groups - Malnutrition - Fortification
- 1.3 Diet Therapy: Purpose and Principles - Diet in Diabetes mellitus and Cardiovascular Diseases
- 1.4 Dietary Management

Unit 2

Food Microbiology and Sanitation and Hygiene

- 2.1 Microbial Growth-Growth Curve of Bacteria
- 2.2 Food Contamination and Spoilage –Vegetables and Fruits
- 2.3 Fish and Other Sea Food
- 2.4 Importance of Personal Hygiene of Food Handler - Safety in Food Storage - Handling and Preparation
- 2.5 Methods of Sterilization - Use of Detergents - Heat and Chemicals

Unit 3

Post Harvest Technology and Food packaging

- 3.1 Cereals and Legumes - Oil Seeds - Fruits and Vegetables - Meat Fish and Poultry
- 3.2 Fermentation Technology
- 3.3 Fortification Technology - High Protein Technology - Extruded Foods
- 3.4 Packaging Functions and Packaging Materials
- 3.5 Types of Packaging - Shrink-Strip – CFB – Glass – Tetrapak - Rigid Containers – Plastic- Shelf-Life- Plastic numbers-Bio PolymerQuality Testing of Packaging

Unit 4

Food Adulteration and Food Toxicology

- 4.1 Detection of Food Adulteration in Food Grains, Dhal, Oil, Spices and Ghee
- 4.2 Estimation of Benzoic Acid and BOAA Test
- 4.3 Food Toxicology - Naturally Occurring Food Toxicants
- 4.4 Hazards of Pesticides and Heavy Metals in Food
- 4.5 Food Labeling

Unit 5

Sensory Evaluation & Quality Control

- 5.1 Factors affecting Food Acceptance - Sensory, Psychological
- 5.2 Objective Methods of Sensory Evaluation
- 5.3 Quality Control and its Importance - Food Laws

BOOKS FOR REFERENCE

Banwart, George J. (1987). *Basic Food Microbiology*. New Delhi: CBS

Brown, Judith E. (1987). *Nutrition Now*. Belmont: Wadsworth Thomson Learning

Frazier, (2017). *Food Microbiology*. New York: Mc Graw Hill

Insel, Paul R. Elaine Turner and Don Ross. (2007). *Discovering Nutrition*. Massachusetts: Jones and Bartlett

Jay, James M. (1996) . *Modern Food Microbiology*. New York: McGraw Hill Marriot,

Norman G. (1989). *Principles of Food Sanitation*. New York: AVI Publishing

Maynard A., Amerine, Rose Marie P. & Edward B. Rossler. (1965). *Principles of Sensory Evaluation of Food*. New York

Swaminathan, Geetha and Mary George. (2002). *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham

JOURNALS

Food Science and Nutrition

Journal of Nutrition and Food Sciences

International Journal of Nutrition and Food Sciences

WEB RESOURCES

<http://www.foodnavigator-asia.com/>

<http://www.foodandnutrition.org/>

<https://www.ift.org/>

PATTERN OF ASSESSMENT

End-Semester Examination: Total Marks: 100 Duration: 3 hours

QUESTION PAPER PATTERN

Section A – 10 x 3 = 30 Marks (All questions to be answered)

Section B – 5 x 6 = 30 Marks (5 out of 7 to be answered)

Section C – 2 x 20 = 40 Marks (2 out of 4 to be answered)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

PSYCHOLOGY - SHIFT I
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086
DEPARTMENT OF PSYCHOLOGY
COURSES OF STUDY
(Effective from the Academic Year 2023-2024)
CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Allied Core offered to Department of Economics									
23PY/AC/FC35	Fundamentals of Consumer Behaviour	5	5	0	0	3	50	50	100
Allied Core offered to Department of Sociology									
23PY/AC/FS45	Fundamentals of Social Psychology	5	5	0	0	3	50	50	100
General Electives									
23PY/GE/HB22	Fundamentals of Human Behaviour	2	2	0	0	-	50	-	100
23PY/GE/BC22	Basic Skills in Counselling	2	2	0	0	-	50	-	100
23PY/GE/IR22	Interpersonal Relationship	2	2	0	0	-	50	-	100
23PY/GE/IG22	Introduction to Gender and Sexuality	2	2	0	0	-	50	-	100
23PY/GE/AD22	Psychology of Adolescence	2	2	0	0	-	50	-	100
23PY/GE/SB22	Introduction to Social Behaviour	2	2	0	0	-	50	-	100
Postgraduate Electives									
23PY/PE/PE23	Personal Effectiveness	3	0	0	3	-	50	50	100
23PY/PE/PW23	Psychology of Well-being	3	0	0	3	-	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-86.

**Allied Core offered by the Department of Psychology to
B.A. Economics Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF CONSUMER BEHAVIOUR

CODE: 23PY/AC/FC35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To introduce the concepts and models associated with consumer behavior
- To interpret key psychological processes underlying consumer behavior
- To acquaint students with the implications of sociocultural contexts on consumer's behaviors
- To discuss the impact of media and reference groups on consumer psychology
- To explain the factors underlying the consumer decision making process

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify the internal and external influences that drive individuals to consumerism	K1
CO2	describe the models and theories associated with consumer psychology	K2
CO3	apply their knowledge of psychological processes in consumer behavior	K3
CO4	distinguish the motives behind diverse consumer behaviors based on the underlying factors	K4
CO5	evaluate the effectiveness of strategies used to influence consumer psychology	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Consumer Behaviour 1.1 Definition and meaning of Consumer Behaviour 1.2 Nature and Importance of Consumer Behaviour 1.3 Overview of Consumer Behaviour Models – psychological model, general model of consumer behaviour, economic model.	K1- K5	12	1-5
2	Consumer Motivation 2.1 Meaning of Motivation, Types of Motives, Dynamic Nature of Motives-Needs and Goals of Consumers Consumer Personality 2.2 Meaning of Personality, Facets of Personality, Personality Traits and Consumer Behaviour	K1- K5	15	1-5
3	Consumer in the Social and Cultural Settings 3.1 Family and Consumer Related Roles 3.2 Social Standing and Consumer Behaviour 3.3 Culture's Influence on Consumer Behaviour 3.4 Cross cultural consumer behaviour- global marketing opportunities	K1- K5	12	1-5

UNIT	CONTENT	CL	HRS	CO
4	Consumer Communication Process 4.1 Definition of Communication 4.2 Communication Process-Traditional Media and New Media 4.3 Opinion Leadership- Characteristics, measuring opinion leadership 4.4 Reference Groups	K1- K5	14	1-5
5	Consumer Decision-Making Process 5.1 Stages of Decision Making 5.2 Types of Decision Making 5.3 Consumer Decision Making Model- EKB Model 5.4 Consumer Insights	K1- K5	12	1-5

BOOKS FOR STUDY

Schiffman, Leon G., Joe Wisenblit, and S. Ramesh Kumar. *Consumer Behavior*. 12th ed., Chennai, Pearson Education India, 2019.

Sharma, Rajwanti., Jai Pal Sharma. *Consumer Behaviour*. New Delhi, JBC Press. 2014.

BOOKS FOR REFERENCE

Sethna, Zubin, and Jim Blythe. *Consumer behaviour*. 4th ed., New Delhi, Sage. 2019.

Graves, Philip. *Consumer.ology: The Truth about Consumers and the Psychology of Shopping*. London. Nicholas Brealey Publishing. 2013.

Pasricha, Seema. *Consumer Psychology*. New Delhi. Deep & Deep. 2007

JOURNALS

Journal of Consumer Behaviour

<https://www.ingentaconnect.com/content/westburn/jcb>

WEB RESOURCES

Consumer-Brand Relationship

<https://bit.ly/46bui97>

PATTERN OF ASSESSMENT

Continuous Assessment:		Total Marks: 50	Duration: 90 minutes	
Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/AC/FC35												
III	Course Title: Fundamentals of Consumer Behaviour												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	3	2	3	3	3	2	3	2
CO 2	3	3	3	3	2	3	3	3	3	2	3	3	3
CO 3	3	3	3	3	3	3	3	3	2	2	3	3	3
CO 4	3	3	3	3	2	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core offered by the Department of Psychology to
B.A. Sociology Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF SOCIAL PSYCHOLOGY

CODE: 23PY/AC/FS45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the basic concepts of social psychology
- To familiarize students on how attitudes can be formed and changed
- To demonstrate the influence of groups on cognition and behaviour
- To explore the various interpersonal prejudices and causal factors for aggression
- To explain factors leading to conformity and prosocial tendencies

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify the influence of social contexts on thoughts, feelings and behaviours of an individual	K1
CO2	explain the processes underlying social cognition and social behaviours	K2
CO3	apply social psychological theories to interpret a range of human behaviours	K3
CO4	distinguish between diverse facets of social behaviour	K4
CO5	evaluate the factors leading to prosocial and antisocial biases	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HOURS	CO
1	Introduction to Social Psychology 1.1 Meaning and Definition 1.2 Nature of Social Psychology and Scope of Social Psychology 1.3 Methods of study in Social Psychology – Experimental, Observation and Interview Methods	K1- K5	10	1-5
2	Attitudes 2.1 Definition and Nature of attitudes 2.2 Relationship between attitudes and behaviour 2.3 Formation of Attitudes 2.4 Attitude change, Persuasion, Cognitive dissonance	K1- K5	13	1-5
3	Behaviour in Groups 3.1 Overview of Social Influence and Social Cognition 3.2 Social Facilitation and Social Loafing 3.3 Group Polarization and Groupthink 3.4 Bystander Effect and Deindividuation	K1- K5	14	1-5

UNIT	CONTENT	CL	HOURS	CO
4	Prejudice and Aggression 4.1 Definition and Nature of Prejudice 4.2 Causes of Prejudice: Social, Emotional and Cognitive factors 4.3 Discrimination, Stereotypes, Racism, Sexism 4.4 Definition and Types of Aggression, Theories and Management of Aggression	K1-K5	15	1-5
5	Conformity and Altruism 5.1 Definition of Conformity 5.2 Factors influencing Conformity 5.3 Altruism (Prosocial Behaviour) 5.4 Increasing Prosocial Behaviour	K1-K5	13	1-5

BOOKS FOR STUDY

Baron, Robert A., and Nyla R. Branscombe. *Social Psychology*. 14th ed., New Delhi, Pearson Education Limited, 2016.

Myers, David G., and Jean M. Twenge. *Social Psychology*. 14th ed., New York, McGraw-Hill Education, 2022.

BOOKS FOR REFERENCE

Kassin, Saul M., et al. *Social Psychology*. 11th ed., Boston, Cengage, 2021.

Fiske, Susan T., Daniel T. Gilbert, and Gardner Lindzey, eds. *Handbook of Social Psychology*. Vol. 1 & 2. New Jersey, John Wiley & Sons, 2010.

Gruman, Jamie A., Frank W. Schneider, and Larry M. Coutts, eds. *Applied Social Psychology: Understanding and Addressing Social and Practical Problems*. 3rd ed., New Delhi, SAGE Publications, 2017.

JOURNALS

Doaj.org

Journals of Psychology

APA Psychnet

Sage Journals

Pearson Journals

WEB RESOURCES

<http://bit.ly/OvercomeBiases>

https://bit.ly/Prejudice_PaulBloom

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/AC/FS25												
II	Course Title: Fundamentals of Social Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	1	1	2	2	3	2	2	2	2
CO 2	3	2	3	3	2	2	3	3	3	2	3	3	2
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology to students of
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF HUMAN BEHAVIOUR

CODE: 23PY/GE/HB22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE:

- To help students understand basic principles of psychology
- To create self-awareness and understanding of various aspects of human behaviour
- To acquaint the learner with the complexities of individual differences

COURSE LEARNING OUTCOMES:

On successful completion of the course, the student will be able to:

COs	Description	CL
CO1	identify and recall important notions in psychology	K1
CO2	elaborate on the understanding of human behavior from a scientific perspective	K2
CO3	apply psychological principles to understanding self and others	K3
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Unit	Content	CL	Hours	CO
1	Introduction 1.1 Definition of psychology and ABCs of human behaviour 1.2 Factors affecting human behaviour 1.3 Methods of studying human behaviour- introspection, observation, interview, case study, questionnaire, experimental method 1.4 Psychological professions and areas of specializations	K1- K3	10	CO 1-3
2	Self 2.1 Definition and understanding the self: William James 2.2 Self-awareness, self-introspection 2.3 Enhancing the self or self-regulation	K1- K3	8	CO 1-3
3	Individual differences in human behaviour 3.1 Biological factors: temperaments 3.2 Psychological factors: personality (big 5 model), intelligence 3.3 Socio-cultural factors: individualist vs collectivist cultures	K1- K3	8	CO 1-3

BOOKS FOR STUDY

Baron, A. Robert. *Psychology*. New Delhi, Prentice Hall, 2007.

Baron. A. *Social Psychology*. Delhi, India, Pearson Education India, 2009.

Bowdon-Tom Butler. *50 Psychology Classics*. London, Nicholas Brealey, 2008.

WEB RESOURCES

<https://shorturl.at/uAQU5>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology to students of
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

BASIC SKILLS IN COUNSELLING

CODE: 23PY/GE/BC22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To impart significant concepts in counselling psychology
- To educate the students about the different skills required for professional counselling
- To help students understand the applications of counselling in various contexts

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	Description	CL
CO1	recall the definitions and concepts related to basic counselling skills	K1
CO2	elucidate the different perspectives and processes in counselling	K2
CO3	demonstrate the ways in which counselling can aid better mental health	K3
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Unit	Content	CL	Hours	CO
1	Introduction to Counselling 1.1 Definition and goals of counselling 1.2 Characteristics of a counsellor 1.3 Concepts of advice, guidance and psychotherapy in relation to counselling 1.4 Ethics in counselling 1.5 Individual and group counselling	K1- K3	10	CO 1-3
2	Counselling Process 2.1 Basics steps to counselling (case study & role play) – practical sessions 2.2 Skills in building counselling relationships	K1- K3	10	CO 1-3
3	Areas in Counselling 3.1 Counselling in educational institutions 3.2 Counselling in organizations 3.3 Counselling in families 3.4 Counselling in communities 3.5 Online counselling	K1- K3	6	CO 1-3

BOOKS FOR STUDY

Baron, Robert A, and Girishwar Misra. *Psychology*. 5th ed., Chennai, Pearson, 2015.
Patterson, Lewis E., and Elizabeth Reynolds Welfel. *The Counseling Process*. Delhi, Brooks Cole, 2000.

WEB RESOURCES

<https://shorturl.at/fmtwP>

<https://shorturl.at/crvM6>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology to students of
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

INTERPERSONAL RELATIONSHIPS

CODE: 23PY/GE/IR22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To highlight the philosophy of relationship dynamics
- To annotate aspects pertaining to the formation of relationships
- To deduce positive communication strategies to optimize interpersonal relationships

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	Description	CL
CO1	elucidate the foundation of relationship formulation and dissolution	K1
CO2	comprehend appropriate strategies of relationship building to enhance the quality of relationships	K2
CO3	appreciate the necessity of having positive flourishing relationships	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Unit	Content	CL	Hours	CO
1	Introduction to Dynamics of Relationships 1.1 Types of relationships- affiliation, friendship, relationship with family, romantic relationships 1.2 Emerging relationship statuses 1.3 Love - qualities of love, characteristics, reasons, theories, functions, barriers, long-term love	K1- K3	8	CO 1-3
2	Building and Savouring Relationships 2.1 Trust and commitment 2.2 Communication and love languages 2.3 Compatibility and complementarity	K1- K3	9	CO 1-3
3	Conflicts, Abuse, Loss and Healing in Relationships 3.1 Conflict, abuse and infidelity 3.2 Jealousy, loneliness, and possessiveness 3.3 Breakup, divorce, separation, and death 3.4 Healing in relationships- self-acceptance, boundaries, gratitude, forgiveness, compassion, mindfulness	K1- K3	9	CO 1-3

BOOKS FOR STUDY

Benokraitis, Nijole V. *Marriages & Families*. 9th ed., Ohio, Pearson, 2018.
Lopez, Shane J, et al. *Positive Psychology*. SAGE Publications, 2018.
Olson, David H L, et al. *Marriages and Families : Intimacy, Diversity, and Strengths*. New York, Mcgraw Hill Llc, 2021.

BOOKS FOR REFERENCE

Chapman, Gary. *The Five Love Languages How to Express Heartfelt Commitment to Your Mate*. Moody Publishers, 2014.
Christensen, Andrew, et al. *Integrative Behavioral Couple Therapy: A Therapist's Guide to Creating Acceptance and Change, Second Edition*. W. W. Norton & Company, 15 Sept. 2020.

JOURNALS

Frontiers in Psychology
Journal of Social and Personal Relationships
Journal of Family Communication
Personal Relationships

WEB RESOURCES

<https://rb.gy/dip45>
<https://rb.gy/ut1ty>
<https://rb.gy/xj9xw>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 'Other Components' will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology to students of
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO GENDER AND SEXUALITY

CODE: 23PY/GE/IG22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce key concepts and terms related to gender and sexuality
- To familiarize students with the social and cultural notions and challenges faced relating to gender and sexual identities
- To sensitize students to the issues faced by sexuality and gender minorities and instigate a dialogue on the nuances

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recognize the psychological, sociocultural and legal factors affecting problems of gender and sexuality	K1
CO2	summarize the diverse range of experiences of people belonging to gender and sexuality minorities	K2
CO3	employ a sociocultural lens to interpreting challenges relating to gender and sexual identities and find solutions	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Unit	Content	CL	Hours	CO
1	Introduction to Gender and Sexuality 1.1 Difference between sex and gender 1.2 Gender identity- cisgender, transgender, non-binary; gender expression, genderbread person 1.3 Theories of gender identity formation- psychoanalytic theory, social learning theory, cognitive development theory 1.4 Sexual orientation- definition and types	K1- K3	8	CO 1-3
2	Experiences of Gender 2.1 Attitudes about gender, components of gender-related attitudes- gender-role stereotypes, sexism, discrimination, changing gender-related attitudes 2.2 Family and society- socialization of norms, division of labour, media representation 2.3 Forms of oppression- patriarchy, social hierarchies (caste, class), religion 2.4 Feminism- definition, history of the movement	K1- K3	10	CO 1-3

3	Challenges of the LGBTQ+ Community 3.1 Healthcare-related issues- medical and psychological challenges 3.2 Occupational issues- accessibility, discrimination and harassment 3.3 Legal issues- changing nature of the law, current debates 3.4 Social and family issues- homophobia/transphobia, social exclusion, violence	K1-K3	8	CO 1-3
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BOOKS FOR STUDY

Killermann, Samuel. *The Social Justice Advocate's Handbook: A Guide to Gender*. Austin, Impetus Books, 2013.

Helgeson, Vicki S. *Psychology of Gender*. 5th ed., New York, Taylor and Francis, 2017.

Bhasin, Kamla. *Understanding Gender*. New Delhi, Kali for Women, 2000.

BOOKS FOR REFERENCE

Ember, C. R., and M. Ember. *Encyclopedia of Sex and Gender: Men and Women in World's Culture*. New York, Kluwer Academic/Plenum Publishers, 2003.

Richards, Christina., and Meg John Barker. Editors. *The Palgrave Handbook of the Psychology of Sexuality and Gender*. New York, Palgrave Macmillan, 2015.

Rogers, Wendy Stainton, and Rex Stainton Rogers. *The Psychology Of Gender And Sexuality: An Introduction*. United Kingdom, McGraw-Hill Education, 2001.

White, J. W., et al. *Sexuality, Society, and Feminism*. Washington, American Psychological Association, 2000.

RESEARCH ARTICLES FOR FURTHER READING

Delphy, Christine. "Rethinking sex and gender." *Women's Studies International Forum*. Vol. 16. No. 1. Pergamon, 1993.

Bhasin, Kamala. "What is patriarchy?" *Gender Basics, New Delhi: Women Unlimited*, 1993.

WEB RESOURCES

<https://bit.ly/453UzEW>

<https://bit.ly/3t6uLdS>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 'Other Components' will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology to students of
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

PSYCHOLOGY OF ADOLESCENCE

CODE: 23PY/GE/AD22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To help students demonstrate a basic understanding of adolescent psychology
- To aid students to distinguish between counselling and other forms of support
- To enable curiosity and self-reflection

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	Description	CL
CO1	recall the various concepts related to adolescence	K1
CO2	elucidate the various experiences of adolescents with psychological concepts and theories	K2
CO3	apply psychological theories and concepts to navigate everyday conflicts relevant to teenagers	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Unit	Content	CL	Hours	CO
1	Introduction to Adolescence 1.1 Meaning of adolescence 1.2 Needs and problems of adolescence 1.3 Physical development: growth spurt and its psychological impact, health concerns- psychological impact (body image, substance use, and sexual health) 1.4 Social development- egocentrism, relationship with family, peer group and society	K1- K3	10	CO 1-3
2	Psychological development in Adolescence 2.1 Identity development- Marcia, Erikson 2.2 Personality development- personality traits and temperament in adolescence	K1- K3	8	CO 1-3
3	Adolescence and the Mass Media 3.1 Media habits of today's youth 3.2 Developmental differences in processing mass media 3.3 Influence of media (violence, sex, achievement, negative social media outcomes)	K1- K3	8	CO 1-3

BOOKS FOR STUDY

Santrock, John. *Adolescence*. Noida, McGraw-Hill Education, 2015.

Papalia, Diane, et al. *Human Development*. Noida, McGraw-Hill Humanities/Social Sciences/Languages, 2008.

BOOKS FOR REFERENCE

Shaffer, David R., and Katherine Kipp. *Developmental Psychology: Childhood and Adolescence*. Delhi, Cengage Learning, 2013.

WEB RESOURCES

<https://shorturl.at/zPXZ8>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology to students of
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO SOCIAL BEHAVIOUR

CODE: 23PY/GE/SB22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide students with a basis for understanding interactions of individuals and societies.
- To enable students to understand perception of people and social events.
- To enable students to understand the psychological basis of social behaviour.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	Description	CL
CO1	recall basic concepts of social psychology	K1
CO2	describe and explain social behaviour in psycho-social context	K2
CO3	apply the concepts and theories of social behaviour in personal life	K3
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Unit	Content	CL	Hours	CO
1	Introduction to Social behaviour 1.1 Definition and Scope of social psychology 1.2 Social Influence: Conformity, Compliance and Obedience 1.3 Social Cognition: Heuristics and Schemas	K1- K3	10	CO 1-3
2	Social Perception 2.1 Non-verbal Communication: The basic channels 2.2 Attribution and Errors in attribution: Actor-observer effect, Self serving bias	K1- K3	8	CO 1-3
3	Types of Social Behaviour 3.1 Pro-Social Behaviour and Anti-social behaviour 3.2 Stereotypes, Prejudices and Discrimination 3.2 Interpersonal Attraction: Internal and external sources	K1- K3	8	CO 1-3

BOOKS FOR STUDY

Baron. A Robert, Byrne. Donn. *Social Psychology*. New Delhi, Prentice Hall, 2004.

WEB RESOURCES

<https://shorturl.at/istK7>

<https://shorturl.at/druJM>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
Post Graduate Elective Course Offered by the Department of Psychology to
M.A. /M.Sc. /M.Com. Degree Programme
SYLLABUS

(Effective from the academic year 2023-2024)

PERSONAL EFFECTIVENESS

CODE: 23PY/PE/PE23

CREDITS:3

L T P: 3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To assist students towards self -discovery
- To enable students to enhance their social skills
- To help students develop a sense of individual identity

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	Description	CL
CO1	reiterate and explain the concepts of emotions, motives and drives	K1 & K2
CO2	display improved interpersonal relationship skills	K3
CO3	analyze and evaluate the impact of social perception and intelligence on interpersonal relationships.	K4
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HOURS	CO
Unit 1	Self-Discovery 1.1 Self-Concept 1.2 Self-Image, Self-Esteem 1.3 Emotional Intelligence- Basic Emotional Competencies 1.4 Motive & Drives 1.5 Values	K1-K4	7	CO 1- 3
Unit 2	Understanding others 2.1 Social Perception Meaning and Definition 2.2 Basic Principles of Social Perception 2.3 Social Intelligence-Social Awareness and Social Facility 2.4 Social Influence	K1-K4	8	CO 1- 3
Unit 3	Interpersonal Communication and Relationships 3.1 Definition of Communication 3.2 Elements of Communication 3.3 Types of Communication	K1-K4	8	CO 1- 3

	3.4 Listening/Responding 3.5 Developing Interpersonal Relationships 3.6 Assertive Behaviour			
Unit 4	Interpersonal Dynamics 4.1 Transactions 4.2 Life Scripting 4.3 Life Positions 4.4 Ego States 4.5 Psychological Games	K1-K4	8	CO 1- 3
Unit 5	Adjustment 5.1 Adjustment- Concept of Adjustment and Maladjustment 5.2 Conflict 5.3 Frustration 5.4 Stress 5.5 Coping Strategies	K1-K4	8	CO 1- 3

BOOKS FOR STUDY:

Baron, Robert A., and Donn R. Byrne. *Social Psychology*. 13th ed., Prentice Hall, 2011.
 Berne, Eric. *Games People Play: The Psychology of Human Relationships*. Penguin Books, 2011.
 Davies, M. N., and Banyard, P., *Essential Psychology*. SAGE Southeast Asia, 2010.
 Goleman, Daniel. *Emotional Intelligence*. Bloomsbury Publishing India Private Limited, 2004.

BOOKS FOR REFERENCE:

Goleman, Daniel. *Social Intelligence*. 1st ed., New Delhi, Bloomsbury Publishing India, 2004.
 Johnson, David W. *Reaching Out: Interpersonal Effectiveness and Self-Actualization*. 2nd ed., New Delhi, Pearson College Division, 2012.
 Kravitz, Sheldon M. *Emotional Intelligence Works: Developing "People Smart" Strategies*. 2nd ed., Virginia, Viva Books, 2005.
 Walker, V., and L. Brooke. *Becoming Aware*. Dubuque, Kendall/Hunt, 2009.

WEB RESOURCES:

<https://bit.ly/3rsCz9g>
<https://bit.ly/466ZINw>
<https://bit.ly/3tbwSNF>

PATTERN OF ASSESSMENT

Continuous Assessment:		Total Marks: 50	Duration: 90 minutes	
Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	10 (2x5 marks)		300 words
B	K2	10 (2x5 marks)	3 (Answer any 2)	300 words
C	K3	20 (1x20 marks)	1 (Internal Choice- Answer Any 1)	1200 words
	K4	10 (1x10 marks)	1 (Internal Choice- Answer Any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End Semester Evaluation

Case Study

Total Marks: 50

Cognitive Level	Description	Mark Allocation
K1 & K2	Introduction & Description	15
K3	Application of theories	15
K4	Introspective Analysis	20

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
Post Graduate Elective Course Offered by the Department of Psychology to
M.A. /M.Sc. /M.Com. Degree Programme

SYLLABUS
(Effective from the academic year 2023-2024)

PSYCHOLOGY OF WELL BEING

CODE: 23PY/PE/PW23

CREDITS:3

L T P: 3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To articulate and elucidate fundamental well-being principles.
- To facilitate connections between theoretical concepts and real-life experiences
- To highlight the practical significance of well-being psychology, demonstrating how the concepts studied in the course can be harnessed to improve the well-being.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	Description	CL
CO1	recognize and describe the key concepts related to wellbeing.	K1 & K2
CO2	utilize the theoretical concepts to enhance personal well-being and the well-being of others in daily life.	K3
CO3	investigate and discuss the factors that contribute to psychological well-being.	K4
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HOURS	CO
1	Positive Emotions and Well-Being 1.1 Importance of Positive Emotions 1.2 Building Positive Feelings 1.3 Overall Well-Being- Finding the Flow 1.4 Becoming Present-Savouring	K1- K4	8	CO 1-3
2	Happiness and Psychological Well-Being 2.1 Distinctions of Happiness 2.2 The Happiness Formula 2.3 Psychological Well-Being- Essential 2.4 Barriers to Well-Being	K1- K4	7	CO 1-3
3	Close Relationships and Well-Being 3.1 Attachment Styles 3.2 Characteristics of Close Relationships 3.3 Purposeful Positive Relationship Behaviours	K1- K4	8	CO 1-3
4	Resilience 4.1 What is Resilience? 4.2 Sources of Resilience in Childhood, Adulthood and Later Life, Successful Aging 4.3 Effects of Trauma	K1- K4	8	CO 1-3

UNIT	CONTENT	CL	HOURS	CO
	4.4 Growth Through Trauma			
5	Pro-Social Behaviour 5.1 Empathy and Altruism 5.2 Gratitude 5.3 Forgiveness	K1- K4	8	CO 1-3

BOOKS FOR STUDY

Lopez, Shane J, et al. *Positive Psychology : The Scientific and Practical Explorations of Human Strengths*. 4th ed., Thousand Oaks, California, Sage Publications, Inc, 2019.
 Style, Charlotte. *Brilliant Positive Psychology : What Makes Us Happy, Optimistic and Motivated*. Pearson Education UK, 2010.

BOOKS FOR REFERENCE

Steve, Baumgardner, and Crothers Marie. *Positive Psychology*. New Delhi, Pearson Education India, 2015.
 Grenville-Cleave, Bridget. *Positive Psychology : A Practical Guide*. London, Icon Books, 2016.
 Seligman, Martin E P. *Authentic Happiness*. North Sydney, N.S.W., William Heinemann, 2011.

WEB RESOURCES

<https://t.ly/xFOR>
<https://t.ly/doO7K>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	10 (2x5 marks)		300 words
B	K2	10 (2x5 marks)	3 (Answer any 2)	300 words
C	K3	20 (1x20 marks)	1 (Internal Choice- Answer Any 1)	1200 words
	K4	10 (1x10 marks)	1 (Internal Choice- Answer Any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End Semester Evaluation

Case Study

Total Marks: 50

Cognitive Level	Description	Mark Allocation
K1 & K2	Introduction & Description	15
K3	Application of theories	15
K4	Introspective Analysis	20



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

VALUE EDUCATION
B.A./B.SC./B.VA./B.Com./B.B.A./B.S.W./B.C.A.
DEGREE (CHOICE BASED CREDIT SYSTEM)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**DEPARTMENT OF VALUE EDUCATION****COURSES OF STUDY****(Effective from the academic year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23VE/CD/FF12	Catholic Faith Formation I	2	2	0	0	-	50	-	100
23VE/ET/VP12	Values in Personal Life	2	2	0	0	-	50	-	100
23VE/SC/SS12	Scripture Study I	2	2	0	0	-	50	-	100
SEMESTER-III									
23VE/CD/FF32	Catholic Faith Formation II	2	2	0	0	-	50	-	100
23VE/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	50	-	100
23VE/SC/SS32	Scripture Study II	2	2	0	0	-	50	-	100
SEMESTER-VI									
23VE/SS/HL63	Life Skills : An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

CATHOLIC FAITH FORMATION I

CODE:23VE/CD/FF12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To Understand the importance of God in life
- To enable students to gain insights into the Bible, especially the gospels according to St. Matthew and St. Mark
- To have an understanding of the person of Jesus Christ
- To enable students to learn about the Sacraments of Baptism and Reconciliation
- To familiarise students with the ethos of the college and the spirituality of the patron St. Francis of Assisi and foundress Blessed Mary of the Passion

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Prioritize God in their life
- Realise the relevance of the Bible
- Make Christian life a lived experience of the Gospels
- Live the sacraments of Baptism and Reconciliation
- Understand the ethos of the college and the contribution of the patron St. Francis of Assisi and foundress Blessed Mary of the Passion

Unit 1 (6 Hours)

Understanding of God

- 1.1 Personal idea of God
- 1.2 Scriptural idea of God. Triune God
- 1.3 Christian concept of personhood – sacredness of life. Gen.(1:26-27), Ps.139:13-18, Ps. 8 and letters of St. Paul (Rom. 12)
- 1.4 Essentials of catholic faith – Sin, Grace and Salvation. Rom.3:21-31, Rom.6:15-23, 2Cor.12:9-10; Eph.2:1-10;

Unit 2 (14 Hours)

Scripture and Sacraments

- 2.1 Introduction to the Bible. Relevance and significance Synoptics – Similarities and Differences
- 2.2 Introduction to Gospel of Matthew and teachings – sermon on the mount (Mt.5-7) – parables (Mt. 13) labourers in the vineyard (Mt.20:1-16), Praying the Scriptures

- 2.3 Introduction to Gospel of Mark. Textual reading
- 2.4 Sacrament of Baptism: Christian Identity - Significance of Baptism in daily life (Lk. 3: 21-22); (Rom. 6: 1-11)
- 2.5 Sacrament of Reconciliation- Sacrament of healing (Mt.18:10-14) – Importance of forgiveness (Mt18:23-35) – Significance and the effects of reconciliation - seal of confession

Unit 3

Christianity in India and the Life of Saints.

(6 Hours)

- 3.1 History of the Church in India – St. Thomas the Apostle
- 3.2 Patron of the College: St. Francis of Assisi with an emphasis on Environment- Canticle of creature and prayer for Peace. Foundress: Blessed Mary of the Passion, ethos of the college
- 3.3 Life of Saints: St. Alphonsa, St. Devasahayam Pillai, Blessed Rani Maria, St. John De Britto

Retreat: Required for course completion.

BOOKS FOR REFERENCE

The Holy Bible containing the Old and New Testaments. New Revised Standard Version. Catholic Edition for India. (2010). Bangalore: Theological Publications in India.

J.N.M. Wijngaards, mhm. (1993). *Background to the Gospels*. Bangalore: Theological Publications in India.

Charles Panackel SDB (2016). *Know the Bible*. Bangalore: Kristu Jyoti Publication.

Charles Panackel SDB (2016). *Speak, Lord*. Bangalore: Kristu Jyoti Publication.

Miller, M. J., & Benedict. (2011). *YOUCAT English: Youth catechism of the Catholic Church*. San Francisco, Calif: Ignatius Press.

Miller, M. J., & Francis. (2016). *DOCAT English: What to do?*. San Francisco, Calif: Ignatius Press.

Alfred Lapple, translated by Peter Heinegg 1982. *The Catholic Church: A Brief History*, N.J., Mahwah Pauline Press

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total marks: 50

Test//Quiz/Assignments/Scrap book/Presentation- Individual /group/Role Play.

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

VALUES IN PERSONAL LIFE

CODE: 23VE/ET/VP12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To enable the students to develop a positive self-concept and to foster healthy inter-personal relationships.
- To help students in their transition from school to college, balancing freedom and responsibility
- To enable the students to understand their social environment
- To create spiritual awareness

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- develop an awareness of their personal, social and spiritual self.
- understand the ethos of the college.
- handle value conflicts.
- realise the importance of the spiritual self.
- foster civic responsibility.

Unit 1

Vision and Mission of the college

(8 Hours)

- 1.1 Stella Maris – Star of the sea- motto of the college - vision, mission and objectives
- 1.2 Blessed Mary of the Passion – foundress, Franciscan missionaries of Mary, her vision of womanhood, and women's education.
- 1.3 St. Francis of Assisi (Patron of Environment) – canticle of the creatures- prayer for peace
- 1.4 Civic responsibilities – being humane, environmental awareness, campus cleanliness ethic of enough

Unit 2

Self Discovery

(10 Hours)

2.1 Self-awareness

Identifying strengths and weaknesses-acceptance and appreciation of self:
building self-esteem, self-confidence and self-discipline

2.2 Values

Reinforcing values: honesty and truthfulness, punctuality, discipline, generosity, integrity, humility, respect for others, inclusiveness, compassion, forgiveness and tolerance

2.3 **Changing trends**

Tradition vs. modernity, social and economic disparities, social discrimination, gender disparities

2.4 **Adapting to change**

Handling responsibilities of college life – challenges and issues-personal responsibilities handling new found freedom - college and hostel-peer pressure, building new relationships: interdependence, relationships with parents, elderly and siblings. Difference between assertive behavior and aggressive behavior.

2.5 **Handling value conflicts**

Home, College, use of Social Media – uses and abuses

Unit 3

Spiritual Awareness

(8 Hours)

3.1 Spirituality and Religiosity – integration of body, mind and spirit

3.2 Importance of Religious Beliefs and Tradition

3.3 Prayer and meditation

Workshop: Required for Course Completion

BOOKS FOR REFERENCE

Davidar(Eds). *Human Values*. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

Ignacimuthu, S. *Values for life*. Better Yourself Books: Mumbai, 1994.

James, G.M. et.al. *In Harmony-Value Education at College Level*. Chennai: Prakash, 2011.

Koikara, Felix. *Live your Values-Teacher's Guide*. Mumbai: Better Yourself Books, 2005.

Teaching / Learning Methods

- Lectures
- Group Discussions
- Power Point Presentations
- Seminars
- Role Plays
- Case Studies
- Debates
- Documentaries And Video clippings

PATTERN OF ASSESMENT (Internal) - Marks: 50

Quiz / Assignment / Presentation - Individual / Groups

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023 - 2024)

SCRIPTURE STUDY – I

CODE:23VE/SC/SS12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To facilitate a comprehensive and deeper insight of the teachings of Christ and its significance in life
- To draw examples from the lives of women in the Bible
- To understand the basic tenets of Christianity and create spiritual awareness

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

- discern values from the lives of Biblical characters
- understand the unique concept of salvation and its relevance to life
- accept life's challenges in an empowered manner

Unit 1 (8 Hours)

Vision and Mission of the College

- 1.1 Stella Maris – Star of the sea – Vision, mission and objectives of the college
- 1.2 Blessed Mary of the Passion – Foundress, Franciscan Missionaries of Mary, Her Vision of Womanhood and women's education
- 1.3 St. Francis of Assisi (Patron of Environment) – Canticle of the creatures – Prayer for peace
- 1.4 Civic responsibilities – being humane, environmental awareness, campus cleanliness –Ethic of Enough

Unit 2 (9 Hours)

Teachings of Jesus (from the Gospels)

- 2.1 Jesus: the Good Shepherd
 - 2.1.1 The Parable of the lost sheep
- 2.2 Jesus: the Way, the Truth and the Life
 - 2.2.1 Salvation
- 2.3 Parable of the Good Samaritan
 - 2.3.1 Compassion
- 2.4 Jesus: the Divine Healer
 - 2.4.1 Healing the Crippled woman

Unit 3

(9 Hours)

Women in the Bible

- 3.1 Hannah
- 3.2 Esther & Vashti
- 3.3 Ruth
- 3.4 Deborah
- 3.5 Mary – Mother of Jesus
- 3.6 Elizabeth
- 3.7 Lydia of Thyatira
- 3.8 Women Mission Leaders

BOOKS FOR STUDY AND REFERENCE

Holy Bible (NRSV), Cambridge University Press

Chidambaram P. *Women of the Bible*. Christian Press. 1980

Lockyer Herb. *All the prayers of the Bible. A devotional & expository Classic*. Zondervan – Michigan, 1959

Stringfellow, B. Alan. *Great Characters of the Bible: A Bible Study of the lay pupil and the lay teacher*. Spoon n Fork, 2017

www.gutenberg.org

PATTERN OF ASSESSMENT (Internal)

Total Marks: 50

Continuous Assessment Test: Components

Quiz /Presentation/Group discussion/Role Play/Assignment/Workshop

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

CATHOLIC FAITH FORMATION II

CODE:23VE/CD/FF32

CREDITS:2

L T S:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To enable the students to acquire knowledge of the basic teachings of the Church
- To enable students to gain insights into the gospels according to St. Luke and St. John
- To inculcate the values of unity, harmony and peace in a multi – cultural and multi–religious society
- To enable students to learn about the sacraments, the sacraments of holy eucharist and matrimony

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- understand catholic beliefs and teachings
- live the teachings of Jesus as in the gospels
- highlight the main events in the life of Christ as recorded in the gospels of St. Luke and St. John
- Live the sacraments in christian life

Unit 1

Basic tenets of the Catholic Faith

(8 Hours)

- 1.1 The Apostle's Creed – Christian profession of faith
- 1.2 Commandments of the Church
- 1.3 Lived faith – St. Antony, St. Teresa of Avila, St. Theresa of Lisieux, Maria Goretti, Mother Theresa
- 1.4 Highlights of major religions in India
- 1.5 Peace initiatives towards peace and harmony

Unit 2

Lives lessons from the Scriptures

(10 Hours)

- 2.1 Introduction to the gospel of Luke
- 2.2 Role of Mary in salvation history, annunciation (Lk.1:26-38), magnificat (Lk.1:46-55) - Marian devotion.

- 2.3 Teachings in the gospel of Luke -Beatitudes (Lk. 6:20-26), Good Samaritan (Lk. 10:25-37), Prodigal son (Lk. 15:11-32), Rich man and Lazarus (Lk.16:19-31), Zacchaeus (Lk.19:1-10), parable of the wicked tenants (Lk. 20:9-19)
- 2.4 Selected passages from the gospel of John – wedding at Cana – (Jn. 2:1-12), Samaritan woman – (Jn.4:1-42), multiplication of bread – (Jn. 6:1-15), Washing of the disciples' feet (Jn. 13:1-20), Jesus the True Vine (Jn.15:1-17)

Unit 3

Living the Sacraments

(8 Hours)

- 3.1 Sacrament of Eucharist: The source and summit of Christian life- last supper (Lk. 22:14-23), passion, death and resurrection of Jesus Christ (Lk. 22:47- 24:12) - participation in the Eucharist - significance of Eucharist as a sacrament - effects of Eucharist.
- 3.2 Holy Matrimony - Choice of Life Partner, Matrimonial Vows, the redemptive purpose of marriage for the partner and family
- 3.3 Christian Call and Commitment
- 3.4 Confirmation -Effects – the power of the Holy Spirit in Christian Life - (Acts 2:1-10), (Gal.5:13-26) and anointing of the sick

Retreat: required for course completion.

BOOKS FOR REFERENCE:

- Miller, M. J., & Benedict, (2011). *YOUCAT English: Youth catechism of the Catholic Church*. San Francisco, Calif: Ignatius Press.
- Miller, M. J., & Francis, (2016). *DOCAT English: What to do?* San Francisco, Calif: Ignatius Press.
- Charles Panackel SDB (2016). *Know the Bible*. Bangalore: Kristu Jyoti Publication.
- Charles Panackel SDB (2016). *Speak, Lord*. Bangalore: Kristu Jyoti Publication.
- *The Holy Bible containing the Old and New Testaments. New Revised Standard Version. Catholic Edition for India. (2010)*. Bangalore: Theological Publications in India.

Teaching Learning Methods

Lectures /Group Discussions/Paper presentations/Power point presentations/Seminar/Role plays/ Case studies/Debates/Documentaries and video clippings

PATTERN OF ASSESSMENT (Internal) - Marks: 50

Continuous Assessment Test:

Test /Quiz/Assignment/Presentation – Individual / Groups

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023– 2024)

SOCIETY AND PEACE INITIATIVES

CODE:23VE/ET/SP32

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To give the students a deeper understanding of the reality and diversity of Indian Society
- To inculcate in them the values of Unity, Harmony and Peace in a multi - cultural and multi - religious society
- To create awareness among the students about Human Rights and Responsible Citizenship

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Have an understanding of the diversity of Indian Society
- Have an awareness of peace initiatives towards building harmony
- Agents of peace building in India
- Know the importance of being humane and compassionate

Unit 1

Responsible Citizenship

(8 Hours)

- 1.1 Basic understanding of the Indian Constitution – preamble- fundamental rights and duties of an Indian citizen
- 1.2 Political context of India - multi-party system
- 1.3 Universal declaration of human rights – human rights violation
- 1.4 Significance of being humane, compassionate and just

Unit 2

Religious and Cultural Diversity of India

(10 Hours)

- 2.1 Highlights of different religions in India – values in different religions
- 2.2 Living the values of respect and understanding in a pluralistic culture
- 2.3 Threats to religious and cultural diversity, Culture Conflicts.
- 2.4 Realities of casteism and communalism

Unit 3

Peace Initiatives

(8 Hours)

- 3.1 Peace as a value in all religions
- 3.2 St. Francis – man peace, prayer for peace
- 3.3 World Initiatives
- 3.4 Gandhi and Principles of Peace

- 3.5 Nobel Peace Laureates – Mother Teresa, Nelson Mandela, Swami Vivekananda, Kailash Satyarti.
3.6 Saints of different religions
3.7 Role Models – A P J Abdul Kalam, Malala Yousafzai, Dalai Lama, Medha Patkar

Workshop and Interfaith Prayer – It is a requirement for students to attend

BOOKS FOR REFERENCE

Amaladoss, Michael. *Living in a Secular Democracy, Conflict and Community among Religions*. India: Vaigarai, 2010.

Davidar(Eds). *Human Values*. New Delhi: All India Association of Christian Higher Education (AIACHE), 2013.

James, G.M.et.al. *Life Issues and Coping Strategies*. Chennai: Loyola College, 2010.

James, G.M.et.al. *Social Awareness*. Chennai: Loyola College, 2009.

Salesians of Don Bosco. *Beyond the Barriers*. Chennai: Deepagam, 2002.

Suri, Sudesh ed. *Global Education Conference on Culture Of Peace and Non-Violence*. Jalandhar, 2002.

Spindler Louise. *Culture Change and Modernization*. New York: Winston Publication, 1983.

Teaching / Learning Methods

Lectures/Group discussions/Paper presentations/Power point presentations/Seminars/Role plays/Case studies/Debates

PATTERN OF ASSESSMENT (Internal)

Marks: 50

Continuous Assessment Test:

Quiz/Assignment /Presentation - Individual / Groups

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023-2024)

SCRIPTURE STUDY – II

CODE:23VE/SC/SS32

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To inculcate values through the character study of some Biblical personalities
- To affirm the relevance of Beatitudes in today's life
- To understand the basic tenets of Christianity and create spiritual awareness

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

- gain a better understanding of the basic values in life through the character study of Biblical personalities
- contextualize the Beatitudes
- comprehend the infiniteness of God

Unit 1 (8 Hours)

Character study

- 1.1 Sarah and Hagar
- 1.2 Moses
- 1.3 Joseph
- 1.4 Daniel
- 1.5 Martha and Mary
- 1.6 Peter and Judas Iscariot
- 1.7 Saul to Paul
- 1.8 The Person of Jesus in the Gospel of Mark

Unit 2 (9 Hours)

Sermon on the Mount

- 2.1 Beatitudes
- 2.2 Salt and Light
- 2.3 Ask, seek and knock
- 2.4 Wise and foolish builders
- 2.5 Christ contextualized

Unit 3 (9 Hours)

God in Bible

- 3.1 God of transformation
- 3.2 God of restoration
- 3.3 God of resurrection
- 3.4 God of reconstruction (God, the Potter)
- 3.5 The triune God

BOOKS FOR STUDY AND REFERENCE

Holy Bible (NRSV), Cambridge University Press

Chidambaram P, *Women of the Bible*, Christian Press, 1980

Lockyer Herb, *All the prayers of the Bible. A devotional & expository Classic*, Zondervan – Michigan, 1959.

Stringfellow, B. Alan *Great Characters of the Bible: A Bible Study of the lay pupil and the lay teacher*, Spoon n Fork, 2017

The Story of God Bible Commentary Sermon on the Mount, Scot McKnight, Zondervan, Grand Rapids, Michigan 49546, 2013

www.gutenberg.org

PATTERN OF ASSESSMENT (Internal) Total Marks: 50

Continuous Assessment Test: Components

Quiz

Presentation

Group discussion

Role Play

Assignments

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

FOUNDATION COURSE - ENGLISH
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

FOUNDATION COURSE: ENGLISH

VISION OF THE DEPARTMENT

To encourage students to evolve into sensitive, independent individuals and agents of social change through the study of literatures from across different regions.

MISSION OF THE DEPARTMENT

- To impart language and communication skills through participatory learning in order to aid employability
- To encourage problem solving and critical thinking in students
- To explore newer areas of research across regions in English Studies
- To equip students with knowledge and critical thinking skills which will aid them in questioning dominant narratives in English Studies so that they become agents of social change and help
- To continually update our programme to be contemporaneous and inclusive
- To respond sensitively to marginalised discourses in literature and culture

PROGRAMME SPECIFIC OUTCOMES

On successful completion of the Foundation Course in English, students will be able to

PSO1	employ their skills in listening, speaking, reading, writing and knowledge of English grammar for effective communication.
PSO 2	utilise their skills of the English language for employability/entrepreneurship.
PSO 3	use the knowledge and skills of the English language for excellence in their chosen domain of study/employment.
PSO 4	respond sensitively and empathetically to plurality and diversity using their knowledge and skills in the English language.
PSO 5	fulfil their social and civic responsibilities using the listening, speaking, reading and writing skills acquired.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.C.A. / B.S.W. DEGREE****FOUNDATION COURSE : ENGLISH****COURSES OF STUDY****(Effective from the academic year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23EL/FC/EC13	English for Communication I	3	3	1	0	3	50	50	100
23EL/FC/LL13	Language through Literature I	3	3	1	0	3	50	50	100
SEMESTER-II									
23EL/FC/EC23	English for Communication II	3	3	1	0	3	50	50	100
23EL/FC/LL23	Language through Literature II	3	3	1	0	3	50	50	100
SEMESTER-III									
23EL/FC/EC33	English for Communication III	3	3	1	0	3	50	50	100
23EL/FC/LL33	Language through Literature III	3	3	1	0	3	50	50	100
SEMESTER-IV									
23EL/FC/EC43	English for Communication IV	3	3	1	0	3	50	50	100
23EL/FC/LL43	Language through Literature IV	3	3	1	0	3	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS, CHENNAI 600086)

B.A. / B.Sc. / B.V.A. / B. Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENGLISH FOR COMMUNICATION – I

CODE: 23EL/FC/EC13

CREDITS:3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to communicate ideas/opinions effectively and produce appropriate responses
- To equip students with listening skills required to comprehend information while listening to conversations/instructions
- To train students in organising ideas coherently in a paragraph
- To train students in aspects of formal written communication
- To train them to identify relevant information and comprehend facts, ideas, opinions and attitudes while reading a newspaper/brochure

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language elements while introducing, greeting, asking for permission and thanking; demonstrate the ability to listen for specific information in conversations and instructions; and recall and use articles, prepositions, simple present tense and present continuous tense appropriately.	K1
CO2	extend language elements to perform specific speaking functions; interpret aural inputs in conversations and instructions; demonstrate letter writing skills.	K2
CO3	apply appropriate language elements while introducing, greeting, asking for permission and thanking; identify and employ syntactic structures and sequence ideas to construct a descriptive paragraph .	K3
CO4	correlate appropriate language elements to introducing, greeting, asking for permission and thanking; infer meaning from newspaper reports and brochures.	K4
CO5	choose appropriate language elements while introducing, greeting, asking for permission and thanking; evaluate information and determine meaning in newspaper reports and brochures.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Greeting, Introducing self and others 1.2 Asking for and giving permission 1.3 Thanking	K1-K5	9	1-5
2	<u>Listening</u> 2.1 Listening for gist 2.2 Listening for detail - Conversations 2.3 Listening for detail – Instructions	K1, K2	6	1,2
3	<u>Grammar</u> 3.1 Articles 3.2 Prepositions 3.3 Simple Present, Present Continuous	K1	12	1
4	<u>Writing</u> 4.1 Pre-writing 4.2 Organising 4.3 Descriptive writing – writing a paragraph 4.3.1 Self and others 4.3.2 Places 4.4 Letter writing - Leave letter and letter of apology	K2, K3	15	2,3
5	<u>Reading</u> 5.1 Brochures 5.2 Newspaper Reports	K4, K5	10	4,5

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Duration: 90 minutes

Units 1 and 2 not to be tested.

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10 =10 marks (1 out of 2) (Letter writing)
	K3	10	1x10=10 marks (1 out of 2) (Paragraph writing)
C	K4	10	2x5= 10 marks (CA 1 Brochures, CA 2 Newspaper report)
	K5	10	2x5= 10 marks (CA 1 Brochures, CA 2 Newspaper report)

Other Components: Total Marks: 50

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Units 1 and 2 not to be tested.

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10 =20 marks (2 out of 3) (Letter writing)
	K3	20	2x10=20 marks (2 out of 3) (Paragraph writing)
C	K4	20	4x5= 20 marks (Brochures)
	K5	20	4x5= 20 marks (Newspaper report)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/FC/EC13												
	Course Title: ENGLISH FOR COMMUNICATION - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	1	3	3	2	2	3	3	3	3	2	3
CO 2	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 3	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 4	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 5	2	1	1	3	3	2	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

B.A. / B.Sc. / B.V.A. / B. Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023–2024)

LANGUAGE THROUGH LITERATURE – I

CODE: 23EL/FC/LL13

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To equip students with presentation skills
- To train students to identify and comprehend information from short narratives
- To help students appreciate short stories, essays and poems
- To train students to use tense appropriately
- To train students to write letters and descriptive paragraphs

COURSE LEARNING OUTCOMES

On the successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language elements for oral presentations; demonstrate the ability to listen for specific information in short narratives; and recall and use tenses appropriately.	K1
CO2	extend language elements for oral presentations; interpret aural inputs in short narratives; demonstrate letter writing skills.	K2
CO3	apply appropriate language elements for oral presentations; identify and employ syntactic structures and sequence ideas to construct a descriptive paragraph.	K3
CO4	correlate appropriate language elements for oral presentations; infer meaning from literary texts.	K4
CO5	choose appropriate language elements for oral presentations; evaluate information and interpret literary texts.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Individual oral presentation on any topic (2-3 minutes)	K1-K5	8	1-5
2	<u>Listening</u> 2.1 Listening to short narratives (5 minutes)	K1, K2	4	1,2
3	<u>Grammar</u> 3.1 All tenses	K1	15	1
4	<u>Writing</u> 4.1 Letter writing - apology, permission 4.2 Paragraph writing - Describing people, places, objects	K2, K3	15	2,3
5	<u>Reading</u> 5.1 Barbara G Walker: Snow Night 5.2 Muthal Naidoo: The Bridge Playing Rain Queen 5.3 Perumal Murugan: The Night the Owls Stopped Crying 5.4 Rumi: Chinese Art and Greek Art 5.5 Nissim Ezekiel: The Patriot 5.6 Tishani Doshi: Homecoming	K4, K5	10	4,5

PATTERN OF ASSESSMENT

Continuous Assessment: **Total Marks: 50**

Duration: 90 minutes

Units 1 and 2 not to be tested.

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10=10 marks (1 out of 2) (Letter writing)
	K3	10	1x10=10 marks (1 out of 2) (Paragraph writing)
C	K4	10	2x5= 10 marks (Questions to be based on a passage from texts in Unit 5)
	K5	10	1x10 = 10 marks (1 out of 2) (Essay questions from texts in Unit 5)

Other Components: **Total Marks: 50**
Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: **Total Marks: 100** **Duration: 3 hours**

Unit 1 and 2 not to be tested.

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10=20 marks (2 out of 3) (Letter writing)
	K3	20	2x10=20 marks (2 out of 3) (Paragraph writing)
C	K4	20	4x5= 20 marks (Questions to be based on a passage from texts in Unit 5)
	K5	20	2x10 = 20 marks (2 out of 3) (Essay questions from texts in Unit 5)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/FC/LL13												
	Course Title: LANGUAGE THROUGH LITERATURE - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	3	3	2	3	3	3	3	3	2	3
CO 2	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 4	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	1	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086

B.A. / B.Sc. / B.V.A. / B. Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023-2024)

ENGLISH FOR COMMUNICATION – II

CODE: 23EL/FC/EC23

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to communicate ideas/opinions effectively and produce appropriate responses
- To train students to listen to announcements and infer meaning
- To help students use the simple and continuous forms of the past tense, future tenses and identify and use zero and first conditionals
- To train students to identify relevant information to make notes and use them to summarise a passage
- To help students identify relevant information, understand ideas/opinions/attitudes from newspapers, magazine features and to train them to read and interpret visual texts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate grammatical structures while inviting and responding to invitations, giving directions, and requesting, offering or declining help; demonstrate the ability to listen to announcements for specific information; recall and use zero and first conditionals, simple past, past continuous and future tenses	K1
CO2	extend language elements to perform specific speaking functions; interpret aural inputs in announcements; demonstrate note making skills	K2
CO3	apply appropriate language elements while inviting and responding to invitations, giving directions, and requesting, offering or declining help; identify and employ syntactic structures and sequence ideas to construct a summary	K3
CO4	correlate appropriate language elements to inviting and responding to invitations, giving directions, and requesting, offering or declining help; infer meaning from newspapers, magazine features	K4
CO5	choose appropriate language elements while inviting and responding to invitations, giving directions, and requesting, offering or declining help; evaluate information and determine meaning in visual texts	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Inviting, accepting and declining invitations 1.2 Asking for and giving directions 1.3 Asking for, offering and accepting/rejecting help	K1-K5	10	1-5
2	<u>Listening</u> 2.1 Announcements	K1, K2	7	1, 2
3	<u>Grammar</u> 3.1 Past simple and continuous, future tense 3.2 Zero and first conditionals	K1	15	1
4	<u>Writing</u> 4.1 Note making 4.2 Summarising	K2, K3	10	2, 3
5	<u>Reading</u> 5.1 Newspaper/magazine features 5.2 Charts, maps, graphs 5.3 Comic strips	K4, K5	10	4, 5

PATTERN OF ASSESSMENT

Unit 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10 =10 marks (Note making)
	K3	10	1x10=10 marks (Summary Writing)
C	K4	10	2x5= 10 marks (CA 1 Newspaper/magazine feature, CA 2 charts, maps, graphs, comic strips)
	K5	10	2x5= 10 marks (CA 1 Newspaper/magazine feature, CA 2 charts, maps, graphs, comic strips)

Other Components:

Total Marks: 50

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: Total Marks: 100
Unit 1 and 2 not to be tested.

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10 =20 marks (Note making)
	K3	20	2x10=20 marks (Summarising)
C	K4	20	4x5= 20 marks (Newspaper/Magazine feature)
	K5	20	4x5= 20 marks (Charts, maps, graphs, comic strips)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/FC/EC23												
	Course Title: ENGLISH FOR COMMUNICATION - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	1	3	3	2	2	3	3	3	3	2	3
CO 2	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 3	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 4	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 5	2	1	1	3	3	2	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

B.A. / B.Sc. / B.V.A. / B. Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023–2024)

LANGUAGE THROUGH LITERATURE – II

CODE: 23EL/FC/LL23

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To recollect the rules of subject-verb agreement and demonstrate an understanding in reporting spoken information
- To interpret information by listening to news articles and announcements
- To select and use appropriate structures and ideas for note making and summary writing
- To infer meaning from short stories, speeches and poems and exhibit an understanding of them
- To determine appropriate language elements for role play

COURSE LEARNING OUTCOMES

On the successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	choose appropriate language for role play; identify specific information listening to news/announcements; recall the rules of subject-verb agreement, understand and report spoken information appropriately.	K1
CO2	extend language elements for role play; interpret aural inputs in news articles and announcements; demonstrate effective note making skills.	K2
CO3	apply appropriate language elements for role play; identify and employ syntactic structures and sequence ideas for summary writing.	K3
CO4	correlate appropriate language elements for role play; infer meaning from literary texts.	K4
CO5	choose appropriate language elements for role play; evaluate and appraise literary texts.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Role-play, maximum five in a group, 10-12 minutes per group	K1- K5	8	1-5
2	<u>Listening</u> 2.1 News/Announcements (5 minutes)	K1, K2	4	1, 2
3	<u>Grammar</u> 3.1 Subject-verb agreement, reported speech	K1	15	1
4	<u>Writing</u> 4.1 Note Making 4.2 Summary Writing	K2, K3	15	2, 3
5	<u>Reading</u> 5.1 Roald Dahl: Lamb to the Slaughter 5.2 O Henry: A Retrieved Reformation 5.3 Judy Brady: I Want a Wife 5.4 e e cummings: somewhere i have never travelled 5.5 Alfred, Lord Tennyson: Ulysses	K4, K5	10	4, 5

PATTERN OF ASSESSMENT

Units 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10=10 marks (1 out of 2) (Note making)
	K3	10	1x10=10 marks (1 out of 2) (Summary Writing)
C	K4	10	2x5= 10 marks Questions to be based on a passage from prescribed texts in Unit 5
	K5	10	1x10 = 10 marks (1 out of 2) Essay questions from prescribed texts in Unit 5

Other Components:

Total Marks: 50

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Units 1 and 2 not to be tested.

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10=20 marks (Note making)
	K3	20	2x10=20 marks (Summary Writing)
C	K4	20	4x5= 20 marks Questions to be based on a passage from prescribed texts in Unit 5
	K5	20	2x10 = 20 marks (2 out of 3) Essay questions from prescribed texts in Unit 5

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/FC/LL23												
	Course Title: LANGUAGE THROUGH LITERATURE -II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	3	3	2	3	3	3	3	3	2	3
CO 2	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 4	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	1	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

B.A. / B.Sc. / B.V.A. /B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENGLISH FOR COMMUNICATION – III

CODE: 23EL/FC/EC33

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to use appropriate modals to express preferences, give instructions and make and respond to complaints
- To train students to listen to and comprehend short narratives and news reports
- To facilitate the use of second conditionals and help students use perfect and perfect continuous forms of the present and past tenses
- To impart the skills required to compose coherent narrative essays and letters of permission and application
- To train students to identify, comprehend and interpret facts, ideas, opinions and attitudes while reading an opinion piece/advertisement

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language elements while expressing preferences, giving instructions and making and responding to complaints; demonstrate the ability to listen for specific information in short narratives and news reports; and recall and use second conditionals, perfect tenses (past, present, future) and perfect continuous tenses (present and past) appropriately.	K1
CO2	extend language elements to perform specific speaking functions; interpret aural inputs in short narratives and news reports and demonstrate letter writing skills.	K2
CO3	apply appropriate language elements while expressing preferences, giving instructions and making and responding to complaints; identify and employ syntactic structures and sequence ideas to construct short narratives.	K3
CO4	correlate appropriate language elements to express preferences, give instructions and make and respond to complaints; and infer meaning from advertisements and opinion pieces.	K4
CO5	choose appropriate language elements while expressing preferences, giving instructions and making and responding to complaints; and evaluate information and determine meaning in advertisements and opinion pieces.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Expressing preferences 1.2 Giving instructions 1.3 Making and responding to complaints	K1-K5	16	1-5
2	<u>Listening</u> 2.1 Short narratives 2.2 News reports	K1, K2	5	1, 2
3	<u>Grammar</u> 3.1 Perfect tenses (past, present, future) 3.2 Perfect continuous tenses (present and past) 3.3 Second conditional	K1	11	1
4	<u>Writing</u> 4.1 Letter writing: permission, application 4.2 Narrative writing: developing hints into a story, narrating an incident	K2, K3	8	2, 3
5	<u>Reading</u> 5.1 Opinion pieces 5.2 Advertisements	K4, K5	12	4, 5

PATTERN OF ASSESSMENT

Unit 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10 =10 marks (1 out of 2) (Letter Writing)
	K3	10	1x10=10 marks (1 out of 2) (Narrative Writing)
C	K4	10	2x5= 10 marks (CA 1 Advertisement, CA 2 Opinion piece)
	K5	10	2x5= 10 marks (CA 1 Advertisement, CA 2 Opinion piece)

Other Components:

Total Marks: 50

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: Total Marks: 100
Unit 1 and 2 not to be tested.

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10 =20 marks (2 out of 3) (Letter Writing)
	K3	20	2x10=20 marks (2 out of 3) (Narrative Writing)
C	K4	20	4x5= 20 marks (Advertisement)
	K5	20	4x5= 20 marks (Opinion piece)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/FC/EC33												
	Course Title: ENGLISH FOR COMMUNICATION - III												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	1	3	3	2	2	3	3	3	3	2	3
CO 2	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 3	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 4	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 5	2	1	1	3	3	2	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

B.A. / B.Sc. / B.V.A. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023 – 2024)

LANGUAGE THROUGH LITERATURE – III

CODE: 23EL/FC/LL33

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To train students in skills related to interviews
- To equip students to understand and infer meaning poems, plays and prose pieces
- To train students to use conditional clauses accurately
- To help students acquire effective communication skills with appropriate use of idioms
- To train students to identify and make use of the mechanics of narrative writing and drafting emails

COURSE LEARNING OUTCOMES

On the successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language for job interviews; identify specific information from listening to interviews; recognise conditional clauses and idioms for appropriate usage	K1
CO2	identify appropriate language and its different structures for job interviews; comprehend information from listening to interviews; demonstrate effective email writing skills	K2
CO3	apply appropriate language and its different structures to face job interviews; construct a well-organised and coherent narrative essay	K3
CO4	organise appropriate language elements to effectively face job interviews; infer meaning from literary texts	K4
CO5	assess appropriate language elements to face job interviews with confidence and professionalism; evaluate and appreciate literary texts	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Job interviews, 5 minutes per student	K1-K5	8	1-5
2	<u>Listening</u> 2.1 Interviews (10-12 minutes)	K1, K2	4	1, 2
3	<u>Grammar</u> 3.1 Conditionals 3.2 Idioms (health, weather, food)	K1	15	1
4	<u>Writing</u> 4.1. Email – requesting information, complaint 4.2 Narrative writing - Narrating an incident	K2, K3	15	2,3
5	<u>Reading</u> 5.1 Carol Ann Duffy: Valentine 5.2 Chimamanda Adichie: The Danger of a Single Story 5.3 Mahesh Dattani: Where There is a Will	K4, K5	10	4,5

PATTERN OF ASSESSMENT

Units 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10=10 marks (1 out of 2) (Email)
	K3	10	1x10=10 marks (1 out of 2) (Narrative Writing)
C	K4	10	2x5= 10 marks Questions to be based on a passage from prescribed texts in Unit 5
	K5	10	1x10 = 10 marks (1 out of 2) Essay questions from prescribed texts in Unit 5

Other Components:

Total Marks: 50

Listening and Speaking tasks (different kinds of interviews)

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Units 1 and 2 not to be tested.

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10=20 marks (2 out of 3) (Email)
	K3	20	2x10=20 marks (2 out of 3) (Narrative Writing)
C	K4	20	4x5= 20 marks Questions to be based on a passage from prescribed texts in Unit 5
	K5	20	2x10 = 20 marks (2 out of 3) Essay questions from prescribed texts in Unit 5

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/FC/LL33												
	Course Title: LANGUAGE THROUGH LITERATURE - III												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	3	3	2	3	3	3	3	3	2	3
CO 2	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 4	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	1	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

B.A. / B.Sc. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023–2024)

ENGLISH FOR COMMUNICATION – IV

CODE: 23EL/FC/EC43

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to use appropriate structures to ask and give opinions and to agree and disagree; to use appropriate modals to give and accept suggestions
- To equip students with listening skills required to comprehend information while listening actively to interviews and talks
- To facilitate students in organising ideas coherently to compose a discursive essay
- To train students in aspects of formal email communication for complaints and requesting information
- To train students to identify the tone and mood and infer meaning from short stories and poems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language elements while asking and giving opinions, giving and accepting suggestions, agreeing and disagreeing; demonstrate the ability to listen to infer meanings in interviews and talks; and recall and use advanced subject-verb agreement and third conditionals appropriately.	K1
CO2	extend language elements to perform specific speaking functions; interpret aural inputs in interviews and talks; demonstrate email writing skills	K2
CO3	apply appropriate language elements while asking and giving opinions, giving and accepting suggestions, agreeing and disagreeing; identify and employ syntactic structures and sequence ideas to construct a discursive essay	K3
CO4	correlate appropriate language elements to asking and giving opinions, giving and accepting suggestions, agreeing and disagreeing; infer meaning from short stories and poems	K4
CO5	choose appropriate language elements while asking and giving opinions, giving and accepting suggestions, agreeing and disagreeing; evaluate form and themes and determine meaning in short stories and poems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Asking for, giving and responding to opinions 1.2 Giving and responding to suggestions 1.3 Conveying pleasant and unpleasant information	K1-K5	10	1-5
2	<u>Listening</u> 2.1 Interviews 2.2 Talks	K1, K2	3	1, 2
3	<u>Grammar</u> 3.1 Advanced subject-verb agreement (eg. phrases, either...or, neither...nor) 3.2 Third conditional	K1	10	1
4	<u>Writing</u> 4.1 Emails: complaints, requesting information 4.2 Discursive Essay: Comparing and contrasting, persuading	K2, K3	10	2, 3
5	<u>Reading</u> 5.1 Short stories 5.2 Poems	K4, K5	12	4, 5

PATTERN OF ASSESSMENT

Unit 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10 =10 marks (1 out of 2) (Email Writing)
	K3	10	1x10=10 marks (1 out of 2) (Discursive Essay)
C	K4	10	2x5= 10 marks (CA 1 poems, CA 2 short stories)
	K5	10	2x5= 10 marks (CA 1 poems, CA 2 short stories)

Other Components: Total Marks: 50

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Unit 1 and 2 not to be tested.

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10 =20 marks (2 out of 3) (Email Writing)
	K3	20	2x10=20 marks (2 out of 3) (Discursive Essay)
C	K4	20	4x5= 20 marks (CA 1 poems, CA 2 short stories)
	K5	20	4x5= 20 marks (CA 1 poems, CA 2 short stories)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/FC/EC43												
	Course Title: ENGLISH FOR COMMUNICATION - IV												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	1	3	3	2	2	3	3	3	3	2	3
CO 2	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 3	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 4	2	1	1	3	3	2	2	3	3	3	3	3	3
CO 5	2	1	1	3	3	2	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

B.A. / B.Sc. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023–2024)

LANGUAGE THROUGH LITERATURE – IV

CODE: 23EL/FC/LL43

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To acquaint students with some nuances of language use
- To equip students with the basic items of grammar
- To train students to coherently present points of view in formal writing
- To help students to understand, appreciate and enjoy poetry and fiction
- To train students to use appropriate language elements to write discursive essays

COURSE LEARNING OUTCOMES

On the successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language elements in group discussion; demonstrate the ability to use idioms, active and passive voice appropriately; identify information from listening to panel discussions, speeches and lectures	K1
CO2	infer information from listening to panel discussions, speeches and lectures; extend language elements to engage in group discussions; demonstrate letter writing skills	K2
CO3	apply appropriate language elements and structures to articulate ideas and views in a clear and succinct manner during a group discussion; identify and employ syntactic structures and sequence ideas to construct effective and coherent discursive essays	K3
CO4	correlate appropriate language elements to present arguments in a group discussion; infer meaning from poems and fictional texts	K4
CO5	interpret and analyse poems and fictional texts to present their appreciation effectively; choose appropriate language elements during a group discussion	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Group Discussion, maximum five in a group, 10-12 minutes per group	K1- K5	8	1-5
2	<u>Listening</u> 2.1 Panel Discussions, Speeches, Lectures (10-12 minutes)	K1, K2	4	1, 2
3	<u>Grammar</u> 3.1 Active and passive voice, Idioms (relationship, workplace)	K1	15	1
4	<u>Writing</u> 4.1 Letter Writing – permission, application 4.2 Writing a Curriculum Vitae 4.3 Discursive Essay: Comparing and contrasting, Presenting an argument	K2, K3	15	2, 3
5	<u>Reading</u> 5.1 Emily Dickinson: I'm Nobody! Who are you? 5.2 Arun Kolatkar: An Old Woman 5.3 Kate Chopin: Story of an Hour 5.4 Jaya Bhattacharji Rose: Christmas Pakwan 5.5 R.K.Narayan: An Astrologer's Day	K4, K5	10	4, 5

PATTERN OF ASSESSMENT

Units 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10=10 marks (1 out of 2) (Letter Writing)
	K3	10	1x10=10 marks (1 out of 2) (Paragraph Writing)
C	K4	10	2x5= 10 marks Questions to be based on a passage from prescribed texts in Unit 5
	K5	10	1x10 = 10 marks (1 out of 2) Essay questions from prescribed texts in Unit 5

Other Components:

Total Marks: 5

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours****Units 1 and 2 not to be tested.**

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10=20 marks (2 out of 3) (Letter Writing)
	K3	20	2x10=20 marks (2 out of 3) (Paragraph Writing)
C	K4	20	4x5= 20 marks Questions to be based on a passage from prescribed texts in Unit 5
	K5	20	2x10 = 20 marks (2 out of 3) Essay questions from prescribed texts in Unit 5

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EL/FC/LL43												
	Course Title: LANGUAGE THROUGH LITERATURE - IV												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	3	3	2	3	3	3	3	3	2	3
CO 2	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 4	3	3	1	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	1	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

B.Voc. PROGRAMME

FOUNDATION COURSE - ENGLISH

(CHOICE BASED CREDIT SYSTEM)

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)**

SYLLABUS

(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

FOUNDATION COURSE: ENGLISH

VISION OF THE DEPARTMENT

To encourage students to evolve into sensitive, independent individuals and agents of social change through the study of literatures from across different regions.

MISSION OF THE DEPARTMENT

- To impart language and communication skills through participatory learning in order to aid employability
- To encourage problem solving and critical thinking in students
- To explore newer areas of research across regions in English Studies
- To equip students with knowledge and critical thinking skills which will aid them in questioning dominant narratives in English Studies so that they become agents of social change and help
- To continually update our programme to be contemporaneous and inclusive
- To respond sensitively to marginalised discourses in literature and culture

PROGRAMME SPECIFIC OUTCOMES

On successful completion of the Foundation Course in English, students will be able to

PSO1	employ their skills in listening, speaking, reading, writing and knowledge of English grammar for effective communication.
PSO 2	utilise their skills of the English language for employability/entrepreneurship.
PSO 3	use the knowledge and skills of the English language for excellence in their chosen domain of study/employment.
PSO 4	respond sensitively and empathetically to plurality and diversity using their knowledge and skills in the English language.
PSO 5	fulfil their social and civic responsibilities using the listening, speaking, reading and writing skills acquired.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Voc Degree Programme

FOUNDATION COURSE : ENGLISH

COURSES OF STUDY

(Effective from the academic year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23EL/FC/EC14	English for Communication I	4	4	0	0	3	25	75	100	
SEMESTER-II										
23EL/FC/EC24	English for Communication II	4	4	0	0	3	25	75	100	
SEMESTER-III										
23EL/FC/EC34	English for Communication III	4	4	0	0	3	25	75	100	
SEMESTER-IV										
23EL/FC/EC44	English for Communication IV	4	4	0	0	3	25	75	100	

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

BACHELOR OF VOCATIONAL (B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENGLISH FOR COMMUNICATION – I

CODE: 23EL/FC/EC14

CREDITS:4

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to communicate ideas/opinions effectively and produce appropriate responses
- To equip students with listening skills required to comprehend information while listening to conversations/instructions
- To train students in organising ideas coherently in a paragraph
- To train students in aspects of formal written communication
- To train them to identify relevant information and comprehend facts, ideas, opinions and attitudes while reading a newspaper/brochure

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language elements while introducing, greeting, asking for permission and thanking; demonstrate the ability to listen for specific information in conversations and instructions; and recall and use articles, prepositions, simple present tense and present continuous tense appropriately.	K1
CO2	extend language elements to perform specific speaking functions; interpret aural inputs in conversations and instructions; demonstrate letter writing skills.	K2
CO3	apply appropriate language elements while introducing, greeting, asking for permission and thanking; identify and employ syntactic structures and sequence ideas to construct a descriptive paragraph .	K3
CO4	correlate appropriate language elements to introducing, greeting, asking for permission and thanking; infer meaning from newspaper reports and brochures.	K4
CO5	choose appropriate language elements while introducing, greeting, asking for permission and thanking; evaluate information and determine meaning in newspaper reports and brochures.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Greeting, Introducing self and others 1.2 Asking for and giving permission 1.3 Thanking	K1-K5	9	1-5
2	<u>Listening</u> 2.1 Listening for gist 2.2 Listening for detail - Conversations 2.3 Listening for detail – Instructions	K1, K2	6	1,2
3	<u>Grammar</u> 3.1 Articles 3.2 Prepositions 3.3 Simple Present, Present Continuous	K1	12	1
4	<u>Writing</u> 4.1 Pre-writing 4.2 Organising 4.3 Descriptive writing – writing a paragraph 4.3.1 Self and others 4.3.2 Places 4.4 Letter writing - Leave letter and letter of apology	K2, K3	15	2,3
5	<u>Reading</u> 5.1 Brochures 5.2 Newspaper Reports	K4, K5	10	4,5

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Duration: 90 minutes

Units 1 and 2 not to be tested.

Section	Knowledge Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10 =10 marks (1 out of 2) (Letter writing)
	K3	10	1x10=10 marks (1 out of 2) (Paragraph writing)
C	K4	10	2x5= 10 marks (CA 1 Brochures, CA 2 Newspaper report)
	K5	10	2x5= 10 marks (CA 1 Brochures, CA 2 Newspaper report)

Other Components: Total Marks: 50

Listening and Speaking tasks

Knowledge Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Units 1 and 2 not to be tested.

Section	Knowledge Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10 =20 marks (2 out of 3) (Letter writing)
	K3	20	2x10=20 marks (2 out of 3) (Paragraph writing)
C	K4	20	4x5= 20 marks (Brochures)
	K5	20	4x5= 20 marks (Newspaper report)

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

BACHELOR OF VOCATIONAL (B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENGLISH FOR COMMUNICATION – II

CODE: 23EL/FC/EC24

CREDITS:4

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to communicate ideas/opinions effectively and produce appropriate responses
- To train students to listen to announcements and infer meaning
- To help students use the simple and continuous forms of the past tense, future tenses and identify and use zero and first conditionals
- To train students to identify relevant information to make notes and use them to summarise a passage
- To help students identify relevant information, understand ideas/opinions/attitudes from newspapers, magazine features and to train them to read and interpret visual texts

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate grammatical structures while inviting and responding to invitations, giving directions, and requesting, offering or declining help; demonstrate the ability to listen to announcements for specific information; recall and use zero and first conditionals, simple past, past continuous and future tenses	K1
CO2	extend language elements to perform specific speaking functions; interpret aural inputs in announcements; demonstrate note making skills	K2
CO3	apply appropriate language elements while inviting and responding to invitations, giving directions, and requesting, offering or declining help; identify and employ syntactic structures and sequence ideas to construct a summary	K3
CO4	correlate appropriate language elements to inviting and responding to invitations, giving directions, and requesting, offering or declining help; infer meaning from newspapers, magazine features	K4
CO5	choose appropriate language elements while inviting and responding to invitations, giving directions, and requesting, offering or declining help; evaluate information and determine meaning in visual texts	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Inviting, accepting and declining invitations 1.2 Asking for and giving directions 1.3 Asking for, offering and accepting/rejecting help	K1-K5	10	1-5
2	<u>Listening</u> 2.1 Announcements	K1, K2	7	1, 2
3	<u>Grammar</u> 3.1 Past simple and continuous, future tense 3.2 Zero and first conditionals	K1	15	1
4	<u>Writing</u> 4.1 Note making 4.2 Summarising	K2, K3	10	2, 3
5	<u>Reading</u> 5.1 Newspaper/magazine features 5.2 Charts, maps, graphs 5.3 Comic strips	K4, K5	10	4, 5

PATTERN OF ASSESSMENT

Unit 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10 =10 marks (Note making)
	K3	10	1x10=10 marks (Summary Writing)
C	K4	10	2x5= 10 marks (CA 1 Newspaper/magazine feature, CA 2 charts, maps, graphs, comic strips)
	K5	10	2x5= 10 marks (CA 1 Newspaper/magazine feature, CA 2 charts, maps, graphs, comic strips)

Other Components:

Total Marks: 50

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: Total Marks: 100
Unit 1 and 2 not to be tested.

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10 =20 marks (Note making)
	K3	20	2x10=20 marks (Summarising)
C	K4	20	4x5= 20 marks (Newspaper/Magazine feature)
	K5	20	4x5= 20 marks (Charts, maps, graphs, comic strips)

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

BACHELOR OF VOCATIONAL (B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENGLISH FOR COMMUNICATION – III

CODE: 23EL/FC/EC34

CREDITS:4

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to use appropriate modals to express preferences, give instructions and make and respond to complaints
- To train students to listen to and comprehend short narratives and news reports
- To facilitate the use of second conditionals and help students use perfect and perfect continuous forms of the present and past tenses
- To impart the skills required to compose coherent narrative essays and letters of permission and application
- To train students to identify, comprehend and interpret facts, ideas, opinions and attitudes while reading an opinion piece/advertisement

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language elements while expressing preferences, giving instructions and making and responding to complaints; demonstrate the ability to listen for specific information in short narratives and news reports; and recall and use second conditionals, perfect tenses (past, present, future) and perfect continuous tenses (present and past) appropriately.	K1
CO2	extend language elements to perform specific speaking functions; interpret aural inputs in short narratives and news reports and demonstrate letter writing skills.	K2
CO3	apply appropriate language elements while expressing preferences, giving instructions and making and responding to complaints; identify and employ syntactic structures and sequence ideas to construct short narratives.	K3
CO4	correlate appropriate language elements to express preferences, give instructions and make and respond to complaints; and infer meaning from advertisements and opinion pieces.	K4
CO5	choose appropriate language elements while expressing preferences, giving instructions and making and responding to complaints; and evaluate information and determine meaning in advertisements and opinion pieces.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Expressing preferences 1.2 Giving instructions 1.3 Making and responding to complaints	K1-K5	16	1-5
2	<u>Listening</u> 2.1 Short narratives 2.2 News reports	K1, K2	5	1, 2
3	<u>Grammar</u> 3.1 Perfect tenses (past, present, future) 3.2 Perfect continuous tenses (present and past) 3.3 Second conditional	K1	11	1
4	<u>Writing</u> 4.1 Letter writing: permission, application 4.2 Narrative writing: developing hints into a story, narrating an incident	K2, K3	8	2, 3
5	<u>Reading</u> 5.1 Opinion pieces 5.2 Advertisements	K4, K5	12	4, 5

PATTERN OF ASSESSMENT

Unit 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10 =10 marks (1 out of 2) (Letter Writing)
	K3	10	1x10=10 marks (1 out of 2) (Narrative Writing)
C	K4	10	2x5= 10 marks (CA 1 Advertisement, CA 2 Opinion piece)
	K5	10	2x5= 10 marks (CA 1 Advertisement, CA 2 Opinion piece)

Other Components:

Total Marks: 50

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: Total Marks: 100
Unit 1 and 2 not to be tested.

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10 =20 marks (2 out of 3) (Letter Writing)
	K3	20	2x10=20 marks (2 out of 3) (Narrative Writing)
C	K4	20	4x5= 20 marks (Advertisement)
	K5	20	4x5= 20 marks (Opinion piece)

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

BACHELOR OF VOCATIONAL (B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENGLISH FOR COMMUNICATION – IV

CODE: 23EL/FC/EC44

CREDITS:4

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to use appropriate structures to ask and give opinions and to agree and disagree; to use appropriate modals to give and accept suggestions
- To equip students with listening skills required to comprehend information while listening actively to interviews and talks
- To facilitate students in organising ideas coherently to compose a discursive essay
- To train students in aspects of formal email communication for complaints and requesting information
- To train students to identify the tone and mood and infer meaning from short stories and poems

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recall appropriate language elements while asking and giving opinions, giving and accepting suggestions, agreeing and disagreeing; demonstrate the ability to listen to infer meanings in interviews and talks; and recall and use advanced subject-verb agreement and third conditionals appropriately.	K1
CO2	extend language elements to perform specific speaking functions; interpret aural inputs in interviews and talks; demonstrate email writing skills	K2
CO3	apply appropriate language elements while asking and giving opinions, giving and accepting suggestions, agreeing and disagreeing; identify and employ syntactic structures and sequence ideas to construct a discursive essay	K3
CO4	correlate appropriate language elements to asking and giving opinions, giving and accepting suggestions, agreeing and disagreeing; infer meaning from short stories and poems	K4
CO5	choose appropriate language elements while asking and giving opinions, giving and accepting suggestions, agreeing and disagreeing; evaluate form and themes and determine meaning in short stories and poems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Speaking</u> 1.1 Asking for, giving and responding to opinions 1.2 Giving and responding to suggestions 1.3 Conveying pleasant and unpleasant information	K1-K5	10	1-5
2	<u>Listening</u> 2.1 Interviews 2.2 Talks	K1, K2	3	1, 2
3	<u>Grammar</u> 3.1 Advanced subject-verb agreement (eg. phrases, either...or, neither...nor) 3.2 Third conditional	K1	10	1
4	<u>Writing</u> 4.1 Emails: complaints, requesting information 4.2 Discursive Essay: Comparing and contrasting, persuading	K2, K3	10	2, 3
5	<u>Reading</u> 5.1 Short stories 5.2 Poems	K4, K5	12	4, 5

PATTERN OF ASSESSMENT

Unit 1 and 2 not to be tested.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 marks (Grammar)
B	K2	10	1x10 =10 marks (1 out of 2) (Email Writing)
	K3	10	1x10=10 marks (1 out of 2) (Discursive Essay)
C	K4	10	2x5= 10 marks (CA 1 poems, CA 2 short stories)
	K5	10	2x5= 10 marks (CA 1 poems, CA 2 short stories)

Other Components: **Total Marks: 50**

Listening and Speaking tasks

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5	10

End-Semester Examination: **Total Marks: 100**

Duration: 3 hours

Unit 1 and 2 not to be tested.

Section	Cognitive Level	Marks	Pattern
A	K1	20	20x1=20 marks (Grammar)
B	K2	20	2x10 =20 marks (2 out of 3) (Email Writing)
	K3	20	2x10=20 marks (2 out of 3) (Discursive Essay)
C	K4	20	4x5= 20 marks (CA 1 poems, CA 2 short stories)
	K5	20	4x5= 20 marks (CA 1 poems, CA 2 short stories)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

FOUNDATION COURSE - FRENCH
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

DEPARTMENT OF FRENCH

PROGRAMME DESCRIPTION

The Department of French was started in 1947 in order to give students the opportunity to learn a foreign language. The focus of the department is on the development of the basic language skills such as oral and written comprehension and communication. Emphasis is laid on spoken French through the study of the French language and civilisation, and the assessment of spoken French is an essential component of the testing pattern.

Authentic documents used for study help students to improve their knowledge of contemporary French civilisation and culture. Students are also exposed to French literature through the study of simple literary texts.

The French culture and civilisation give an insight of the status of European women. This enables the students to broaden their perspective of the role of women in a society. The emphasis of procuring a green environment is dealt with in the syllabus designed. The questions included in the exercises induce the students to become environment friendly in future.

French films are used to assess the ability of the students to understand the native speakers. These French films are considered as one of the other component evaluation methods. Learning is also enabled through short French dialogue videos, French songs and podcasts.

Stella Maris College's association with the French language dates back to the inception of the institution. The arrival of the Franciscan Sisters in India not only heralded a new era in women's education but also pioneered the study of French as a foreign language. Among the pioneers of the Department of French, Mother M. Chapdalene (Moissonier), fmm, a French national, is remembered with gratitude by her students of the fifties and sixties for her commitment and dedication to the teaching of French.

The birth of the French Club, "Cercle des Francophiles" in 2003 provided a platform for the students to display their talents. The cultural activities served to sustain the interest of the students in the language.

When the College became autonomous in 1987, French was introduced as a Foundation Course. The focus of study which, until then, was grammar and literature, shifted to the French language, culture and civilisation. Since the late nineties, in addition to the regular courses, the department offered Business French and Commercial Correspondence to students of Commerce to help them meet the requirements of the job market.

In 2011, French for Beginners was introduced as a 4-credit General Elective course for undergraduates and postgraduates with no prior knowledge of French. In 2015, along with the other General Elective Courses, the department offered Spoken French for the beginners. In 2019, French for Tourism was added into the syllabus.

VISION AND MISSION OF THE DEPARTMENT

DEPARTMENT OF LANGUAGES

VISION

Expansion of the department to include inter-disciplinary and research programmes thereby honing leadership, organisational skills of students which eventually enhance their employability.

MISSION

To impart language proficiency and to facilitate the students of diverse socio, economic and cultural background to acquire linguistic and communicative skills.

To kindle participatory learning methods through student-centered activities.

To serve the student community with integrity and commitment through innovative and quality teaching.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1	To develop the knowledge of grammatical system of French language.
PSO2	To apply the knowledge of grammar in the writing.
PSO3	To identify French and Francophone writers of various origins and classify French and Francophone writings of several themes.
PSO4	To acquire the modalities of the language like listening, reading and writing.
PSO5	To use their proficiency in the French language and its culture to make pertinent comparisons with their own language and culture and thus demonstrate a critical understanding of the nature and function of both.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.C.A. / B.S.W. DEGREE****FOUNDATION COURSE : FRENCH****COURSES OF STUDY****(Effective from the academic year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23FR/FC/LF13	Introduction to French Language and Literature	3	3	1	0	3	50	50	100	
SEMESTER-II										
23FR/FC/IL23	Intermediate French and Literature	3	3	1	0	3	50	50	100	
SEMESTER-III										
23FR/FC/AL33	Advanced Language and Literature I	3	3	1	0	3	50	50	100	
SEMESTER-IV										
23FR/FC/AL43	Advanced Language and Literature II	3	3	1	0	3	50	50	100	
GENERAL ELECTIVE COURSES										
23FR/GE/SF22	Spoken French	2	2	0	0	-	50	-	100	
23FR/GE/FN22	French for Beginners	2	2	0	0	-	50	-	100	
23FR/GE/FS22	French for Business	2	2	0	0	-	50	-	100	
23FR/GE/FT22	French for Tourism	2	2	0	0	-	50	-	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023-2024)

FOUNDATION COURSE – FRENCH

INTRODUCTION TO FRENCH LANGUAGE AND LITERATURE

CODE : 23FR/FC/LF13

CREDITS : 3

LTP : 3 1 0

TOTAL TEACHING HOURS : 52

OBJECTIVE OF THE COURSE

- To remember the greeting lexis and apply in basic introduction.
- To analyze one's preferences.
- To understand an invite and respond to it.
- To read and understand the French literary texts.
- To comprehend French culture and Civilization

COURSE LEARNING OUTCOMES

On successful completion of the course, the students should be able

COs	DESCRIPTION	CL
CO1	to recall the basics of the language and the culture of France.	K1
CO2	to interpret the text and express effectively using their grammar knowledge.	K2
CO3	to apply their knowledge of vocabulary and grammar concepts in everyday life.	K3
CO4	to analyse various situations and utilise the appropriate tense	K4
CO5	to incorporate the difference between formal and informal writing using appropriate format.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Salut ! 1.1. Saluer 1.2. Entrer en contact avec quelqu'un 1.3. Se présenter 1.4. S'excuser Enchanté 1.5. Demander de se présenter 1.6. Présenter quelqu'un 1.7. La Civilisation française	K1 - K5	12	1 –5

UNIT	CONTENT	CL	Hrs	CO
2	J'adore ! 2.1. Exprimer ses goûts 2.2. Échanger sur ses projets Tu veux bien ? 2.3. Demander à quelqu'un de faire quelque chose 2.4. Demander poliment 2.5. Parler d'actions passées 2.6. La Civilisation française	K1 - K5	12	1 –5
3	On se voit quand ? 3.1. Proposer, accepter, refuser une invitation 3.2. Indiquer la date 3.3. Prendre et fixer un rendez-vous 3.4. Demander et indiquer l'heure 3.5. La Civilisation française	K1 - K5	10	1 –5
4	Bonne idée ! 4.1. Exprimer son point de vue positif et négatif 4.2. S'informer sur le prix 4.3. S'informer sur la quantité 4.4. Exprimer la quantité 4.5. La Civilisation française	K1 - K5	10	1 –5
5	Les textes littéraires 5.1. Le Petit Prince (Chapitre 1) - Antoine de Saint Exupéry 5.2. La colombe poignardée et le jet d'eau – Calligramme - Guillaume Apollinaire	K1 – K5	8	1 –5

BOOKS FOR STUDY

Mérieux RÉGINE, Loiseau YVES, *Latitudes 1, Méthode de français*, Paris : Didier, 2012.

BOOKS FOR REFERENCE

APOLLINAIRE Guillaume, *Calligrammes: Poèmes de la paix et de la guerre 1913-1916*, Paris: Gallimard, 1966.

SAINT-EXUPÉRY Antoine de, *Le Petit Prince*, Paris : Gallimard, 2007.

BERTHET Annie, HUGOT Catherine, SAMPSONIS Béatrix, WRENDENDRIES Monique, *Alter Égo 1, Méthode de français et cahier d'exercices*, Paris : Hachette, 2006.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

COCTON Marie-Noëlle, *Génération 1 Niveau A1, Méthode de français et cahier d'exercices*, Paris : Didier, 2016.

DINTILHAC Anneline, DE OLIVEIRA Anouchka, RIPAUD Delphine, DUPLEIX Dorothee, COCTON Marie-Noëlle, *Saison 1 Niveau 1, Méthode de français et cahier d'exercices*, Paris : Didier, 2015.

WEB RESOURCES

www.francparler.org

www.francaisfacile.com/exercices/

www.lepointdufle.net/

www.ccdmd.qc.ca/fr/

www.bonjourdefrance.com

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

<https://www.etudes-litteraires.com/>

www.larousse.fr/

<http://crisco.unicaen.fr/>

<https://fr.wikimini.org/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5 (Les questions sur la civilisation) 5 (Les questions sur les textes littéraires)
B	K2	10	5 (Répondez aux questions & Résumé) 5 (Le texte de compréhension)
C	K3, K4	20	20 (Les exercices de grammaire)
D	K5	10	10 (L'écriture créative)

Other Components:

Total marks: 50

Examen oral / Dictée / Document authentique / Présentation / Assignments / Test culturel
(à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs / Les exercices d'écoute

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10 (Les questions sur la civilisation) 10 (Les questions sur les textes littéraires)
B	K2	20	10 (Répondez aux questions & Résumé) 10 (Le texte de compréhension)
C	K3, K4	40	40 (Les exercices de grammaire)
D	K5	20	20 (L'écriture créative)

Section A (20 points)

La Civilisation française tirée du texte (*Latitudes 1*)

Les questions basées sur les textes littéraires

Section B (20 points)

Répondez aux questions des textes littéraires (5 points)

Résumé des textes littéraires (5 points)

Compréhension écrite d'un texte inconnu. (10 points)

Section C (40 points)

Les exercices de grammaire

Section D (20 points)

L'écriture créative (2 sujets sur 3)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FR/FC/LF13												
I	Course Title: INTRODUCTION TO FRENCH LANGUAGE AND LITERATURE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	1	3	1	2	1	3	2	2	1	3	3
CO 2	1	2	3	3	2	2	3	3	3	3	3	3	1
CO 3	2	2	3	3	2	2	2	3	3	3	1	3	1
CO 4	1	2	3	3	1	1	2	3	3	3	1	3	3
CO 5	2	3	2	3	3	2	3	3	3	3	1	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme

SYLLABUS

(Effective from the academic year 2023-2024)

FOUNDATION COURSE – FRENCH

INTERMEDIATE FRENCH AND LITERATURE

CODE: 23FR/FC/IL23

CREDITS : 3

LTP : 3 1 0

TOTAL TEACHING HOURS : 52

OBJECTIVE OF THE COURSE

- To remember the vocabulary for description and comprehend French culture and Civilization
- To understand any text and express their opinion.
- To apply different tenses in the present and future events.
- To express oneself effectively in different situations.
- To excel in formal and informal writing.

COURSE LEARNING OUTCOMES

On successful completion of the semester, the student should be able

COs	DESCRIPTION	CL
CO1	to show the directions, to locate a place and to describe people and to recall the French and the Indian civilisation	K1
CO2	to interpret the text and express effectively using their grammar knowledge.	K2
CO3	to utilize the tenses learnt to categorize the present and future events.	K3
CO4	to make use of the modal verbs to express obligation and prohibition.	K4
CO5	to assess the situation and choose the appropriate format to elaborate on the given topics.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	C'est où ? 1.1. Demander et indiquer une direction 1.2. Localiser (près de, en face de...) N'oubliez pas ! 1.3. Exprimer l'obligation ou l'interdit 1.4. Conseiller 1.5. La Civilisation française	K1 - K5	12	1 – 5
2	Belle vue sur la mer ! 2.1. Décrire un lieu 2.2. Situer 2.3. Se situer dans le temps 2.4. La Civilisation française	K1 - K5	10	1 – 5
3	Quel beau voyage! 3.1. Raconter 3.2. Décrire les étapes d'une action 3.3. Exprimer l'intensité et la quantité 3.4. Interroger 3.5. La Civilisation française	K1 - K5	10	1 – 5
4	Oh ! Joli ! 4.1. Décrire quelqu'un 4.2. Comparer 4.3. Exprimer l'accord ou le désaccord 4.4. Se situer dans le temps Et après ? 4.5. Parler de l'avenir 4.6. Le futur simple 4.7. Exprimer des souhaits 4.8. La Civilisation française	K1 - K5	12	1 – 5
5	Les textes littéraires 5.1. La Belle au bois dormant - Le Conte de fée par Charles Perrault 5.2. Le fils à la recherche de sa mère - Le Conte Sénégalais - Pape Faye	K1 - K5	8	1 – 5

BOOKS FOR STUDY

Mérieux RÉGINE, Loiseau YVES, *Latitudes 1, Méthode de français*, Paris : Didier, 2012.

BOOKS FOR REFERENCE

BERTHET Annie, HUGOT Catherine, SAMPSONIS Béatrix, WRENDENDRIES Monique, *Alter Égo 1, Méthode de français et cahier d'exercices*, Paris : Hachette, 2006.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

COCTON Marie-Noëlle, *Génération 1 Niveau A1, Méthode de français et cahier d'exercices*, Paris : Didier, 2016.

DINTILHAC Anneline, DE OLIVEIRA Anouchka, RIPAUD Delphine, DUPLEIX Dorothee, COCTON Marie-Noëlle, *Saison 1 Niveau 1, Méthode de français et cahier d'exercices*, Paris : Didier, 2015.

PERRAULT Charles, *Les Contes de ma mère l'Oye*, Paris: Claude Barbin, 1697.

WEB RESOURCES

<https://www.conte-moi.net/contes/fils-recherche-sa-mere>

www.francparler.org

www.francaisfacile.com/exercices/

www.lepointdufle.net/

www.ccdmd.qc.ca/fr/

www.bonjourdefrance.com

<http://users.skynet.be/providence/vocabulaire/francais/menu.ht>

<http://www.conte-moi.net>

www.larousse.fr/

<http://crisco.unicaen.fr/>

<https://fr.wikimini.org/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10) K2 (5)	$2 \times 2.5 = 5$ (Les questions sur la civilisation) $2 \times 2.5 = 5$ (Les questions sur les textes littéraires) $1 \times 5 = 5$ (Le texte de compréhension)	2 K1 questions 2 K1 questions 1 K2 question	2 K1 questions 2 K1 questions 1 K2 question
B	K3, K4 (20)	$5 \times 4 = 20$ (Les exercices de grammaire)	5 K3 & K4 questions	6 K3 & K4 questions
C	K5 (15)	$2 \times 5 = 10$ (L'écriture créative) $1 \times 5 = 5$ (Résumé du texte littéraire)	2 K5 questions 1 K5 question	3 K5 questions 1 K5 question
	Total	50	13	15

Other Components : Total marks: 50

Examen oral / Dictée / Document authentique / Présentation / Assignments / Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs / Les exercices d'écoute

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (20)	$2 \times 5 = 10$ (Les questions sur la civilisation)	2 K1 questions	2 K1 questions
		$2 \times 5 = 10$ (Les questions sur les textes littéraires)	2 K1 questions	2 K1 questions
	K2 (10)	$2 \times 5 = 10$ (Le texte de compréhension)	2 K2 questions	2 K2 questions
B	K3, K4 (40)	$10 \times 4 = 40$ (Les exercices de grammaire)	10 K3 & K4 questions	12 K3 & K4 questions
C	K5 (30)	$2 \times 10 = 20$ (L'écriture créative)	2 K5 questions	3 K5 questions
		$1 \times 10 = 10$ (Résumé du texte littéraire)	1 K5 question	1 K5 question
	Total	100	19	22

Section A (30 points)

La Civilisation française tirée du texte (*Latitudes 1*) (10 points)

Les questions sur les textes littéraires (10 points)

Le texte de compréhension (10 points)

Section B (40 points)

Les exercices de la grammaire tirés du manuel prescrit ($10 \times 4 = 40$ points)

Section C (30 points)

L'écriture créative tirée du texte prescrit (présentez-vous, présentez quelqu'un, carte postale, lettre, courriel électronique, dialogue) 2 sujets sur 3 ($2 \times 10 = 20$ points)

Résumé des textes littéraires (5 points)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FR/FC/IL23												
II	Course Title: INTERMEDIATE FRENCH AND LITERATURE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	3	3	2	2	3	2	3	1	3	3
CO 2	1	2	2	3	3	2	2	3	3	3	3	3	3
CO 3	1	2	3	3	3	2	3	3	3	3	1	2	2
CO 4	1	1	1	2	2	1	3	2	3	3	1	2	2
CO 5	2	3	2	3	3	2	3	3	3	3	2	2	3
High Correlation: 3				Moderate Correlation: 2					Low Correlation: 1				

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SYLLABUS

(Effective from the academic year 2023-2024)

FOUNDATION COURSE – FRENCH

ADVANCED LANGUAGE AND LITERATURE- I

CODE: 23FR/FC/AL33

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To identify french authors and their works.
- To understand various french literary texts.
- To comprehend different past tenses.
- To analyse and apply their knowledge of vocabulary and grammar concepts.
- To paraphrase the French literary texts using the grammar concepts.

COURSE LEARNING OUTCOMES

On successful completion of the semester, the student should be able

COs	DESCRIPTION	CL
CO1	to recall the vocabulary to comprehend any text.	K1
CO2	to interpret the text and express effectively using their grammar knowledge.	K2
CO3	to frame correct, complete and structured sentences describing the past events.	K3
CO4	to compose simple and complex sentences that reflect the proper use of verbs in different past tenses.	K4
CO5	to summarize the French literary texts and to construct appropriate sentences using the acquired grammar knowledge.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1. Nos études <i>ou</i> Les jumeaux rédigent la composition - extrait tiré du roman <i>Le Grand Cahier</i> écrit par Agota Kristof 1.2. Le passé composé	K1- K5	12	1 – 5
2	2.1. Les feuilles mortes <i>ou</i> Les enfants à l'œuvre - extrait tiré de la nouvelle <i>Filles et Garçons</i> écrite par Anatole France 2.2. L'imparfait	K1 - K5	10	1 – 5
3	3.1. Demain dès l'aube <i>ou</i> Douleur inconsolable - poème tiré du recueil <i>Les Contemplations</i> écrit par Victor Hugo 3.2. Le plus-que-parfait	K1 - K5	10	1 – 5
4	4.1. Une visite inattendue <i>ou</i> Le père rentre chez lui - extrait tiré du roman <i>Petit-Louis</i> écrit par Eugène Dabit 4.2. L'expression du temps	K1 – K5	10	1 – 5
5	5.1. Estula <i>ou</i> Le chien qui parle ! - extrait tiré d'un fabliau comique du Moyen Âge écrit par un auteur anonyme 5.2. Une Saison dans la vie d'Emmanuel <i>ou</i> L'hiver a été dur, mais le printemps sera meilleur ! - extrait tiré du roman <i>Une Saison dans la vie d'Emmanuel</i> écrit par Marie- Claire Blais	K1 - K5	10	1 – 5

BOOKS FOR STUDY

MADANAGOBALANE K, MIRAKAMAL N C, *Le français par les textes*, Chennai: Samhita Publications, 2017.

BOOKS FOR REFERENCE

ABBADIE Christian, CHOVELON Bernadette, MORSEL Marie-Hélène, *L'Expression française écrite et orale*, Grenoble: Presses universitaires de Grenoble, 2003.

COCTON Marie-Noëlle, *Génération 1 Niveau A1, Méthode de français et cahier d'exercices*, Paris : Didier, 2016.

DE LA FONTAINE Jean, *Fables de La Fontaine : livre VII*, Paris: Claude Barbin, 1678.

DINTILHAC Anneline, DE OLIVEIRA Anouchka, RIPAUD Delphine, DUPLEIX Dorothee, COCTON Marie-Noëlle, *Saison 1 Niveau 1, Méthode de français et cahier d'exercices*, Paris : Didier, 2015.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XVIIe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1989.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: Littérature du XVIIIe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1993.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XIXe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1993.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XXe Siècle*, Paris : Bordas, 1993.

WEB RESOURCES

www.larousse.fr/

<http://crisco.unicaen.fr/>

<https://www.bonjourdefrance.co.uk/learn-french-online/grammar/choose-level>

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

<https://fr.wikimini.org/>

<http://www.conte-moi.net>

<https://www.etudes-litteraires.com/>

<https://www.espacefrancais.com/litterature/>

<https://commentairecompose.fr/mouvement-litteraire/>

<https://bibliothequenumerique.tv5monde.com/>

<https://facnotes.wordpress.com/>

<http://flenet.unileon.es/docauteurs.html>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	$5 \times 2 = 10$ (Les questions sur les textes littéraires)	5 K1 questions	5 K1 questions
	K2 (10)	$2 \times 2.5 = 5$ (La traduction des textes littéraires)	2 K2 questions	3 K2 questions
		$1 \times 5 = 5$ (La compréhension écrite d'un document authentique)	1 K2 question	1 K2 question
B	K3, K4 (20)	$5 \times 4 = 20$ (Les exercices de grammaire)	5 K3 & K4 questions	6 K3 & K4 questions
C	K5 (10)	$2 \times 2.5 = 5$ (L'écriture créative)	2 K5 questions	3 K5 questions
		$1 \times 5 = 5$ (Résumé du texte littéraire)	1 K5 question	2 K5 questions
	Total	50	16	20

Other Components :

Total marks: 50

Examen oral / Dictée / Document authentique / Présentation / Assignments / Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs / Les exercices d'écoute

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (20)	$5 \times 4 = 20$ (Les questions sur les textes littéraires)	5 K1 questions	5 K1 questions
	K2 (20)	$2 \times 5 = 10$ (La traduction des textes littéraires)	2 K2 questions	3 K2 questions
		$2 \times 5 = 10$ (La compréhension écrite d'un document authentique)	2 K2 questions	2 K2 questions
B	K3, K4 (40)	$10 \times 4 = 40$ (Les exercices de grammaire)	10 K3 & K4 questions	12 K3 & K4 questions
C	K5 (20)	$2 \times 5 = 10$ (L'écriture créative)	2 K5 questions	3 K5 questions
		$1 \times 10 = 10$ (Résumé du texte littéraire)	1 K5 question	2 K5 question
	Total	100	22	27

End-Semester Examination :

Total marks: 100

Duration: 3 hours

Section A (40 points)

Les questions basées sur les textes littéraires ($5 \times 4 = 20$ points)

- Répondez aux questions
- Complétez
- Choisissez la bonne réponse
- Dites vrai ou faux– Associez
- Retrouvez les mots / phrases
- Écrivez les contraires / synonymes
- Donnez la forme nominale / verbale / adjectivale
- Mettez au masculin / féminin
- Mettez en ordre

Traduction des textes littéraires tirés du manuel prescrit – (2 sujets sur 3) ($2 \times 5 = 10$ points)

Compréhension écrite d'un document authentique. – ($2 \times 5 = 10$ points)

Section B (40 points)

Les exercices de la grammaire tirés du manuel prescrit ($10 \times 4 = 40$ points)

Section C (20 points)

Rédaction (Écriture créative) (2 sujets sur 3) ($2 \times 5 = 10$ points)

Résumé du texte littéraire (1 sujet sur 2) ($1 \times 10 = 10$ points)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FR/FC/AL33												
III	Course Title: ADVANCED LANGUAGE AND LITERATURE - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	3	2	2	1	2	1	1	2	3	3
CO 2	2	3	2	3	2	2	2	3	3	3	3	3	3
CO 3	2	2	1	3	1	1	2	1	3	3	2	3	2
CO 4	2	1	1	3	1	1	2	1	3	3	2	3	2
CO 5	1	2	2	3	2	2	1	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

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SYLLABUS

(Effective from the academic year 2023-2024)

FOUNDATION COURSE – FRENCH

ADVANCED LANGUAGE AND LITERATURE- II

CODE: 23FR/FC/AL43

CREDITS: 3

LTP: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enumerate French and Francophone writers and identify different genres of French and Francophone writings.
- To understand various French literary texts.
- To comprehend different complex sentences.
- To analyse and apply their knowledge of vocabulary and grammar concepts.
- To paraphrase the French literary texts using the grammar concepts.

COURSE LEARNING OUTCOMES

On successful completion of the semester, the student should be able

COs	DESCRIPTION	CL
CO1	To recall the vocabulary to comprehend any text.	K1
CO2	To interpret the text and express effectively using their grammar knowledge.	K2
CO3	To frame correct, complete and structured complex sentences	K3
CO4	To analyse diverse situations and express effectively using the acquired grammar concepts	K4
CO5	To summarize the French literary texts and to construct appropriate sentences using the acquired grammar knowledge.	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1. La tortue et le chien <i>ou</i> Le chien qui ne dispute pas la bonne place à la tortue - extrait tiré du recueil de contes <i>Contes de Provence</i> écrit par Paul Arène 1.2. Les pronoms relatifs	K1- K5	12	1 – 5
2	2.1. L'égoïste puni <i>ou</i> La leçon bien méritée ! - extrait tiré du roman <i>Les Lunettes de Grand'maman</i> écrit par Pierre Perrault 2.2. Le comparatif	K1 - K5	10	1 – 5
3	3.1. L'hiver <i>ou</i> Le petit moineau - extrait tiré de <i>Chants pour les Enfants</i> écrit par Mademoiselle Brès 3.2. Le conditionnel présent	K1 - K5	10	1 – 5
4	4.1. La danse <i>ou</i> La ruse de Zadig - extrait tiré du conte philosophique <i>Zadig</i> <i>ou La Destinée</i> écrit par Voltaire 4.2. L'expression de la cause	K1 – K5	10	1 – 5
5	5.1. La mort de maman <i>ou</i> Ce n'est pas de ma faute - extrait tiré du roman <i>L'Étranger</i> écrit par Albert Camus 5.2. Le lévrier et le serpent <i>ou</i> La bravoure du chien - extrait tiré du roman <i>Sept Sages</i> écrit par un auteur anonyme	K1 - K5	10	1 – 5

BOOKS FOR STUDY

MADANAGOBALANE K, MIRAKAMAL N C, *Le français par les textes*, Chennai: Samhita Publications, 2017.

BOOKS FOR REFERENCE

ABBADIE Christian, CHOVELON Bernadette, MORSEL Marie-Hélène, *L'Expression française écrite et orale*, Grenoble: Presses universitaires de Grenoble, 2003.

COCTON Marie-Noëlle, *Génération 1 Niveau A1, Méthode de français et cahier d'exercices*, Paris : Didier, 2016.

DE LA FONTAINE Jean, *Fables de La Fontaine : livre I*, Paris: Claude Barbin, 1668.

DINTILHAC Anneline, DE OLIVEIRA Anouchka, RIPAUD Delphine, DUPLEIX Dorothée, COCTON Marie-Noëlle, *Saison 1 Niveau 1, Méthode de français et cahier d'exercices*, Paris : Didier, 2015.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XVIIe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1989.

LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: Littérature du XVIIIe Siècle : Les Grands Auteurs français du programme – Anthologie et Histoire littéraire*, Paris : Bordas, 1993.

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LAGARDE André, MICHARD Laurent, *Collection Littéraire Lagarde et Michard: XXe Siècle*, Paris : Bordas, 1993.

WEB RESOURCES

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<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

<https://fr.wikimini.org/>

<http://www.conte-moi.net>

<https://www.etudes-litteraires.com/>

<https://www.espacefrancais.com/litterature/>

<https://commentairecompose.fr/mouvement-litteraire/>

<https://bibliothequenumerique.tv5monde.com/>

<https://facnotes.wordpress.com/>

<http://flenet.unileon.es/docauteurs.html>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	$5 \times 2 = 10$ (Les questions sur les textes littéraires)	5 K1 questions	5 K1 questions
	K2 (10)	$2 \times 2.5 = 5$ (La traduction des textes littéraires)	2 K2 questions	3 K2 questions
		$1 \times 5 = 5$ (La compréhension écrite d'un document authentique)	1 K2 question	1 K2 question
B	K3, K4 (20)	$5 \times 4 = 20$ (Les exercices de grammaire)	5 K3 & K4 questions	6 K3 & K4 questions
C	K5 (10)	$2 \times 2.5 = 5$ (L'écriture créative)	2 K5 questions	3 K5 questions
		$1 \times 5 = 5$ (Résumé du texte littéraire)	1 K5 question	2 K5 questions
	Total	50	16	20

Other Components : Total marks: 50

Examen oral / Dictée / Document authentique / Présentation / Assignments / Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs / Les exercices d'écoute

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (20)	$5 \times 4 = 20$ (Les questions sur les textes littéraires)	5 K1 questions	5 K1 questions
	K2 (20)	$2 \times 5 = 10$ (La traduction des textes littéraires)	2 K2 questions	3 K2 questions
		$2 \times 5 = 10$ (La compréhension écrite d'un document authentique)	2 K2 questions	2 K2 questions
B	K3, K4 (40)	$10 \times 4 = 40$ (Les exercices de grammaire)	10 K3 & K4 questions	12 K3 & K4 questions
C	K5 (20)	$2 \times 5 = 10$ (L'écriture créative)	2 K5 questions	3 K5 questions
		$1 \times 10 = 10$ (Résumé du texte littéraire)	1 K5 question	2 K5 question
	Total	100	22	27

Section A (40 points)

Les questions basées sur les textes littéraires ($5 \times 4 = 20$ points)

- Répondez aux questions
- Complétez
- Choisissez la bonne réponse
- Dites vrai ou faux – Associez
- Retrouvez les mots / phrases
- Écrivez les contraires / synonymes
- Donnez la forme nominale / verbale / adjectivale
- Mettez au masculin / féminin
- Mettez en ordre

Traduction des textes littéraires tirés du manuel prescrit – (2 sujets sur 3) ($2 \times 5 = 10$ points)

Compréhension écrite d'un document authentique. – ($2 \times 5 = 10$ points)

Section B (40 points)

Les exercices de la grammaire tirés du manuel prescrit ($10 \times 4 = 40$ points)

Section C (20 points)

Rédaction (Écriture créative) (2 sujets sur 3) ($2 \times 5 = 10$ points)

Résumé du texte littéraire (1 sujet sur 2) ($1 \times 10 = 10$ points)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FR/FC/AL43												
IV	Course Title: ADVANCED LANGUAGE AND LITERATURE - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	3	2	2	1	2	1	1	2	3	3
CO 2	2	3	2	3	2	2	2	3	3	3	3	3	3
CO 3	1	2	2	3	2	1	1	2	3	3	2	2	3
CO 4	2	2	1	3	2	2	2	3	3	3	2	3	3
CO 5	1	2	2	3	2	2	1	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of French to
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

SPOKEN FRENCH

CODE: 23FR/GE/SF22

CREDITS: 2

LTP : 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVE OF THE COURSE

- To learn the basics of French.
- To remember the greeting lexis and apply in basic introduction.
- To express her preferences

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, the student should be able to

COs	DESCRIPTION	CL
CO1	To pronounce the French letters.	K1
CO2	To recall the greeting lexis and apply in basic introduction.	K2
CO3	To express her preferences and to describe someone.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	1.1. Saluer quelqu'un 1.2. Épeler un mot 1.3. Se présenter 1.4. Présenter quelqu'un	K1- K3	8	1 – 3
2	2.1. Parler de ses goûts 2.2. Poser des questions 2.3. Dire / demander l'âge 2.4. Dire / demander l'heure	K1- K3	9	1 – 3
3	3.1. Présenter sa famille 3.2. Parler de ses activités quotidiennes 3.3. Décrire quelqu'un (apparence physique, vêtements...)	K1 - K3	9	1 – 3

BOOKS FOR STUDY

HIMBER Céline, RASTELLO Charlotte, GALLON Fabienne avec la collaboration de GAUDEL Adeline, *Le Kiosque 1, Méthode de français et cahier d'exercices*, Paris : Hachette, 2007.

BOOKS FOR REFERENCE

CAPELLE Guy, MENAND Robert, *Taxi - I, Méthode de français et cahier d'exercices*, Paris : Hachette, 2003.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

WEB RESOURCES

www.franccparler.org

www.francaisfacile.com

www.lepointdufle.net

www.ccdmd.qc.ca

www.bonjourdefrance.com

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

PATTERN OF ASSESSMENT (Totally internal)**Total marks: 50**

Le jeu de rôle / Les exercices d'écoute / Le monologue / Examen oral / Présentation / Test culturel (à l'oral) / Activités ludiques

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of French to
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FRENCH FOR BEGINNERS

CODE: 23FR/GE/FN22

CREDITS: 2

LTP : 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVE OF THE COURSE

- To read and understand the French literary texts.
- To acquire the linguistic and communicative skills of the French language.
- To comprehend French culture and civilization

COURSE LEARNING OUTCOMES

On successful completion of the semester, the student should be able

COs	DESCRIPTION	CL
CO1	To recall colours, numbers & shapes in French	K1
CO2	To understand the language & engage in basic conversation	K2
CO3	To apply their basic grammar concepts for constructing meaningful simple sentences.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1.	1.1. Comment se présenter ? 1.2. À l'école- A 1.3. À l'école- B	K1 - K3	9	1 – 3
2.	2.1. À l'école- C 2.2. Les couleurs	K1 - K3	9	1 – 3
3.	3.1. Le Verbe «être» 3.2. Singulier et Pluriel	K1 - K3	8	1 – 3

BOOKS FOR STUDY

TIWARI Meenal, *Esprit I, Méthode de français*, New Delhi : Langers International Pvt Ltd 2016.

BOOKS FOR REFERENCE

CAPELLE Guy, MENAND Robert, *Taxi - I, Méthode de français et cahier d'exercices*, Paris : Hachette, 2003.

CARLO Catherine, CAUSA Mariella, *Civilisation Progressive du Français – I*, Paris : CLE International, 2003.

WEB RESOURCES

www.francparler.org

www.francaisfacile.com

www.lepointdufle.net

www.ccdmd.qc.ca/fr/

www.bonjourdefrance.com

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

PATTERN OF ASSESSMENT (Totally internal)**Total marks: 50**

Examen oral / Dictée / Document authentique / Présentation / Assignments / Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of French to
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FRENCH FOR BUSINESS

CODE: 23FR/GE/FS22

CREDITS: 2

LTP : 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce oneself and others
- To gather basic informations.
- To fix an appointment through email.

COURSE LEARNING OUTCOMES

On successful completion of the semester, the student should be able

COs	DESCRIPTION	CL
CO1	To recall the vocabulary for engaging in basic conversation.	K1
CO2	To understand basic information and make an appointment.	K2
CO3	To apply the acquired knowledge about the grammar concepts in different sentences appropriately	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1.	1.1. Découvrir le monde du travail 1.2. Prendre contact 1.3. Faire connaissance	K1- K3	9	1-3
2.	2.1. Entrer en contact 2.2. Aborder une personne pour demander quelque chose ou pour parler 2.3. Fixer un rendez-vous 2.4. Parler d'une personne, sa profession, son âge, sa famille et son ambition	K1 - K3	9	1-3

UNIT	CONTENT	CL	Hrs	CO
3.	3.1. Diriger une conversation générale 3.2. Commander au restaurant	K1 - K3	8	1-3

BOOKS FOR STUDY

MEHTA Ragini, *Collaboration*, New Delhi : GOYAL Publishers & Distributors Pvt. Ltd., 2014.

BOOKS FOR REFERENCE

DUBOIS Anne-Lyse, TAUZIN Béatrice, *Objectif Express 1 Nouvelle Édition*, Paris : Hachette, 2013.

PENFORNIS Jean-Luc, *Communication Progressive du Français des Affaires*, Paris : CLE International, 2010.

WEB RESOURCES

www.franparler.org

www.francaisfacile.com

www.lepointdufle.net

www.ccdmd.qc.ca/fr/

<http://www.bonjourdefrance.com/index/indexfranaff.htm#>

<http://www.ciel.fr/apprendre-francais/francais-affaires/examen-francais-affaires.htm>

PATTERN OF ASSESSMENT (Totally internal)

Total marks: 50

Examen oral / Dictée / Document authentique / Présentation / Assignments / Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of French to
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FRENCH FOR TOURISM

CODE: 23FR/GE/FT22

CREDITS: 2

LTP : 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVE OF THE COURSE

- To revise the essential sentences for effective communication
- To interpret sentences to narrate the situations
- To create and present dialogues, reports and essays

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, the student should be able to

COs	DESCRIPTION	CL
CO1	To enhance effective communication to handle situations in Tourism Industry.	K1
CO2	To state and practice French to enhance the approaches in sustainable tourism and its development	K2
CO3	To interpret and communicate confidently through group discussion	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	À l'hôtel « Minakshi » 1.1. Accueillir – réceptionniste à l'hôtel 1.2. À propos de la réservation 1.3. Durée du séjour 1.4. Prix de la chambre 1.5. Accepter la chambre 1.6. Les formalités à remplir 1.7. Après la réservation	K1- K3	8	1 – 3
2	Je suis vraiment vexé 2.1. Se plaindre du fonctionnement des installations 2.2. Exprimer son irritation 2.3. Réclamer 2.4. S'excuser	K1- K3	9	1 – 3

UNIT	CONTENT	CL	Hrs	CO
3	Au restaurant 3.1. Proposer une table 3.2. Demander une table 3.3. Exprimer son mécontentement 3.4. Proposer et demander des suggestions 3.5. Exprimer son appréciation 3.6. Pour payer, après avoir mangé	K1 - K3	9	1 – 3

BOOKS FOR STUDY

N. C. MIRAKAMAL, R. VENGUATTARAMANE, *L'hôtellerie et le tourisme, Méthode de français*, Chennai : Samhita Publications, 2015.

BOOKS FOR REFERENCE

MEHTA Ragini, *Le français en contexte Tourisme, Méthode de français professionnelles*, Paris : Edition Maison des langues, 2013.

CAPELLE Guy, MENAND Robert, *Taxi - I, Méthode de français et cahier d'exercices*, Paris : Hachette, 2003.

WEB RESOURCES

<https://emilieviret.wordpress.com/ressources/francais-du-tourisme/>

www.franccparler.org

www.francaisfacile.com

www.lepointdufle.net

www.ccdmd.qc.ca/fr

<http://www.bonjourdefrance.com/index/indexfranaff.htm#>

<http://www.ciel.fr/apprendre-francais/francais-affaires/examen-francais-affaires.htm>

PATTERN OF ASSESSMENT (Totally internal)

Total marks: 50

Examen oral / Dictée / Document authentique / Présentation / Assignements / Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

**B.Voc. PROGRAMME
FOUNDATION COURSE - FRENCH
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)**

**SYLLABUS
(Effective from the academic year 2023 - 2024)**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

DEPARTMENT OF FRENCH

PROGRAMME DESCRIPTION

The Department of French was started in 1947 in order to give students the opportunity to learn a foreign language. The focus of the department is on the development of the basic language skills such as oral and written comprehension and communication. Emphasis is laid on spoken French through the study of the French language and civilisation, and the assessment of spoken French is an essential component of the testing pattern.

Authentic documents used for study help students to improve their knowledge of contemporary French civilisation and culture. Students are also exposed to French literature through the study of simple literary texts.

The French culture and civilisation give an insight of the status of European women. This enables the students to broaden their perspective of the role of women in a society. The emphasis of procuring a green environment is dealt with in the syllabus designed. The questions included in the exercises induce the students to become environment friendly in future.

French films are used to assess the ability of the students to understand the native speakers. These French films are considered as one of the other component evaluation methods. Learning is also enabled through short French dialogue videos, French songs and podcasts.

Stella Maris College's association with the French language dates back to the inception of the institution. The arrival of the Franciscan Sisters in India not only heralded a new era in women's education but also pioneered the study of French as a foreign language. Among the pioneers of the Department of French, Mother M. Chapdalene (Moissonier), fmm, a French national, is remembered with gratitude by her students of the fifties and sixties for her commitment and dedication to the teaching of French.

The birth of the French Club, "Cercle des Francophiles" in 2003 provided a platform for the students to display their talents. The cultural activities served to sustain the interest of the students in the language.

When the College became autonomous in 1987, French was introduced as a Foundation Course. The focus of study which, until then, was grammar and literature, shifted to the French language, culture and civilisation. Since the late nineties, in addition to the regular courses, the department offered Business French and Commercial Correspondence to students of Commerce to help them meet the requirements of the job market.

In 2011, French for Beginners was introduced as a 4-credit General Elective course for undergraduates and postgraduates with no prior knowledge of French. In 2015, along with the other General Elective Courses, the department offered Spoken French for the beginners. In 2019, French for Tourism was added into the syllabus.

VISION AND MISSION OF THE DEPARTMENT

DEPARTMENT OF LANGUAGES

VISION

Expansion of the department to include inter-disciplinary and research programmes thereby honing leadership, organisational skills of students which eventually enhance their employability.

MISSION

To impart language proficiency and to facilitate the students of diverse socio, economic and cultural background to acquire linguistic and communicative skills.

To kindle participatory learning methods through student-centered activities.

To serve the student community with integrity and commitment through innovative and quality teaching.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1	To develop the knowledge of grammatical system of French language.
PSO2	To apply the knowledge of grammar in the writing.
PSO3	To identify French and Francophone writers of various origins and classify French and Francophone writings of several themes.
PSO4	To acquire the modalities of the language like listening, reading and writing.
PSO5	To use their proficiency in the French language and its culture to make pertinent comparisons with their own language and culture and thus demonstrate a critical understanding of the nature and function of both.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. PROGRAMME

FOUNDATION COURSE-FRENCH

COURSES OF STUDY

(Effective from the academic year 2023 - 2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessm	End Semester	Maximum
Semester - I									
23FR/FC/BF14	Basic French	4	4	0	0	3	25	75	100
Semester - II									
23FR/FC/IM24	Intermediate French	4	4	0	0	3	25	75	100
Semester - III									
23FR/FC/AD34	Advanced French - I	4	4	0	0	3	25	75	100
Semester - IV									
23FR/FC/AH44	Advanced French - II	4	4	0	0	3	25	75	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

BACHELOR OF VOCATIONAL (B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

FOUNDATION COURSE – FRENCH

BASIC FRENCH

CODE: 23FR/FC/BF14

CREDITS : 4

LTP : 4 0 0

TOTAL TEACHING HOURS : 52

OBJECTIVE OF THE COURSE

- To remember the greeting lexis and apply in basic introduction
- To analyze one's preferences
- To understand an invite and respond to it
- To understand the basic French grammar concepts
- To comprehend French culture and Civilization

COURSE LEARNING OUTCOMES

On successful completion of the course, students should be able

COs	DESCRIPTION	CL
CO1	to recall the basics of the language and the culture of France.	K1
CO2	to interpret the text and express effectively using their grammar knowledge.	K2
CO3	to apply their knowledge of vocabulary and grammar concepts in everyday life.	K3
CO4	to analyse various situations and utilise the appropriate tense	K4
CO5	to incorporate the difference between formal and informal writing using appropriate format.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	À l'aéroport 1.1. L'alphabet 1.2. Demander et dire le nom 1.3. Saluer, Se présenter 1.4. Les chiffres de 0 à 50 1.5. Les pronoms sujets 1.6. Interrogation	K1- K5	12	1 – 5

UNIT	CONTENT	CL	Hrs	CO
2	À l'université 2.1. Demander comment on se porte 2.2. Présenter quelqu'un 2.3. Prendre congé 2.4. Exprimer l'appréciation 2.5. Les articles définis et indéfinis. Adjectifs 2.6. Les chiffres de 50 à l'infini	K1 - K5	10	1 – 5
3	Au café 3.1. Dire ce qu'on aime 3.2. Donner des informations 3.3. Exprimer l'admiration 3.4. Demander des informations sur quelqu'un 3.5. Adjectifs interrogatifs. Adjectifs possessifs 3.6. La négation	K1 - K5	10	1 – 5
4	À la plage 4.1. Proposer une sortie 4.2. Accepter 4.3. Refuser la proposition 4.4. Conjugaison (présent de l'indicatif) 4.5. Adjectifs irréguliers	K1 – K5	10	1 – 5
5	La journée 5.1. Les membres de la famille 5.2. Les jours de la semaine 5.3. Phrases au singulier et au pluriel 5.4. Adjectifs démonstratifs 5.5. Interrogation	K1 - K5	10	1 – 5

BOOKS FOR STUDY

K.Madanagobalane, Comité scientifique : R.Kichenamourthy, R. Venguattaramane, S.Pannirselvame, Varalakshmi Anandkumar, N.C.Mirakamal, *Synchronie 1*, Méthode de français, Chennai :Samhita Publications, 2011.

BOOKS FOR REFERENCE

N.C. Mirakamal, R.Kichenamourthy, *Merveille 1, Méthode de français*, Chennai :Samhita Publications, 2011.

Berthet Annie, Hugo Catherine, Sampsonis Beatrix, Wrendendries Monique, *Alter Ego 1, Méthode de français et Cahier d'exercices*, Paris : Hachette, 2006.

Irani Zenobia, *Pathfinder*, New Delhi : Goyal Publishers & Distributors Pvt. Ltd., 2011.

Manjiri Khandekar, Roopa Luktuke sous la direction de : Surékha Kher & Raymond Capré, *Jumelage, Méthode de français et Cahier d'exercices, Niveau 1*, New Delhi : Langers International Pvt. Ltd.

WEB RESOURCES

www.franccparler.org

www.francaisfacile.com/exercices/

www.lepointdufle.net/

www.ccdmd.qc.ca/fr/

www.bonjourdefrance.com

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1, K2	20	10 (Les exercices de vocabulaire) 5 (Répondez aux questions - Based on the text) 5 (Le texte de compréhension)
B	K3, K4	20	20 (Les exercices de grammaire)
C	K5	10	10 (L'écriture créative)

Other Components :

Total marks: 50

Examen oral / Dictée / Document authentique / Présentation / Assignments / Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs / Les exercices d'écoute

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1, K2	40	20 (Les exercices de vocabulaire) 10 (Répondez aux questions - Based on the text) 10 (Le texte de compréhension)
B	K3, K4	40	40 (Les exercices de grammaire)
C	K5	20	20 (L'écriture créative)

Section A (40 points)

Exercices de vocabulaire tirés du manuel prescrit (20 points)

Synonymes

Contraires

Forme nominale/verbale Masculin/ féminin

Barrez l'intrus

Faire correspondre les éléments dans deux colonnes

Vrai ou Faux (Based on the text)

Reconstituez un dialogue

Complétez avec un mot/ l'expression convenable Questions à choix multiple

Répondez aux questions. - Based on the text (10 points)

Compréhension écrite d'un texte inconnu. (10 points)

Section B (40 points)

Exercices de grammaire. (40 points)

Section C (20 points)

L'écriture créative (2 sujets sur 3)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FR/FC/BF14												
I	Course Title: BASIC FRENCH												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	1	3	1	2	1	3	2	2	1	3	3
CO 2	1	2	3	3	2	2	3	3	3	3	3	3	1
CO 3	2	2	3	3	2	2	2	3	3	3	1	3	1
CO 4	1	2	3	3	1	1	2	3	3	3	1	3	3
CO 5	2	3	2	3	3	2	3	3	3	3	1	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

BACHELOR OF VOCATIONAL (B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

**FOUNDATION COURSE – FRENCH
INTERMEDIATE FRENCH**

CODE: 23FR/FC/IM24

CREDITS : 4

L T P : 4 0 0

TOTAL TEACHING HOURS : 52

OBJECTIVE OF THE COURSE

- To remember the vocabulary for description
- To understand any text and express their opinion.
- To apply the grammar concepts and the vocabulary in the written form.
- To express oneself effectively in different situations.
- To excel in formal and informal writing.

COURSE LEARNING OUTCOMES

On successful completion of the semester, the student should be able

COs	DESCRIPTION	CL
CO1	to communicate in French in diverse situations and in conversations involving everyday topic.	K1
CO2	to interpret the text and express effectively using their grammar knowledge.	K2
CO3	to demonstrate basic competence in French grammar.	K3
CO4	to make use of the verbs to communicate in different situation.	K4
CO5	to assess the situation and choose the appropriate format to elaborate on the given topics.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Un concert 1.1. Inviter 1.2. Accepter 1.3. Exprimer son incapacité d'accepter 1.4. Complimenter 1.5. Parler au téléphone 1.6. Les articles contractés 1.7. Les adverbes interrogatifs	K1- K5	12	1 – 5

UNIT	CONTENT	CL	Hrs	CO
2.	Chez Nalli 2.1. Demander le prix 2.2. Protester contre le prix 2.3. Les adjectifs possessifs 2.4. Accord de l'adjectif 2.5. Adjectifs exclamatifs	K1 - K5	10	1 – 5
3.	Nouvelles de l'Inde-1 3.1. Montrer son inquiétude 3.2. S'excuser 3.3. Exprimer son appréciation 3.4. Interrogation totale 3.5. Le futur	K1 - K5	10	1 – 5
4.	Nouvelles de l'Inde-2 4.1. Décrire quelqu'un 4.2. Décrire quelque chose 4.3. Présent : verbes en er,-ir. 4.4. Féminin d'autres adjectifs	K1 – K5	10	1 – 5
5.	À la gare Central Station 5.1. Réserver des billets 5.2. Demander des renseignements 5.3. Donner des renseignements 5.4. Pronoms compléments d'objet direct 5.5. L'impératif	K1 - K5	10	1 – 5

BOOKS FOR STUDY

K.Madanagobalane, Comité scientifique : R.Kichenamourthy, R. Venguattaramane, S.Pannirselvame, Varalakshmi Anandkumar, N.C.Mirakama1, *Synchronie 1*, Méthode de français, Chennai :Samhita Publications, 2011.

BOOKS FOR REFERENCE

N.C. Mirakamal, R.Kichenamourthy, *Merveille 1, Méthode de français*, Chennai :Samhita Publications, 2011.

Berthet Annie, Hugo Catherine, Sampsonis Beatrix, Wrendendries Monique, *Alter Ego 1, Méthode de français et Cahier d'exercices*, Paris : Hachette, 2006.

Irani Zenobia, *Pathfinder*, New Delhi : Goyal Publishers & Distributors Pvt. Ltd., 2011.

Manjiri Khandekar, Roopa Luktuke sous la direction de : Surékha Kher & Raymond Capré, *Jumelage, Méthode de français et Cahier d'exercices, Niveau 1*, New Delhi : Langers International Pvt. Ltd.

WEB RESOURCES

www.franparler.org

www.francaisfacile.com/exercices/

www.lepointdufle.net/

www.ccdmd.qc.ca.fr/

www.bonjourdefrance.com

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (15) K2 (5)	$4 \times 2.5 = 10$ (Les exercices de vocabulaire) $1 \times 5 = 5$ (Répondez aux questions - Based on the text) $1 \times 5 = 5$ (Le texte de compréhension)	4 K1 questions 1 K1 questions 1 K2 question	4 K1 questions 1 K1 questions 1 K2 question
B	K3, K4(20)	$5 \times 4 = 20$ (Les exercices de grammaire)	5 K3 & K4 questions	6 K3 & K4 questions
C	K5 (10)	$2 \times 5 = 10$ (L'écriture créative)	2 K5 questions	3 K5 questions
	Total	50	13	15

Other Components :

Total marks: 50

Examen oral / Dictée / Document authentique / Présentation / Assignments /Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs / Les exercices d'écoute

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (20) K2 (10)	$4 \times 5 = 20$ (Les exercices de vocabulaire) $1 \times 10 = 10$ (Répondez aux questions - Based on the text) $2 \times 5 = 10$ (Le texte de compréhension)	4 K1 questions 1 K1 questions 2 K2 questions	4 K1 questions 1 K1 questions 2 K2 questions
B	K3, K4 (40)	$10 \times 4 = 40$ (Les exercices de grammaire)	10 K3 & K4 questions	12 K3 & K4 questions
C	K5 (30)	$2 \times 10 = 20$ (L'écriture créative)	2 K5 questions	3 K5 questions
	Total	100	19	22

Section A (40 points)

Exercices de vocabulaire tirés du manuel prescrit (20 points)

Synonymes

Contraires

Forme nominale/verbale Masculin/ féminin

Barrez l'intrus

Faire correspondre les éléments dans deux colonnes

Vrai ou Faux (Based on the text)

Reconstituez un dialogue

Complétez avec un mot/ l'expression convenable Questions à choix multiple

Répondez aux questions. - Based on the text (10 points)

Compréhension écrite d'un texte inconnu. (10 points)

Section B (40 points)

Exercices de grammaire. (40 points)

Section C (20 points)

L'écriture creative (2 sujets sur 3)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FR/FC/IM24												
II	Course Title: INTERMEDIATE FRENCH												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	3	3	2	2	3	2	3	1	3	3
CO 2	1	2	2	3	3	2	2	3	3	3	3	3	3
CO 3	1	1	1	2	1	1	1	2	3	3	1	2	1
CO 4	1	2	2	3	2	2	1	2	3	3	1	3	2
CO 5	2	3	2	3	3	2	3	3	3	3	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

BACHELOR OF VOCATIONAL (B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

**FOUNDATION COURSE – FRENCH
ADVANCED FRENCH - I**

CODE: 23FR/FC/AD34

CREDITS : 4

LTP : 4 0 0

TOTAL TEACHING HOURS : 52

OBJECTIVES OF THE COURSE

- To identify french authors and their works.
- To understand various french literary texts.
- To apply different tenses in the present and past events.
- To analyse and apply their knowledge of vocabulary and grammar concepts.
- To paraphrase the French literary texts using the grammar concepts.

COURSE LEARNING OUTCOMES

On successful completion of the semester, the student should be able

COs	DESCRIPTION	CL
CO1	to recall the vocabulary to comprehend any text.	K1
CO2	to interpret the text and express effectively using their grammar knowledge.	K2
CO3	to frame correct, complete and structured sentences describing the past events.	K3
CO4	to compose simple and complex sentences that reflect the proper use of verbs in different tenses.	K4
CO5	to summarize the French literary texts and to construct appropriate sentences using the acquired grammar knowledge.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Un lit dans la cuisine ! 1.1. Donner des ordres 1.2. Localiser 1.3. Dire qu'une proposition est stupide ou bizarre 1.4. Impératif 1.5. Il faut, Devoir + infinitif 1.6. Prépositions de lieu	K1- K5	12	1 –5

UNIT	CONTENT	CL	Hrs	CO
2.	Pierre apprend à conduire 2.1. Rassurer 2.2. Exprimer l'interdiction 2.3. Exprimer l'autorisation 2.4. Avertir 2.5. Pronoms compléments d'objet indirect 2.6. Le passé composé avec avoir	K1 - K5	10	1 – 5
3.	Mangez-vous correctement ?-1 3.1. Demander des informations sur les habitudes de quelqu'un 3.2. Offrir à manger ou à boire 3.3. Expression de la quantité 3.4. Pronom 'en'	K1 - K5	10	1 – 5
4.	Poème / Extrait 4.1 Le cancre (Jacques Prévert) 4.2 Le Petit Prince – Chapitre 1 (Antoine de Saint-Exupéry)	K1 – K5	10	1 –5
5.	Prose 5.1 Le Libraire (extrait) (Gérard Bessette) 5.2 Le diable (extrait-La mourante et son fils) (Guy de Maupassant)	K1 - K5	10	1 – 5

BOOKS FOR STUDY

K.Madanagobalane, Comité scientifique : R.Kichenamourthy, R. Venguattaramane, S.Pannirselvame, Varalakshmi Anandkumar, N.C.Mirakamal, *Synchronie 1*, Méthode de français, Chennai :Samhita Publications, 2011.

BOOKS FOR REFERENCE

N.C. Mirakamal, R.Kichenamourthy, *Merveille 1, Méthode de français*, Chennai :Samhita Publications, 2011.
Berthet Annie, Hugo Catherine, Sampsonis Beatrix, Wrendendries Monique, *Alter Ego 1, Méthode de français et Cahier d'exercices*, Paris : Hachette, 2006.
Irani Zenobia, *Pathfinder*, New Delhi : Goyal Publishers & Distributors Pvt. Ltd., 2011.
Manjiri Khandekar, Roopa Luktuke sous la direction de : Surékha Kher & Raymond Capré, *Jumelage, Méthode de français et Cahier d'exercices, Niveau 1*, New Delhi : Langers International Pvt. Ltd.

WEB RESOURCES

www.franparler.org
www.francaisfacile.com/exercices/
www.lepointdufle.net/
www.ccdmd.qc.ca.fr/
www.bonjourdefrance.com
<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10) K2 (5)	$4 \times 2.5 = 10$ (Les questions sur les textes littéraires) $1 \times 5 = 5$ (Le texte de compréhension)	4 K1 questions 1 K2 question	4 K1 questions 1 K2 question
B	K3, K4 (20)	$5 \times 4 = 20$ (Les exercices de grammaire)	5 K3 & K4 questions	6 K3 & K4 questions
C	K5 (15)	$2 \times 5 = 10$ (L'écriture créative) $1 \times 5 = 5$ (Résumé du texte littéraire)	2 K5 questions 1 K5 question	3 K5 questions 2 K5 question
	Total	50	13	16

Other Components :**Total marks: 50**

Examen oral / Dictée / Document authentique / Présentation / Assignments /Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs / Les exercices d'écoute

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (20) K2 (10)	$4 \times 5 = 20$ (Les questions sur les textes littéraires) $2 \times 5 = 10$ (Le texte de compréhension)	4 K1 questions 2 K2 questions	4 K1 questions 2 K2 questions
B	K3, K4 (40)	$10 \times 4 = 40$ (Les exercices de grammaire)	10 K3 & K4 questions	12 K3 & K4 questions
C	K5 (30)	$2 \times 10 = 20$ (L'écriture créative) $1 \times 10 = 10$ (Résumé du texte littéraire)	2 K5 questions 1 K5 question	3 K5 questions 2 K5 question
	Total	100	19	23

Section A (30 points)

Les questions sur les textes littéraires (20 points)

Le texte de compréhension (10 points)

Section B (40 points)

Les exercices de la grammaire tirés du manuel prescrit ($10 \times 4 = 40$ points)

Section C (30 points)

L'écriture créative ($2 \times 10 = 20$ points)

Résumé des textes littéraires (10 points)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FR/FC/AD34												
III	Course Title: ADVANCED FRENCH - I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	3	2	2	1	2	1	1	2	3	3
CO 2	2	3	2	3	2	2	2	3	3	3	3	3	3
CO 3	2	2	1	3	1	1	2	1	3	3	2	3	2
CO 4	2	1	1	3	1	1	2	1	3	3	2	3	2
CO 5	1	2	2	3	2	2	1	2	3	3	3	2	3
High Correlation: 3				Moderate Correlation: 2					Low Correlation: 1				

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

BACHELOR OF VOCATIONAL (B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

**FOUNDATION COURSE – FRENCH
ADVANCED FRENCH - II**

CODE: 23FR/FC/AH44

CREDITS : 4

LTP : 4 0 0

TOTAL TEACHING HOURS : 52

OBJECTIVES OF THE COURSE

- To enumerate French writers and identify different genres of French writings.
- To understand various french literary texts.
- To comprehend different complex sentences.
- To analyse and apply their knowledge of vocabulary and grammar concepts.
- To paraphrase the French literary texts using the grammar concepts.

COURSE LEARNING OUTCOMES

On successful completion of the semester, the student should be able

COs	DESCRIPTION	CL
CO1	to recall the vocabulary to comprehend any text.	K1
CO2	to interpret the text and express effectively using their grammar knowledge.	K2
CO3	to frame correct, complete and structured complex sentences.	K3
CO4	to analyse diverse situations and express effectively using the acquired grammar concepts	K4
CO5	to summarize the French literary texts and to construct appropriate sentences using the acquired grammar knowledge.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1.	Mangez-vous correctement ?-2 1.1. Accepter 1.2. Refuser 1.3. Exprimer la certitude 1.4. Les pronoms directs et indirects 1.5. La condition avec ‘si’	K1- K5	12	1 – 5

UNIT	CONTENT	CL	Hrs	CO
2.	Ils ont eu tort tous les deux ! 2.1. Demande son chemin 2.2. Indiquer le chemin a quelqu'un 2.3. Reprocher/conseiller 2.4. Le passé composé 2.5. Adverbes 2.6. Mots interrogatifs	K1 - K5	10	1 – 5
3.	Comment as-tu passé le week-end ? 3.1. Parler des activités du week-end 3.2. Demander a quelqu'un de se taire 3.3. Le passé composé avec être 3.4. Faire du... <i>pouvoir, vouloir</i>	K1 - K5	10	1 – 5
4.	Contes 4.1. Le bâton percé de clous (Conte Maghrébin) 4.2. Le Petit Chaperon rouge (Charles Perrault)	K1 – K5	10	1 – 5
5.	Prose 5.1. Les vacances du petit Nicolas – C'est papa qui décide – 1 (Sempé / Goscinny) 5.2. Les vacances du petit Nicolas – C'est papa qui décide – 2 (Sempé / Goscinny)	K1 - K5	10	1 – 5

BOOKS FOR STUDY

K.Madanagobalane, Comité scientifique : R.Kichenamourthy, R. Venguattaramane, S.Pannirselvame, Varalakshmi Anandkumar, N.C.Mirakama1, *Synchronie 1*, Méthode de français, Chennai :Samhita Publications, 2011.

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Irani Zenobia, *Pathfinder*, New Delhi : Goyal Publishers & Distributors Pvt. Ltd., 2011.

Manjiri Khandekar, Roopa Luktuke sous la direction de : Surékha Kher & Raymond Capré, *Jumelage, Méthode de français et Cahier d'exercices, Niveau 1*, New Delhi : Langers International Pvt. Ltd.

Jean-Jacques Sempé, René Goscinny, *Les vacances du petit Nicolas*, Paris : Éditions Denoël, 1962.

WEB RESOURCES

www.franccparler.org

www.francaisfacile.com/exercices/

www.lepointdufle.net/

www.ccdmd.qc.ca.fr/

www.bonjourdefrance.com

<http://users.skynet.be/providence/vocabulaire/francais/menu.htm>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10) K2 (5)	$4 \times 2.5 = 10$ (Les questions sur les textes littéraires) $1 \times 5 = 5$ (Le texte de compréhension)	4 K1 questions 1 K2 question	4 K1 questions 1 K2 question
B	K3, K4 (20)	$5 \times 4 = 20$ (Les exercices de grammaire)	5 K3 & K4 questions	6 K3 & K4 questions
C	K5 (15)	$2 \times 5 = 10$ (L'écriture créative) $1 \times 5 = 5$ (Résumé du texte littéraire)	2 K5 questions 1 K5 question	3 K5 questions 2 K5 question
	Total	50	13	16

Other Components :**Total marks: 50**

Examen oral / Dictée / Document authentique / Présentation / Assignments / Test culturel (à l'oral ou à l'écrit) / Activités ludiques / Corriger les erreurs / Les exercices d'écoute

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per section	No. of Questions to be answered	No. of Questions to be set
A	K1 (20) K2 (10)	$4 \times 5 = 20$ (Les questions sur les textes littéraires) $2 \times 5 = 10$ (Le texte de compréhension)	4 K1 questions 2 K2 questions	4 K1 questions 2 K2 questions
B	K3, K4 (40)	$10 \times 4 = 40$ (Les exercices de grammaire)	10 K3 & K4 questions	12 K3 & K4 questions
C	K5 (30)	$2 \times 10 = 20$ (L'écriture créative) $1 \times 10 = 10$ (Résumé du texte littéraire)	2 K5 questions 1 K5 question	3 K5 questions 2 K5 question
	Total	100	19	23

Section A (30 points)

Les questions sur les textes littéraires (20 points)

Le texte de compréhension (10 points)

Section B (40 points)

Les exercices de la grammaire tirés du manuel prescrit ($10 \times 4 = 40$ points)

Section C (30 points)

L'écriture créative ($2 \times 10 = 20$ points)

Résumé des textes littéraires (10 points)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23FR/FC/AH44												
IV	Course Title: ADVANCED FRENCH - II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	3	2	2	1	2	1	1	2	3	3
CO 2	2	3	2	3	2	2	2	3	3	3	3	3	3
CO 3	1	2	2	3	2	1	1	2	3	3	2	2	3
CO 4	2	2	1	3	2	2	2	3	3	3	2	3	3
CO 5	1	2	2	3	2	2	1	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

FOUNDATION COURSE – HINDI
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF HINDI

PROGRAMME DESCRIPTION

The Department of Hindi encourages critical thinking and creative writing talent amongst students and hence brings out its annual departmental magazine Khilti Kaliyan. The Department caters not only to the foundation course Hindi students but also to the non-Hindi speaking students of other languages. Hence provides two general elective courses -Spoken Hindi and Hindi for Beginners. The department encourages creative latent talent amongst students in the form of III component presentations. Street plays, on stage poetry presentations, short one act plays are included in their third component.

The Department offers job oriented courses in the form of journalism, translation and functional Hindi. The Department along with the students has till date conducted ten National and four international conferences. With LOCF in place, we hope to further enhance the teaching learning process in languages in our institution.

VISION OF THE DEPARTMENT

Expansion of the department to include inter-disciplinary and research programmes thereby honing leadership, organisational skills of students which eventually enhance their employability.

MISSION OF THE DEPARTMENT

- To impart language proficiency and to facilitate the students of diverse socio, economic and cultural background to acquire linguistic and communicative skills.
- To kindle participatory learning methods through student-centred activities.
- To serve the student community with integrity and commitment through innovative and quality teaching.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1	To develop the basic skills of reading, writing and analysing in Hindi.
PSO2	To introduce prose, Poetry and one act plays, essays so as to emphasize the importance of values in life and also to sensitize them about important social issues.
PSO3	To introduce print and electronic media journalism to the students
PSO4	To introduce the basic principles of translation to the students with an eye on job opportunities in the translation cells of Government of India.
PSO5	To introduce students to technical terminologies used in functional Hindi

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.C.A. / B.S.W. DEGREE

FOUNDATION COURSE : HINDI

COURSES OF STUDY

(Effective from the academic year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23HN/FC/SR13	Saral Hindi Vyakaran Evam Rachna	3	3	1	0	3	50	50	100	
SEMESTER-II										
23HN/FC/GA23	Hindi Gadya Evam Abhyas	3	3	1	0	3	50	50	100	
SEMESTER-III										
23HN/FC/AP33	Aadhunik Kavita Evam Patra Lekhan	3	3	1	0	3	50	50	100	
SEMESTER-IV										
23HN/FC/PA43	Prachin Kavita, Anuvaad Evam Patrakarita	3	3	1	0	3	50	50	100	
GENERAL ELECTIVE COURSES										
23HN/GE/HB22	Hindi for Beginners	2	2	0	0	-	50	-	100	
23HN/GE/SH22	Spoken Hindi	2	2	0	0	-	50	-	100	

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 86
B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE PROGRAMME
FOUNDATION COURSE – HINDI

SYLLABUS
(Effective from the academic year 2023 – 2024)

SARAL HINDI VYAKARAN EVAM RACHNA

CODE: 23HN/FC/SR13

CREDIT: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To inculcate the basic knowledge of applied Hindi grammar so as to develop the language skills in students
- To train students in reading for ideas which will include issues on conservation of nature and communal harmony.
- Understand, appreciate and summarize the theme.
- Explain the ideology of literary works and writers.
- Interpret the contextual meaning and differentiation.
- Evaluate on the basis of elements, features and trends of Hindi prose literature.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	remember the concepts of basic Hindi grammar	K1
CO2	acquire the basic knowledge of vowels, consonants and mathras in Hindi	K2
CO3	apply the knowledge of grammar for composition writing	K3
CO4	critically analyze the prose text	K4
CO5	evaluate the theme and artistic skills of Hindi prose literature.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction to Etymology in Hindi 1.2 Mathras 1.3 Greeting and introductory words used in everyday life 1.4 Noun 1.5 Verbs	K1-K3 K1-K3 K1-K3 K1- K3 K1- K3	10	1-3
2	2.1 Synonyms, Antonyms 2.2 Homonyms 2.3 One-word substitution 2.4 Prefix, 2.5 Suffix	K1- K3 K1 - K3 K1 - K3 K1 - K3 K1- K3	10	1-3

UNIT	CONTENT	CL	Hrs	CO
3	3.1 Hindi Prose- An Introduction 3.2 Hamare Badalte Gaon 3.3 Colours 3.4 Alfred ka paschatap 3.5 Idioms	K1- K5	10	1-5
4	4.1 Deepavali se Seekh 4.2 Abhay Kaun? 4.3 Number 4.4 Gender 4.5 Phrases	K1- K5	12	1-5
5	5.1 Chandan aur Kichad 5.2 Sabse Kharab kya 5.3 Vegetables 5.4 Fruits 5.5 Flowers	K1- K5	10	1-5

BOOK FOR STUDY

Saral Hindi Vyakaran Aur Rachna- Dr.HarivanchTarun- Prakashansansthan, NewDelhi.

Saral Hindi vyakarana Avam GadyaParichay- Edited by -Dr.Srabani Bhattacharyya & Dr.A.Fathima –Aman Prakshan,Rambagh,Kanpur-208012.

Ankur - Edited by -Dr.Srabani Bhattacharyya & Dr.A.Fathima –Aman Prakshan,Rambagh,Kanpur-208012.

BOOKS FOR REFERENCE

Rajbhasha Hindi Vyakaran, Angar Prakashan, B. Laal (1999)

Adhunik Hindi Sahitya(vividhAayam), Vani,(2000), V.K.Abdul Jaleel

Hindi Dhvaniya Aur UnkaUcharan,Shalabh,(1996),BholanathTiwari.

Hindi Gadya ki vividhvidhayen, National,(1990),Pushpa Bansal

Hindi Grammar, HindiprcharSabha,C.R. Shastri,(1995).

Hindi Laghukatha Prakriti Aur Pehchan, Vani,(1992) Rishabhdev sharma.

Bharatiya Sanskriti ka Vikas, National,(1986),Dev.M.Shastri

Dictionary of Hindi Verbs, Lokbharati,(1998),Helmut Nespita

JOURNALS

Vak-Trimonthly Magazine,Ed- SadishPachauriNewDelhi

Pratimaan-Ed-AbhayKumar Duby ,NewDelhi

Mysore Hindi Prachar Prashad, Ed-Shri R. Chandrashekhar,Bangalore

WEBSITES

www.hindi classic kahaniyan.com

www.hindi viyakaran.com

www.nahikahani.com

PATTERN OF EVALUATION

Continuous Assessment Test:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 (objective type questions from Grammar)
B	K2	10	2 x 5 = 10 (theoretical questions from Grammar)
C	K3	10	1 x 10 = 10 (1 Out of 3 questions, from short stories)
	K4	10	1 x 10 = 10 (1 Out of 3 questions, from short stories-ERC)
D	K5	10	1 x 10 = 10 (1 Out of 2 questions, essay type question from short stories)

Other Component Test:

Total Marks: 50

Assignment /Seminar/ Presentation /Take Home Test/ Open Book Test/Group Presentation

Serial no	Cognitive Level	Marks allotted	Mode of test
1	K1-K3	20	Group Presentation
2	K4-K5	30	Story Telling

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 (objective type questions from Grammar)
B	K2	20	2 x 10 = 20 (theoretical questions from Grammar)
C	K3	20	2 x 10 = 20 (2 Out of 4 questions, from short stories)
	K4	20	2 x 10 = 20 (2 Out of 4 questions from short stories-ERC)
D	K5	20	1 x 20 = 20 (1 Out of 2 questions, essay type question from short stories)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HN/FC/SR13												
I	Course Title: SARAL HINDI VYAKARAN EVAM RACHNA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	1	2	1	2	3	3	1	1	2	2
CO 2	3	3	2	2	2	1	1	1	3	1	1	2	2
CO 3	3	3	3	3	3	1	1	1	2	3	3	3	3
CO 4	3	3	3	2	3	3	2	3	1	3	3	3	2
CO 5	3	3	3	2	3	1	2	2	1	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. A. / B.Sc. / B.V.A. / B.S.W./ B.C.A./ B.Com. /B.B. A. DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023–2024)

HINDI GADYA EVAM ABHYAS

CODE: 23HN/FC/GA23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce simple stories, one act plays and essays to the students so as to emphasize the importance of values in life.
- To sensitize students about social, gender and environmental issues.
- To workout comprehension passages so as to improve their understanding and vocabulary skills.
- To train students to interpret contextual meaning and differentiation.
- To develop creative thinking and writing skills.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Remember and recall the themes of the taught lessons.	K1
CO2	Understand and interpret the aural inputs.	K2
CO3	Apply the knowledge of language elements for writing answers.	K3
CO4	Analyse the theme and artistic skills of one act play, short stories and essays	K4
CO5	Appraise and evaluate the basic theme and technique of the given literary work.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Hindi Stories–An Introduction.	K1- K3	8	1-3
	1.2 The development of Hindi Stories writers	K1- K3		
	1.3 Modern Hindi story writers	K1- K3		

UNIT	CONTENT	CL	Hrs	CO
2	2.1. Types of stories – 2.2. Social 2.3. Psychological 2.4. Idgah-Premchand 2.5. Atha kinnar katha- Dr.Mahendra Pratap Singh 2.6. Akeli -Mannu Bhandari 2.7. Chief ki Dawat - Bhisma sahani	K1- K3 K1- K3 K1 - K5 K1 - K5 K1 - K5 K1 - K5	12	1-5
3	3.1. Hindi one act plays-An introduction 3.2. Hindi one act plays after Dr.Ramkumar Verma 3.3. Vapasi - Usha priyamvada 3.4. Dehlez-Dr.Krishna shrivastav 3.5. Ped Lagao,ped lagao-Shri Prakash Manu	K1 - K5 K1 - K5 K1 - K5 K1 - K5 K1 - K5	12	1-5
4	4.1 Comprehension passages in Hindi 4.2. Practice Comprehension	K1 – K2 K1 – K2	10	1-2
5	5.1 Hindi Essays –An Introduction 5.2 Bekari ki samasaya 5.3 Bharath mein nari ka sthan 5.4 Computer 5.5 Shiksha ka mahathav 5.6 Sahitaya Aur Samaj	K3 – K4 K3 – K4 K3 – K4 K3 – K4 K3 – K4	10	1-2

BOOKS FOR STUDY

Gadya vividhtha - Dr.SrabaniBhattacharyya & Dr.A.Fathima –Aman

Prakshan,Rambagh,Kanpur-208012.

Hindi Kahani, Ekanki aur Nibandh - Edited by -Dr.SrabaniBhattacharyya & Dr.A.Fathima – Aman Prakshan,Rambagh,Kanpur-208012.

Proyojanmulak Hindi –Paribhashik shabd shabadansh- Dr.Madhu Dhawan,Vani prakashan, New Delhi.

BOOKS FOR REFERENCE

Students useful Hindi Essays ,Madanlal Varma & Jai Bhagwa Sharma,Anil Prakashan, Delhi,2017

Modern Essay ,Suresh Kumar,Central Institute of Hindi Agra,2012

Essay 7 letter writing , Rama Shankar, M.B pulisher & Distributors , Jaipur ,2019

IGNOU MHD -10 Premchand Ki Kahaniya,GPH Panel of Experts ,Gullybaba Publication ,2021

RamKumar Varma ,Chandra lal ,Shitya Akademi,Delhi 2017

Usha Priyamvada ke katha sahitya mein Adhunikta Bodh,Neeta D.Shosale,Hindi Book Centre, 2014

JOURNALS

Sahitya Kranti-International Hindi Journal, Ed-Sanjeev Kumar Sengar,NewDelhi

Vak-Trimonthly Magazine,Ed- Satish Pachauri,NewDelhi

Pratimaan-Ed-Abhay Kumar Duby,NewDelhi

Mysore Hindi Prachar Prashad,ed-Shri R.Chandrashekhar,Bangalore

WEB SOURCES

www.hindivyakaran.com
www.prayojanmulak.com
www.ekankicriticismbooks.com
www.vishnuprabhakar.com

PATTERN OF EVALUATION

Continuous Assessment Test: Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks	Pattern
A	K1	15	3 x 5 = 15 3 Out of 5 questions from Kahani (story) and Ekanki (one act plays)
B	K2	10	5 x 2 = 10 (One comprehension passage with five questions)
C	K3	10	1 x 10 = 10 (Write any One - Nibandh (Essay)(one out of Three)
D	K4 & K5	15	1 x 15 = 15 One essay type Question from Kahani (Story) or Ekanki (One act ply)(One out of two)

Other Component Test : Total Marks: 50

Assignment /Seminar/ Presentation /Take Home Test/ Open Book Test/Group Presentation

Serial no	Cognitive Level	Marks	Mode of test
1	K1-K3	20	Essay writing
2	K4-K5	30	Play Enactment

End Semester Examination: Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	40	4 x 5 = 20 (4 Out of 5 questions from Kahani (story) 4 x 5 = 20 (4 Out of 5 questions Ekanki (one act plays)
B	K2	15	5 x 3 = 15 One comprehension passage with five questions
C	K3	15	1 x 15 = 15 (Write any One - Nibandh (Essay))(One out of Three)
D	K4 & K5	30	2 x 15 = 30 (I) One essay type Question from Kahani(story)(one out of two) (II) One essay type Question from Ekanki (One Act Play) (One out of Two)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HN/FC/GA23												
II	Course Title: HINDI GADYA EVAM ABHYAS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	3	3	2	1	3	3	3	3	1	1	2
CO 2	3	2	3	3	2	1	3	3	3	3	1	1	1
CO 3	3	3	3	3	2	1	3	3	3	3	2	1	1
CO 4	3	3	3	3	3	1	3	3	3	3	1	1	2
CO 5	3	3	3	3	2	1	3	3	3	3	1	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 86

B.A. / B.Sc. / B.V.A./B.S.W. DEGREE PROGRAMME

FOUNDATION COURSE – HINDI

SYLLABUS

(Effective from the academic year 2023 -2024)

AADHUNIK KAVITA AVAM PATRA LEKHAN

CODE: 23HN/FC/AP33

CREDIT: 3

L T P: 310

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To give an overview of the recent trends in modern Hindi poetry.
- To introduce students to format the structures of official, business and personal letters.
- To introduce students to technical terminologies used in functional Hindi
- Explain the ideology of poet and their works.
- Interpret the contextual meaning and differentiation.
- Criticize and evaluate poetry.

COURSE LEARNING OUTCOMES :

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Remember the basic figurative devices used in poetry.	K1
CO2	Extend basic professional skills for business and official correspondence and apply it to government official correspondence.	K2
CO3	Apply language skills for critical analyses of poetry	K3
CO4	Evaluate poetry based on the specific parameters for analysis	K4
CO5	Develop original pieces for analytical writing.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Modern Hindi poetry – An Introduction 1.2 Prominent poets after 1900 1.3 Poetry in khadi boli Hindi 1.4 Tum logon se door – Gajanan Madhav Muktibodh	K1- K3 K1- K3 K1- K3 K1 –K5	12	1-5
2	2.1 Jo beet gayee so baat gayee – Harivanch Rai Bacchan 2.2 Pushpa ki Abilasha – Makhan Lal Chaturvedi 2.3 Kavi aur kalpana- Dharmaveer Bhaarathi 2.4 Administrative Terminology Hindi to English	K1 – K5 K1 – K5 K1 – K5 K1 – K2	14	1-5

UNIT	CONTENT	CL	Hrs	CO
3	3.1 Murjaya hua pool – Mahadevi Verma 3.2. Administrative Terminology English to Hindi 3.3 Personal Letters – Letter to Father /Mother 3.4 Letter to friend	K1- K5 K1- K2 K1- K5 K1- K5	16	1-5
4	4.1 Vardan mangooga nahi- Shiva mangal singh suman 4.2 Aao phir se Goan Banaye – Seetasharan Sharma 4.3 Official letter – circular 4.4 Enquiry 4.5Reminder (Annusmarak)	K1- K5 K1- K5 K1- K3 K1- K3 K1- K3	18	1-5
5	5.1 Nirbhay- Subramaniam Bharathi 5.2 Ordering Books 5.3 Transfer of A/C 5.4 Paribhashik shabdavali –Name of designations	K1- K5 K1- K5 K1- K5 K1- K2	18	1-5

BOOK FOR STUDY

Aadhunik Kavita avam Patra Lekhan – Edited by -Dr.SrabaniBhattacharyya & Dr.A.Fathima, Aman Prakshan,Rambagh,Kanpur-208012.

Prayojan mulak Hindi – Dr. Syed Rahamathulla, Poornima Prakashan , Chennai – 14

Abhinav Karyalay Aalekhan Aur Tippian-Dr.Vidyashree- Aman Prakshan,Rambagh,Kanpur-208012.

BOOKS FOR REFERENCE

Adhunik Yug ki Hindi Lekhikayen, (1996)Vani,, Sreemathi Umesh Mathur.

Hindi ke Manovaigyanik Upanyas Aur Nari (2000),Vani,, Ramvinod Singh.

Hindi mein Sarkari Kaamkaaj,Hindi Prachar sabha,(2001) Ramvinayak Singh.

Madyakaleen Avam Aadhunik Kavya Dhara- Edited by Dr.Srabani Bhattacharyya &Dr.A.Fathima-Aman Publication,(2016), Rambagh, Kanpur-208012.

JOURNALS

Hindi Sahitaya ka Subodh Itihaas-Babu Gulab Rai-1985

Hindi Sahitaya ka Itihaas- Dr.Shiv kumar sharma-1989

Aadhunik hindi Kavya Roop aur sanrachana,Nirmala Jain-1990

Hindi Kavya aur prayogvad, Ramkumar- Kandelval 2001

Hindi Krishna Kavya,Sudha caturvedi,Sudha Publication -2006

WEBSITES

www.hindisahatyitihhas.com

www.hindisahitya.com

www.chayavathikavyadhara.com

www.parakathivathikavyadhara.com

PATTERN OF EVALUATION

Continuous Assessment Test: Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks	Pattern
A	K1	15	3 x 5 = 15 (3 Out of 5 questions from poetry, designation (Padnam))
B	K2	10	5 x 1 = 5 (Administrative Terminology Hindi to English) 5 x 1 = 5 (Administrative Terminology English to Hindi)
C	K3	10	1 x 5 = 5 (Explain with reference to context)(Any one out of two, from poetry) 1 x 5 = 5 (Letter writing)(One out of Two)
D	K4 & K5	15	1 x 15 = 15 (Essay type Question from poetry (One out of Three))

Other Component Test : Total Marks: 50

Assignment /Seminar/ Presentation /Take Home Test/ Open Book Test/Group Presentation

Serial no	Cognitive Level	Marks	Mode of test
1	K1-K3	30	Poetry Presentation
2	K4-K5	20	Research article

End Semester Examination : Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	30	6 x 5 = 30 (Six out of Eight questions from poetry, designation (Padnam))
B	K2	20	5 x 2 = 10 (Administrative Terminology Hindi to English) 5 x 2 = 10 (Administrative Terminology English to Hindi)
C	K3	20	1 x 10 = 10 (Explain with reference to context)(Any one out of Two, from poetry) 1 x 10 = 10 (Letter writing)(One out of Two)
D	K4 & K5	30	2 x 15 = 30 (Essay type Question from poetry (Two out of Four))

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HN/FC/AP33												
III	Course Title: AADHUNIK KAVITA EVAM PATRA LAKHAN												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	1	1	3	3	3	3	1	1	1
CO 2	3	3	3	3	2	2	1	1	3	1	1	1	1
CO 3	3	3	3	3	2	3	3	3	3	3	1	2	1
CO 4	3	3	3	3	3	2	3	3	3	3	1	1	1
CO 5	3	3	2	3	2	2	3	3	3	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 86

B. A. / B.Sc. / B.S.W. DEGREE PROGRAMME

FOUNDATION COURSE – HINDI

SYLLABUS

(Effective from the academic year 2023 -2024)

PRACHIN KAVITA, ANUVAAD AVAM PATRAKARITA

CODE: 23HN/FC/PA43

CREDIT: 3

L T P: 5 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To expose the students to the Golden Era in Hindi poetry, i.e. Medieval Era
- To expose the students to the translated work of a specific classical Tamil poet.
- To train the students for print and electronic media journalism.
- To introduce principles of basic translation to students with an eye on job opportunities in the Translation Cells of Govt. of India.
- To train students in the summarization and interpretation of contexts.
- To train students in the art of report writing and reportarj (specific to Hindi Journalism)

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Identify the literary trends of medieval Hindi Literature, and social conditions and its impact on medieval poetry	K1,K2
CO2	Summarize the content of prescribed poems and correlate it with trends in the given era.	K3
CO3	Explain the methods and techniques of translation in different fields and write news and report on their own with headline and dateline.	K4
CO4	Employ specific methods for translation of poetry.	K5
CO5	Assess the subject and ideology of medieval poetry and contribution of different medieval poets.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Medieval poetry – An Introduction 1.2 Kabir ke Dohe (1,2,3,4,5) 1.3 Surdas ke Pad (1,2,3,4) 1.4 Thirukkural (1,2,3,4,5)	K1 – K5 K1 – K5 K1 – K5 K1 – K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
2	2.1 Patrakarita – Arth, Paribhasha 2.2 Patrakarita - Mahatav 2.3 Patrakarita-Prakar 2.4 Samachar- Arth, Paribhasha 2.5 Samachar- Mahatav	K1 – K5 K1 – K5 K1 – K5 K1 – K5 K1 – K5	12	1-5
3	3.1 Gramin Patrakarita 3.2 Aarthik Patrakarita 3.3 Khel Patrakarita 3.4 Film Patrakarita	K1 – K3 K1 – K3 K1 – K3 K1 – K3	10	1-5
4	4.1 Translation – Definition and Meaning 4.2 Importance of Translation in everyday life 4.3 Characteristics of a Good Translator 4.4 Types of translation – Prose Translation 4.5 Types of translation – Poetry Translation	K1 – K5 K1 – K5 K1 – K5 K1 – K4 K1 – K4	10	1-5
5	5.1 Practical Translation Practise- Hindi to English 5.2 Practical Translation Practise- English to Hindi	K4 - K5 K4 - K5	8	1-5

BOOK FOR STUDY

Bakthikaleen kavita, Anuvaad avam Patrakarita– Edited by Dr.Srabani Bhattacharyya & Dr.A.Fathima- Aman Publication, Rambagh, Kanpur-208012.

Anuvaad ke sidhandh Avam Prayog – Ek Parichay – Dr.Shrabani Bhattacharyya-Aman Publication, Rambagh, Kanpur-208012.

BOOKS FOR REFERENCE

Adhunik Yug ki Hindi Lekhihayen, Vani, (1990), Sreemathi Umesh Mathur.

Aathvein Dashak ke hindi Upanyas, Shalabh, (1990), Rajnikanth Jain.

Hindi mein Sarkari Kaamkaaj, Hindi Prachar sabha, (1995), Ramvinayak Singh.

Anuvaad :Sidhanth aur prayog ,Dakshin Bharat Hindi prachar sabha 2006

Anuvaad ka Anuproyath –Vyavaharik Basha-1 , Dakshin Bharat Hindi prachar sabha 2006

Prayogik Patrakarita- Dr.A.Fathima-Aman Publication-2015 Rambagh, Kanpur-208012,

JOURNALS

Kafla International – An International Tri Annual Journal of Art, Literature & culture.

Mona Enterprises Ed- Dev Bharadwaj

Shri Milind-Ed.Dr.P.G.Ghanate-Hyderabad

Vasav Marg-Hindi Quarterly – Chief Editor –Dr.T.G.Prabhashakar Premi, Bangalore

Mimansa- Hindi Varshik Patrika- National centre for cell science ,Pune

Ispat Bhasha Bharati-Steel Authority of India Limited ,Delhi

Pratimaan, Chief Editor-Abhay Kumar Dubey, Vani Prakashan, New Delhi

Agradhara-Chief Editor-Ramesh Gupt Neerad ,Chennai

WEBSITES

www.hinditranslation.com

www.anuvaad.com

www.patrakaritha.com

PATTERN OF EVALUATION

Continuous Assessment Test : Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks	Pattern
A	K1	15	3 x 5 = 15 Answer any Three questions out of Five (from Medieval Poetry, Translation and Journalism)
B	K2 & K3	10	1 x 10 = 10 Explain with reference to context(One out of Two from Medieval Poetry)
C	K4	10	1 x 5 = 5 (Translation passage – English to Hindi) 1 x 5 = 5 (Translation passage – Hindi to English)
D	K4 & K5	15	1 x 15 = 15 Essay type Question from Medieval Poetry, Translation and Journalism (One out of three)

Other Component Test : Total Marks: 50

Assignment /Seminar/ Presentation /Take Home Test/ Open Book Test/Group Presentation

Serial no	Cognitive Level	Marks	Mode of test
1	K1-K3	20	Film Review
2	K4-K5	30	Translation project

End Semester Examination : Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	30	6 x 5 = 30 Answer any Six question out of Eight (from Medieval Poetry, Translation and Journalism)
B	K2 & K3	10	1 x 10 = 10 Explain with reference to context (One out of Three - from Medieval Poetry)
C	K4	20	1 x 10 = 10 (Translation passage – English to Hindi) 1 x 10 = 10 (Translation passage – Hindi to English)
D	K4 & K5	40	2 x 20 = 40 Answer any Two questions out of Four (from Medieval Poetry, Translation and Journalism)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23HN/FC/PA43												
IV	Course Title: PRACHIN KAVITA ,ANUVAAD EVAM PATRAKARITA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	1	3	3	3	3	3	1	1	2
CO 2	3	2	3	3	1	2	3	3	3	3	1	1	1
CO 3	3	3	3	3	3	2	3	3	3	2	3	3	3
CO 4	3	3	3	3	3	2	2	2	3	2	2	2	2
CO 5	3	3	3	3	2	1	3	3	3	3	1	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 86

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE
FOUNDATION COURSE – HINDI**

SYLLABUS

(Effective from the academic year 2023 – 2024)

HINDI FOR BEGINNERS

CODE: 23HN/GE/HB22

CREDIT: 2

LT P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To develop communication skills in Hindi for the students belonging to non Hindi speaking areas.
- To enable students to get an idea about Hindi syntax .
- To develop the capacity to read passages in Hindi.
- To train the students for oral and written work in Hindi.

COURSE LEARNING OUTCOMES :

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	remember the correct sounds of Hindi vowels & consonants	K1
CO2	understand the correct usage of Hindi.	K2
CO3	apply the oral and written knowledge so acquired for Hindi sentence formation	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	The Hindi alphabet – an introduction – vowels & consonants	K1-K3	5	1-3
2	Mathras, Names, Colors, Vegetables, Flowers, Fruits	K1-K3	5	1-3
3	Relatives, Occupations, Parts of Body	K1-K3	5	1-3
4	Parts of speech, Gender, Number, Verb-action words	K1-K3	5	1-3
5	Introduction to sentence Formation, Counting and Writing numbers	K1-K3	6	1-3

BOOK FOR STUDY

Prathmik Hindi-Dr.A.Fathima Sudharshan Publication, Chennai-2016

REFERENCE BOOKS

Pankhuriyan (Part-I) Viva Publication- Dr.Madhu Dhawan

Pankhuriyan (Parveshika) Viva Publication- Dr.Madhu Dhawan

JOURNALS

Pingu learns Hindi –Ed.Sonia Taneja-2012 – McGraw Hill

Complete Hindi –Rupert Snell -2014 Teach Yourself

Elementary Hindi –Ed . Sudha Joshi & Richard Delacy -2009-Tuttle Publishing

WEBSITES

www.loecsen.com

www.duolingo.com

www.lingohut.com

PATTERN OF EVALUATION

Continuous Assessment Test : Total Marks: 50

Duration: 90 Minutes

Section	Cognitive levels	Marks	Pattern
A	K1	25	5 x 5 = 25 (5 Out of 8 questions from Grammar)
B	K2	15	5 x 3 = 15 (One Comprehension passage with five questions)
C	K3	10	1 x 10 = 10 (Write conversation in Hindi)

Other Component Test : Total Marks: 50

Assignement /Seminar/ Presentation /Take Home Test/ Open Book Test/Group Presentation

Serial no	Cognitive levels	Marks	Mode of test
1	K1 & K2	25	25 (Role Play in Hindi)
2	K2 & K3	25	25 (Story Telling)

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FOUNDATION COURSE – HINDI

SYLLABUS

(Effective from the academic year 2023 – 2024)

SPOKEN HINDI

CODE: 23HN/GE/SH22

CREDIT: 2

LT P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To develop communication skills in Hindi for the students belonging to non Hindi speaking areas.
- To enable students to get an idea about Hindi syntax .
- To develop the capacity to read passages in Hindi.
- To train students in correct hindi pronunciation

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Remember the correct sounds of Hindi vowels & consonants	K1
CO2	Understand the correct method of using Hindi vocabulary	K2
CO3	Apply the aural knowledge so acquired for Hindi sentence formation	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Hindi Alphabets –an introduction – vowels & consonants.	K1-K3	5	1-3
2	Greetings and introductory words in day to day life.	K1-K3	5	1-3
3	Names,Colors,Vegetables,Flowers,Fruits,Time	K1-K3	5	1-3
4	Relations,Relatives,Occupations,Parts of Body	K1-K3	5	1-3
5	Part of speech ,Gender,Number,Verb-actionwords,Dialogue delivery	K1-K3	6	1-3

BOOK FOR STUDY

Prathmik Hindi-Dr.A.Fathima Sudharshan Publication,Chennai

Spoken Hindi for beginners –Dr. Kamala Vishwanathan,viva publications

REFERENCE BOOKS

Pankhuriyan (Part-I) Viva Publication- Dr.Madhu Dhawan
Pankhuriyan (Parveshika) Viva Publication- Dr.Madhu Dhawan
Jain Puja,Pandhuriyan C.D , Viva Publication

JOURNALS

Pingu learns Hindi –Ed.Sonia Taneja-2012 – McGraw Hill
Complete Hindi –Rupert Snell -2014 Teach Yourself
Elementary Hindi –Ed . Sudha Joshi & Richard Delacy -2009-Tuttle Publishing

WEBSITES

www.loecsen.com
www.duolingo.com
www.lingohut.com

PATTERN OF EVALUATION

Continuous Assessment Test : Total Marks : 50

Duration: 90 Minutes

Section	Cognitive Level	Marks	Pattern
A	K1	25	5 x 5 = 25 (Oral objective type questions)
B	K2 & K3	25	25 (Story Telling)

Other Component Test : Total Marks : 50

Assignment /Seminar/ Presentation /Take Home Test/ Open Book Test/Group Presentation

Serial no	Cognitive Level	Marks allotted	Mode of test
1	K1-K3	25	Oral test Component
2	K1-K3	25	Role Play in Hindi



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

FOUNDATION COURSE – SANSKRIT
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

PREFACE

For centuries, Sanskrit has been the repository of Indian wisdom. In the ancient period of her history itself, India had made significant strides in several areas of knowledge production. India has a rich tradition of philosophy and religion along with major achievements in logic, mathematics, law, medicine, literature, dramatics, agricultural sciences, marine technology and many crafts and trades.

In the twenty first century, the Euro –centric approach is being challenged and it is being increasingly recognized that Asian and especially Indian knowledge systems need to be revived and used for the betterment of humankind. As the principal medium of all intellectual advancements in India, Sanskrit needs to be given a pride of place in the scheme of studies

The Department of Sanskrit started in the year 1950 to encourage students to learn and appreciate Sanskrit the Indian classical language. The Department offers 12 credit foundation courses for first and second year UG students under Part I Language program. The program caters to the students of heterogeneous group. The syllabus for each semester is designed with selections from Sanskrit Language & Literature, which are approved by subject experts. The syllabus includes induction program for first time learners of this classical language.

The course provides students a wide exposure to various genres of Sanskrit literature such as Poetry, Prose, Drama, Didactic, Minor & Major Epic Poetry etc. which have inspired and continue to inspire great literary works in almost all Indian languages. Sanskrit department also offers periodic guest lectures inviting subject experts to delve deep into various topics of Sanskrit Language and literature and its relevance to modern day. Sanskrit theatre groups are invited to interact and share their experiences with students.

The Sanskrit syllabus has a two-pronged objective – to introduce students to a variety of traditional disciplines in Sanskrit studies and to strengthen their knowledge of the language.

The four-semester foundation course in Sanskrit will thus make students better equipped to pursue their postgraduate studies and undertake further research in Sanskrit language.

DEPARTMENT OF SANSKRIT

The Vision and Mission of the Department

Vision:

The Department helps students to have an understanding of their self while learning the ethical and moral values culled out from Sanskrit literature. The importance of being humane and adhering to values in life is instilled in this learning exercise thereby the student community will emerge as responsible citizens shaping the future of the nation.

Mission:

To motivate students to learn the classical language Sanskrit and to know various knowledge systems of our country that are available in Sanskrit Language and Literature and inculcate a desire for lifelong learning.

PROGRAMME EDUCATIONAL OBJECTIVES – FOUNDATION COURSES

S.NO	Institutional objectives	PEOs The Foundation Courses in English and the languages aim to
1	To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation.	train students in effective communication and skills in the respective languages
2	To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities.	equip students with skills in language and/or literatures for employability and/or entrepreneurship
3	To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners.	enable students to use their skills in the respective languages for academic excellence in different fields and inculcate a desire for lifelong learning
4	To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity.	sensitize students to plurality and diversities of various kinds through a study of various languages and/or literatures in these languages
5	To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities.	train students in using skills in different languages and/ or literatures to fulfil their social and civic responsibilities

PROGRAM OUTCOMES (POS)- FOUNDATION COURSES

S.NO	PROGRAM EDUCATIONAL OBJECTIVES The Foundation Courses in English and the languages aim to	PROGRAM OUTCOMES On successful completion of the foundation course in English and the languages, the student will be able to
1	train students in effective communication and skills in the respective languages	effectively use various languages to communicate in the written and oral modes
2	equip students with skills in language and/or literatures for employability and/or entrepreneurship	utilize their knowledge and skills of different languages/literatures for employability/entrepreneurship
3	enable students to use their skills in the respective languages for academic excellence in different fields and inculcate a desire for lifelong learning	excel in various fields using their knowledge and skills in different languages / literatures while displaying a strong desire for lifelong learning
4	sensitise students to plurality and diversities of various kinds through a study of various languages and/or literatures in these languages	sensitively and empathetically respond to plurality and diversity through their study and analysis of different languages and/or literatures
5	prepare students to use skills in different languages and/ or literatures to fulfil their social and civic responsibilities	fulfil their social and civic responsibilities by using the skills in different languages and/or literatures

PROGRAMME SPECIFIC OUTCOMES (PSO)

S.NO	PROGRAMME SPECIFIC OUTCOMES (PSO) - SANSKRIT
1	Acquire knowledge of Basic Sanskrit grammar and develop accuracy in the use of Sanskrit language in times of need.
2	Understand the complex dynamics of Sanskrit literary genres and understand their implication on day-to-day life.
3	Appreciate the literary, cultural and socio-historical contexts in which literature is written and read
4	Develop a broad knowledge and understanding of the cultural contexts, and theoretical dimensions of the subject and the presentation of themes in the reading of texts.
5	Create an awareness of the depth and complexity of human existence, perceived across the boundaries of time, place, culture, race, ethnicity and gender.

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FOUNDATION COURSE : SANSKRIT

COURSES OF STUDY

(Effective from the academic year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23SN/FC/VN13	Vyakarana and Niti Dvisastika	3	3	1	0	3	50	50	100
SEMESTER-II									
23SN/FC/RR23	Ramodanta and Ramayana	3	3	1	0	3	50	50	100
SEMESTER-III									
23SN/FC/MN33	Mahabharata and Nalopakhyanam	3	3	1	0	3	50	50	100
SEMESTER-IV									
23SN/FC/KA43	Karnabharam and Alankara	3	3	1	0	3	50	50	100
GENERAL ELECTIVE COURSES									
23SN/GE/SB22	Sanskrit for Beginners	2	2	0	0	-	50	-	100
23SN/GE/SR22	Stress Relieving Techniques in Sanskrit Literature	2	2	0	0	-	50	-	100

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FOUNDATION COURSE–SANSKRIT

SYLLABUS

(Effective from the academic year 2023-24)

VYAKARANA AND NITI DVISASTIKA

CODE: 23SN/FC/VN13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVE OF THE COURSE

- To acquaint the students with the Language Sanskrit and its rich Literature through short lyrical verses of Nitidvisastika and other genres of Sanskrit Minor lyrics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basics of Sanskrit Language such as Aksharas of Devanagari script with pronunciation, Padas, Padarthas, Vakyaas etc	K1, K2
CO2	apply their knowledge of Sanskrit Vyakarana to read & write simple words and translate simple Sanskrit sentences.	K2
CO3	distinguish the broad classification of Sanskrit literature particularly the short lyrical poems. Compare & Contrast the didactic codes prescribed in Nitikavyas of Sanskrit Literature with other literature (Eg: Tirukural)	K3
CO4	enumerate the influence of Moral & Ethical values over other later Minor lyrical works in Sanskrit Literature	K4
CO5	rewrite / Construct the conjugation and declination of similar verbs and nouns respectively.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Basics of Sanskrit 1.1 Introduction to Language 1.2 Introduction to Alphabets Of Sanskrit 1.3 Swara Vyanjana- Samyuktakshara, Linga(Gender), Vacana(Number), Purusha(Person) 1.4 Sabdas(Nouns), Dhatus (Verbs) 1.5 Introduction to Sanskrit Sahitya	K1-K5	7	1-5
2	Vyakarana 2.1 Introduction to Reading and Writing –2 &3 Letter Words, 2.2 Sabdas (Noun) Declension with Vibhakti artha 2.3 Decline ‘a’ ending Masculine and ‘aa’ ending Feminine Nouns History of Sanskrit Literature 2.4 Introduction to Sanskrit Literature, 2.5 Classification of Literature 2.6 Important Works of Sanskrit Khandakavyas & Gnostic Poetry 2.7 Introduction to Niti Kavyas and some important poets of gnostic genre	K1-K5	15	1-5
3	Vyakarana 3.1Dhatu (Verb) Conjugation in Present Tense (Parasmaipada only) 3.2 Sandhi- Vowel & Consonant 3.3 Simple Sentence Constructions (using Present tense) 3.4 Translation exercises for simple sentences	K1-K5	10	1-5
4	Niti Dvisastika 4.1 Introduction to Sundarapandya and his Gnostic work Nitidvisastika 4.2 Selected verses of Nitidvisastika (1-5) 4.2.1 Selected verses of Nitidvisastika 6-10)	K1-K5	10	1-5
5	Niti Dvisastika 5.1 Selected verses of Nitidvisastika (11-15) 5.2 Selected verses of Nitidvisastika (16-20) 5.2.1 Selected verses of Nitidvisastika (21-25)	K1-K5	10	1-5

TEXT BOOKS

Samskrta Pustika I (Compilation of Vyakarana & Nitidvisastika) prepared by Dr.R.Subasri, Stella Maris College, Chennai

BOOKS FOR REFERENCE

SamskrtaSri (Part 1-3)

Nitidvisastika of Sundarapandya, cr.ed by Dr.S.Jayasree, The Adyar Library and Research Centre, Chennai, 1984

Sanskrit for beginners by Dr.Ramaratnam, N.R. Publications, Chennai, 2000

A Short History of Sanskrit Literature, by T.K.RamachandraAiyar, R.S.Vadhyar&Sons, Palghat, 2011.

History of Sanskrit Literature by A.A.Macdonell

WEBSITES

www.learnsanskrit.org

www.sanskrit.samkrtam.com

<http://shastranethralaya.org>

www.forum.shastranethralaya.org

www.sanskritebooks.org

<https://grammarofsanskrit.wordpress.com/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1	10 (10x1=10)	All questions are based on Vyakarana and Khandakavyas
B	K2 & K3	20 (4x5=20)	Annotate & Explain fully translate from Nitidvisastika Authors & Works of Khandakavyas
C	K4 & K5	20 (2x10=20)	History of Sanskrit Literature / Nitidvisastika/ Grammar

Other Components:

Total Marks: 50

Word play on Verbs and Nouns (Vyakarana) (K1) (10 Marks)

Assignment (K2-K3) (20 Marks)

Quiz /Test on Khandakavyas – Authors/Poets and Works (K4-K5) (20 Marks)

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1&K2	20 (10x2=20) Any 10 to answer	All questions are to be based on Vyakarana and Khandakavyas
B	K2&K3	40 (5x8=40) Any 5 to answer	Annotate & Explain fully translate from Nitidvisastika . Authors & Works of Khandakavyas History of Sanskrit Literature – Sandesa, Bhakti and Niti kavyas
C	K4 & K5	40 (4X10=40) Any 4 to answer	Questions based on text Nitidvisastika Grammar – Declination & Conjugation of Nouns & Verbs (INTERNAL CHOICE)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SN/FC/VN13												
	Course Title: VYAKARANA & NITIDVISASTIKA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	3	1	1	1	1	3	2	2	2	1
CO 2	1	1	2	3	1	1	1	1	3	2	2	3	2
CO 3	2	2	3	2	2	2	3	1	3	2	2	3	3
CO 4	2	2	3	3	2	2	1	3	2	2	3	3	3
CO 5	1	2	1	2	2	1	1	2	3	2	1	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

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FOUNDATION COURSE–SANSKRIT

SYLLABUS

(Effective from the academic year 2023-24)

RAMODANTA & RAMAYANA

CODE: 23SN/FC/RR23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To acquaint the students with the rich treasures of Sanskrit Literature through short lyrical verses of Devotional type and Classical Indian Epic- Ramayana.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the use of Prefix and Indeclinable in Sanskrit language	K1, K2
CO2	apply their knowledge to change affirmative sentences to interrogative sentences	K3
CO3	analyze the historical importance of Indian Classical Epic – RAMAYANA	K4
CO4	enumerate the influence of Epic Ramayana over other later Sanskrit Literature	K5
CO5	access the wide range of Devotional lyrics of Sanskrit literature and importance of Bhakti movement in Indian History	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	VYAKARANA 1.1 Declension of Masculine & Feminine Noun ending in ‘i’ and ‘u’ 1.2 Verb Conjugation in Past and Future tense (<i>Parasmai pada</i> only) 1.3 <i>Avyayas, Upasargas</i> 1.4 <i>Krdanta Pratyayas (Ktva, Lyap and Tumun),</i> 1.5 Simple Interrogative Sentences	K1-K5	7	1-5

UNIT	CONTENT	CL	Hrs	CO
2	RAMODANTA 2.1 Introduction to Ramodanta- the lyrical work based on Ramayana 2.2 Introduction to Bhakti kavyas 2.3. Ramayana based Sanskrit works 2.4 Some important authors of devotional literature 2.5 Mahakavyas based on Ramayana VYAKARANA 2.6 Simple sentence construction using <i>Avyayas</i> , <i>Upasargas</i> , <i>Pratyayas</i> 2.7 Simple sentence construction using <i>Krdanta</i> , <i>Pratyayas</i> 2.8 Simple Translation Exercises 2.9 Unknown Passage Translation 2.10 Frame sentences using Past & Future tense	K1-K5	15	1-5
3	RAMAYANA 3.1 Introduction to Ramayana- Origin, Date of the epic & Development 3.2 Authorship of Ramayana 3.3 Kandas of the Epic-Ramayana 3.4 Influence of Ramayana in later Sanskrit Literature 3.5 Sanskrit dramas based on Ramayana	K1-K5	10	1-5
4	RAMODANTA 4.1 Selected verses from <i>Ramodanta (Bala Kanda)</i> 4.2 Selected verses from <i>Ramodanta (Ayodhya Kanda)</i> 4.3 Selected verses from <i>Ramodanta (Aranya Kanda)</i>	K1-K5	10	1-5
5	RAMODANTA 5.1 Selected verses from <i>Ramodanta (Kishkinda Kanda)</i> 5.2 Selected verses from <i>Ramodanta (Sundara kanda)</i> 5.2 Selected verses from <i>Ramodanta (Yuddha Kanda)</i>	K1-K5	10	1-5

TEXTBOOKS

Samskrta Pustika II (Compilation of Vyakarana & Ramodanta) prepared by Dr.R.Subasri, SMC, Chennai

BOOKS FOR REFERENCE

SamskrtaSri (Part 4-6)

Ramodanta(Sanskrit text with translation) <http://hinduebooks.blogspot.com>

Ramodanta, Samskrta Bhasa Pracarini Sabha, Chittoor, 2001

A Short History of Sanskrit Literature, by T.K.RamachandraAiyar, R.S.Vadhyar&Sons, Palghat, 2011.

History of Sanskrit Literature by A.A.Macdonell

Poems from the Sanskrit by John Brough, Penguin Publication,1977

WEBSITES

www.learn Sanskrit.org
www.sanskrit.samskrtam.com
<http://shastranethralaya.org>
www.forum.sastranethralaya.org
www.sanskritebooks.org
<https://grammarofsanskrit.wordpress.com>
<http://hinduebooks.blogspot.com>

PATTERN OF EVALUATION**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1	10 (10x1=10)	All questions are based on Vyakarana and Ramayana
B	K2&K3	20 (4x5=20)	Annotate & Explain fully translate from <i>Ramodanta</i> Authors & Works of Bhakti kavyas based on Ramayana
C	K4 &K5	20 (2x10=20)	History of Sanskrit Literature / <i>Ramodanta</i> / Grammar

Other Components:**Total Marks: 50**

MCQ Test on Vyakarana (K1) (10 Marks)
 Assignment on Ramayana Epic (K2-K3) (20 Marks)
 Recitation on *Ramodanta* (K4- K5) 20 Marks

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1&K2	20 (10x2=20) Any 10 to answer	All questions are to be based on Vyakarana and Khandakavyas – Devotional lyrics
B	K2&K3	40 (5x8=40) Any 5 to answer	Annotate & Explain fully translate from <i>Ramodanta</i> . History of Epic Literature- Ramayana History of Sanskrit Literature Bhakti kavyas
C	K4 &K5	40 (4X10=40) Any 4 to answer	Questions based on text <i>Ramodanta</i> Grammar – Declination & Conjugation of Nouns & Verbs (INTERNAL CHOICE)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SN/FC/RR23												
	Course Title: RAMODANTA & RAMAYANA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	3	1	1	1	1	3	2	2	2	1
CO 2	1	1	2	3	1	1	1	1	3	2	2	3	2
CO 3	2	2	3	2	2	2	3	1	3	2	2	3	3
CO 4	2	2	3	3	2	2	1	3	2	2	3	3	3
CO 5	1	2	1	2	2	1	1	2	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

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B.A. / B.Sc. / B.V.A. / B.S.W. DEGREE

FOUNDATION COURSE – SANSKRIT

SYLLABUS

Effective from the academic year 2019-2020

MAHABHARATA AND NALOPAKHYANAM

CODE: 23SN/FC/ MN33

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVE OF THE COURSE

- To remember the greatness of Classical Indian Epic- Mahabharata and to evaluate the influence of Epic Mahabharatam over other later Sanskrit Literature.
- To acquaint students to the usage of Sarvanama Shabdās & Upapadas

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand & illustrate Sarvanama sabdas (Personal Pronouns) in simple sentences List the historical importance of Indian Classical Epic – Mahabharatam.	K1, K2
CO2	classify the Upakhyanas of Sanskrit Mahakavyas- Nalopakhyanam of Mahabharata	K3
CO3	compare & Contrast the Indian Classical Epics- Mahabharata & Ramayana	K4
CO4	enumerate the Epic Mahabharata's influence to later Sanskrit Literature	K5
CO5	construct simple Sanskrit sentences using verbs in Imperative form and Potential mood	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Vyakarana 1.1 Declension of Personal pronouns (Sarvanama sabdas) and Interrogative Pronouns 1.2 Upapada vibhakti and usage 1.3 Conjugations of selected verbs in Imperative form and Potential mood 1.4 Sentences using Personal pronouns and Imperative forms of verbs etc 1.5 Simple Translation exercises	K1-K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Mahabharata 2.1 Introduction to Mahabharata 2.2 Stages of development of the Epic and Date of the Epic 2.3 Parvas/ Books of Mahabharata and Harivamsa 2.4 Influence of Mahabharata in later Sanskrit literary works	K1-K5	10	1-5
3	Nalopakhyanam 3.1 Nalopakhyanam Selected verses (Adhyaya 50 & 51)	K1-K5	10	1-5
4	Nalopakhyanam 4.1 Nalopakhyanam Selected verses (Adhyaya 52&53)	K1-K5	10	1-5
5	Nalopakhyanam 5.1 Nalopakhyanam Selected verses (Adhyaya 54)	K1-K5	10	1-5

TEXT BOOKS

Samskrta Pustika III (Compilation of Vyakarana & Nalopakhyanam) prepared by Dr.R.Subasri, Stella Maris College, Chennai

BOOKS FOR REFERENCE

SamskrtaSri (Part 4-6)

Nalopakhyanam, (Mahabharata Vana Parva, Chapters 50 to 54) by T.K.RamachandraAiyar, R.S.Vadhyar&Sons, Palghat, 2009.

Nalopakhyanam(Excerpts from Vyasa's Mahabharatam) Vanaparva (VI Chapter – 53 Section) *The Story of Nala*, Text with Translation by Sir Monier Williams, Oxford Clarendon Press, 1879

A Short History of Sanskrit Literature, by T.K.RamachandraAiyar, R.S.Vadhyar&Sons, Palghat, 2011.

WEBSITES

www.learnsanskrit.org

www.sanskrit.samkrtam.com

<http://shastranethralaya.org>

www.forum.shastranethralaya.org

www.sanskritebooks.org

<https://grammarofsanskrit.wordpress.com>

www.vedicbooks.com

PATTERN OF EVALUATION**Continuous Assessment:****Total Marks: 50****Duration: 90 Minutes**

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1	10 (10x1=10)	All questions are based on Vyakarana and Mahabharata
B	K2&K3	20 (4x5=20)	Annotate & Explain fully translate from <i>Nalopakhyanam</i> Authors & Works of Sanskrit literature based on Mahabharatam
C	K4 &K5	20 (2x10=20)	History of Sanskrit Literature / <i>Nalopakhyanam</i> / Grammar

Other Components:**Total Marks: 50**

MCQ Test on Vyakarana (K1) (10 Marks)

Assignment on Mahabharatam Epic (K2-K3) (20 Marks)

Recitation on *Nalopakhyanam* (K4- K5) 20 Marks**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1&K2	20 (10x2=20) Any 10 to answer	All questions are to be based on Vyakarana and Mahabharatam
B	K2&K3	40 (5x8=40) Any 5 to answer	Annotate & Explain fully translate from <i>Nalopakhyanam</i> . History of Epic Literature- Mahabharatam
C	K4 &K5	40 (4X10=40) Any 4 to answer	Questions based on text <i>Nalopakhyanam</i> Grammar – Declination & Conjugation of Nouns & Verbs (INTERNAL CHOICE)

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SN/FC/MN33												
	Course Title: MAHABHARATA & NALOPAKHYANA												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	3	1	1	1	1	3	2	2	2	1
CO 2	1	1	2	3	1	1	1	1	3	2	2	3	2
CO 3	2	2	3	2	2	2	3	1	3	2	2	3	3
CO 4	2	2	3	3	2	2	1	3	2	2	3	3	3
CO 5	1	2	1	2	2	1	1	2	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**B.A. / B.Sc. / B.S.W. DEGREE
FOUNDATION COURSE–SANSKRIT**

SYLLABUS

Effective from the academic year 2023-24

KARNABHARAM & ALANKARA

CODE: 23SN/FC/KA43

CREDITS: 3

L T P: 5 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable the students to appreciate the Sanskrit Natakas (Indian Theatre art) to understand figures of speech and its application in Sanskrit literature

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	understand the Indian Classical Theatre	K1, K2
CO2	identify the contribution of playwright Bhasa to Sanskrit dramas	K3
CO3	compare & contrast the influence of Sanskrit theatre over Greek theatre	K4
CO4	frame simple sentences using adjectives to translate Non-Textual Passages	K4
CO5	analyze and compare the charm of Figures of Speech in Sanskrit Literature and in other literature	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	VYAKARANA 1.1 Adjectives 1.2 Conjugation-IV and X type (selected roots) Present tense 1.3 Declension- 'r' ending Masculine nouns 1.4 Non-Textual Translations, 1.5 Prose order for Simple Verses 1.6 Simple Comprehension 1.7 Some Kathas for Translations 1.8 Framing Sentences using Masculine 'r' ending nouns 1.9 Framing sentences using Adjectives 1.10 Translation exercise using Present Tense verbs	K1-K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
2	DASARUPAKA 2.1 Introduction To Dramas, 2.2 Traditional and Secular Origin of Nataka and its Development, 2.3 Types of Sanskrit Dramas - Dasarupaka 2.4 Characteristics of Nataka, 2.5 Some Important Dramas of Sanskrit Literature 2.6 Allegorical Plays, 2.7 Bhasa's 13 Plays 2.7.1 Authorship and Divisions of Bhasa's Plays 2.7.2 Bhasa's dramas based on Ramayana 2.7.3 Bhasa's dramas based on Mahabharatam	K1-K5	12	1-5
3	KARNABHARAM 3.1 One Act Play – Bhasa's Karnabharam (1-10) 3.1.1 Mahabharata Parvas and related anecdotes on Karna	K1-K4	10	1-5
4	KARNABHARAM 4.1 One Act Play – Bhasa's Karnabharam (11-25)	K1-K4	10	1-5
5	ALANKARAS 5.1 Introduction to Alankaras from Candraloka 5.2 Upama, Rupaka 5.3 Svabhavokti , Ullekha 5.4 Vyatireka, Vyajastuti 5.5 Some examples from Kalidasa's works for selected Alankaras	K1-K5	8	1-5

TEXT BOOKS

Samskrita Pustika IV (Compilation of Vyakarana & Bhasa's Karnabharam) prepared by Dr.R.Subasri, SMC, Chennai

BOOKS FOR REFERENCE

SamskritaSri (Part 6-7)

Candraloka by Jayadeva

Kuvalayanandam, of AppayyaDikshita, R.S.Vadhyar & Sons, Palghat, 1992

Karnabharam of Bhasa, Bhasanatakachakram, CR.Devdhar, MLBD.

Bhasa Natakachakra Translations and Notes by A.C.Woolner.

A Short History of Sanskrit Literature, by T.K.RamachandraAiyar, R.S.Vadhyar & Sons, Palghat, 2011

WEBSITES

www.learnsanskrit.org

www.sanskrit.samkrtam.com

<http://shastranethralaya.org>

www.forum.shastranethralaya.org

www.sanskritebooks.org

<https://grammarofsanskrit.wordpress.com>

www.vedicbooks.com

PATTERN OF EVALUATION**Continuous Assessment:****Total Marks: 50****Duration: 90 Minutes**

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1	10 (10x1=10)	All questions are based on Vyakarana and Indian classical Natakas <i>Dasarupakas</i>
B	K2&K3	20 (4x5=20)	Annotate & Explain fully translate from Karnabharam Bhasa's drama based on classical epics Ramayana & Mahabharatam
C	K4 &K5	20 (2x10=20)	History of Sanskrit Drama Literature / <i>Karnabharam</i> / Grammar

Other Components:**Total Marks: 50**

MCQ Test on Vyakarana (K1) (10 Marks)

Assignment on Bhasa's 13 plays (K2-K3) (20 Marks)

Reading Drama *Karnabharam* (K4- K5) 20 Marks**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1&K2	20 (10x2=20) Any 10 to answer	All questions are based on Vyakarana and Indian classical Natakas <i>Dasarupakas</i>
B	K2&K3	40 (5x8=40) Any 5 to answer	Annotate & Explain fully translate from Karnabharam Bhasa's drama based on classical epics Ramayana & Mahabharatam
C	K4 &K5	40 (4X10=40) Any 4 to answer	Questions based on text <i>Karnabharam</i> Bhasa's Drama , Sanskrit playwrights Grammar – Declination & Conjugation of Nouns & Verbs (INTERNAL CHOICE)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SN/FC/KA43												
	Course Title: KARNABHARAM & ALANKARAS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	1	1	1	3	2	2	2	1
CO 2	2	2	3	2	1	1	1	1	3	2	2	3	2
CO 3	2	2	3	2	2	2	3	1	3	2	2	3	3
CO 4	2	2	3	3	2	2	1	3	2	2	3	3	3
CO 5	1	2	1	2	2	1	1	2	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE
GENERAL ELECTIVE- SANSKRIT**

SYLLABUS

Effective from the academic year 2023-24

SANSKRIT FOR BEGINNERS

CODE: 23SN/GE/SB22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- Practical applicability of the Language is encouraged
- Opportunity to speak the language fluently.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	listen & read Sanskrit language	K1
CO2	write & speak in Sanskrit language	K2
CO3	frame & translate simple sentences in Sanskrit Language	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	INTRODUCTION 1.1 Introduction to language Sanskrit 1.2 Introduction to Alphabets, Verbs, Nouns	K1	11	CO1
2	NOUNS & VERBS 2.1 Introducing two letter words 2.2 Three letter words 2.3 Samasa(compound words) 2.4 Tense and Moods 2.5 Noun declension 2.6 Sentence translations	K2	10	CO2
3	TRANSLATION 3.1 Exercises from unknown passages for translation.	K3	5	CO3

TEXT BOOKS

Spoken Sanskrit by Dr. S.S.Janaki , KSRI Publication, Chennai-600004

BOOKS FOR REFERENCE

Samskrta Sri (Series1-7), Samskrta Sri Publications, Bangalore, 2015
Samskrta Patamala (Series 1-7), R.S Vadyar & Sons, Phalghat
Sanskrit for Beginners, N.R. Publications, Chennai

WEBSITES

www.learnsanskrit.org
www.sanskrit.samkrtam.com

PATTERN OF EVALUATION**Continuous Assessment:****Total Marks: 25****Duration: 45 Minutes**

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1 & K2	15	Situational conversation
B	K3	10	Translation of a story

Other Components:**Total Marks: 25**

A presentation about themselves (10 Marks) (K1)

My favorite Location/Holiday trip etc (15 Marks) K2 & K3)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE
GENERAL ELECTIVE- SANSKRIT**

SYLLABUS

Effective from the academic year 2023-24

STRESS RELIEVING TECHNIQUES IN SANSKRIT LITERATURE

CODE: 23SN/GE/SR22

CREDITS: 2

LTP: 3 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVE OF THE COURSE

- To adapt Ayurveda methods of good health to suit the modern living
- To practice the simple steps prescribed in Sanskrit texts for stress management.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the causes of stress in Modern life style	K1
CO2	understand the healthy diet practices as prescribed in Ayurveda for healthy life	K2
CO3	apply de stress techniques themselves by following Ayurveda's advice on health and by practicing yoga	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	INTRODUCTION 1.1 Introduction 1.2 Modern life style 1.3 Causes of stress	K1	4	CO1
2	AYURVEDA AND HEALTH 2.1 Role of Mind in attaining physical, mental and spiritual health 2.2 Ayurvedic references on food (Vata, Pitta and Kapha) and control of stress 2.3 Mind control references from Bhagavad Gita and Upanishads. 2.4 Energy chakras and Yoga asanas.	K2	10	CO2
3	YOGA IN MANAGING STRESS 3.1 Practical sessions on Asanas and Pranayama to manage stress	K3	12	CO3

TEXTBOOK

Bhagavad Gita Shri Bhavans Publications
108 Upanishads Shri Bhavans Publications
Ayurveda for health

BOOKS FOR REFERENCE

David Frawley, (1999), *Yoga and Ayurveda*, MLBD, Delhi
Witz, Klaus.G (1993) , *The supreme Wisdom of the Upanishads*, MLBD, Delhi
Joshi Kireet (1993), *Bhagavad gita and Contemporary Crisis*, Nag publishers, Delhi

WEBSITES

www.indiaheritage.org
www.sanskritdocuments.org
www.vedpradip.com

PATTERN OF EVALUATION**Continuous Assessment:****Total Marks: 25****Duration: 45 Minutes**

SECTION	COGNITIVE LEVEL	MARKS	PATTERN
A	K1 –K3	25	25 Multiple choice questions on Ayurvedic diet, Yoga asanas etc

Other Components:**Total Marks: 25**

Yoga Asanas practical demo of Asanas (K2 & K3)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

FOUNDATION COURSE – TAMIL
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI- 600086

DEPARTMENT OF TAMIL

Kd;Diu

,uz;lhapuk; Mz;LfSf;F Nkyhd gz;ghl;Lj; njhlh;r;rpiaj; jd;dfj;Nj nfhz;L> jiy rpwe;J tpsq;fptUk; tho;tpay; ,yf;fpaNk jkpo; ,yf;fpak;. ,aw;ifNahL ,iae;J edpehfhpfkhf tho;e;j jkpo; kf;fspd; njhd;ikahd nkhop tsj;ijj; jkpo; ,yf;fpaq;fs; vLj;jpak;Gfpd;wd. jkpoh;fspd; ngUikkpF fyhr;rhu;j;jpw;F kpfg; nghpa rhd;whf tpsq;Fk; jkpo; ,yf;fpaq;fspd; nrOikiaj; jkpo;r;r%f tuyhw;iw khzth;fs; mwpe;Jnfhs;s Ntz;Lk; vd;w Nehf;fj;ij mbg;gilahff; nfhz;L ,sq;fiy khzth;fSf;fhdg; nghJj;jkpo; ghlj;jpl;l; tbtkf;fg;gl;Ls;sJ.

rq;f ,yf;fpaq;fspd; mfg;Gw tho;tpay;> fhg;gpa ,yf;fpaq;fspd; fUj;jpay;> ePjp E}y;fspd; mwnewp> gf;jp ,yf;fpaq;fspd; ,iwnewp> jw;fhyf; ftpijfspd; jdpj;jd;ikfs; Nghd;wtw;iw vLj;Jiuf;Fk; tifapYk; ghlj;jpl;l; mikf;fg;gl;Ls;sJ. rq;f ,yf;fpaq;fs; Kjy; jw;fhy ,yf;fpaq;fs; tiu jkpopyf;fpakhdJ> jkpo;g; gz;ghl;L> ehfhpf; #oYf;Nfw;g gy;NtW ,yf;fpa tifikfshfj; jioj;Njhq;fp te;Js;sij khzth;fs; mwpe;Jnfhs;Sk; tifapy; ,g;ghl;jjpl;l; mikfpd;wJ.

jkpo; ,yf;fpaq;fisf; fw;gjd; %ykhf tho;tpay; tpOkpaq;fis ed;F czh;e;J> mwnewpNahL tho;jy;> topf;fhl;Lk; jpwd;ngWjy;> gpioapd;wpg; NgRjy;> vOJjy;> gilg;ghw;wy; ngWjy;> nkhopngah;g;G nra;jy;> tpz;zg;gf;fbjk; vOJjy;> jpwdha;T nra;jy;> muRj; Njh;Tfspy; ntw;wp ngWjy;> ehlff;fiy kw;Wk; ehl;Lg;Gwf; fiyfs; Nghd;wtw;iwf; fw;wy; Nghd;wit ,g;ghl;jjpl;l;jpd; fw;wy; tpisTfshf mikfpd;wd

g;Skpd; tif gphpj;jy; Kiwapd;gb ,g;ghl;jjpl;l; fw;gpj;jy; kw;Wk; kjpg;gPl;L Kiwfs; Mfpatw;Wld; nghUj;jkhd mwpthw;wy; epiyfSld; mikf;fg;gl;Ls;sJ. mfkjpg;gPl;L Kiw kw;Wk; Gw kjpg;gPl;L Kiwfs; khzth;fspd; mwpthw;wiy kjpg;gpLtjw;Fk; kw;Wk; ghlnewp Kbit kjpg;gpLtjw;Fk; toptFf;fpd;wd.

DEPARTMENT OF TAMIL

VISION AND MISSION

Nehf;F - VISION

Expansion of the department to include inter-disciplinary and research programmes thereby honing leadership, organisational skills of students which eventually enhance their employability.

Nghf;F - MISSION

- To impart language proficiency and to facilitate the students of diverse socio, economic and cultural background to acquire linguistic and communicative skills.
- To kindle participatory learning methods through student-centred activities.
- To serve the student community with integrity and commitment through innovative and quality teaching.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO 1	Introduce the history of Tamil literature and Tamil literary forms.
PSO 2	Demonstrate the culture and tradition of Tamil society through Tamil literature.
PSO 3	Acquire knowledge pertaining to Tamil literary tradition and inculcate the values.
PSO 4	Develop the methods of communication, to improve their LSRW skills, to enable them to practice these skills in their daily life by identifying instances of communication in the circumstances of their own.
PSO 5	Exploring, analysing and enriching self-knowledge to nurture analytical qualities or skills, thinking power, creativity through assignments and project works.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086
B.A. / B.Sc. / B.Com. / B.B.A. / B.V.A. / B.C.A. / B.S.W. DEGREE PROGRAMME
FOUNDATION COURSE : TAMIL
COURSES OF STUDY
(Effective from the academic year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23TM/FC/KK13	Kavithai Katturai (ftpij fl;Liu)	3	3	1	0	3	50	50	100	
SEMESTER-II										
23TM/FC/AB23	Arramum Bakthiyum (mwKk;;; gf;jpAk;)	3	3	1	0	3	50	50	100	
SEMESTER-III										
23TM/FC/KI33	Kappiya Ilakkiyam (fhg;gpa ,yf;fpak;)	3	3	1	0	3	50	50	100	
SEMESTER-IV										
23TM/FC/SI43	Sanga Ilakkiyam (rq;f ,yf;fpak;)	3	3	1	0	3	50	50	100	
GENERAL ELECTIVE COURSES										
23TM/GE/NK22	Nattupurakkalai (ehl;Lg;Gwf;fiy)	2	2	0	0	-	50	-	100	
23TM/GE/PI22	Padaippilakkiyam (gilg;gpyf;fpak;)	2	2	0	0	-	50	-	100	
23TM/GE/PT22	Potti Thervu Tamil (Nghl;b; Nju;T jkpo;)	2	2	0	0	-	50	-	100	
23TM/GE/NT22	Nadaga Tamil (ehl;f; jkpo;)	2	2	0	0	-	50	-	100	
23TM/GE/MP22	Medaipechu (Nkilg; Ngr;R)	2	2	0	0	-	50	-	100	
23TM/GE/BT22	Basic Tamil-I (mbg;gilj; jkpo; - I)	2	2	0	0	-	50	-	100	
23TM/GE/AT22	Advanced Tamil-I (tsh;epiyj; jkpo;; - I)	2	2	0	0	-	50	-	100	
23TM/GE/BT32	Basic Tamil-II (mbg;gilj; jkpo; - II)	2	2	0	0	-	50	-	100	
23TM/GE/AT32	Advanced Tamil-II (tsh;epiyj; jkpo;; - II)	2	2	0	0	-	50	-	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.A. / B.Sc. / B.V.A. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

FOUNDATION COURSE – TAMIL

KAVITHAI KATTURAI (ftpij fl;Liu)

nra;As;> ,yf;fpa tuyhW> fl;Liu> gilg;gpyf;fpak;

CODE : 23TM/FC/KK13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS:52

jhspd; Nehf;fk;:

- jkpo;f; ftpijapd; Njhw;wk; kw;Wk; tsu;r;rp Fwpj;J mwpKfk; nra;jy;
- ftpijfs; %yk; khzth;fSf;Fr; rkfhyr; r%fr; rpe;jidfis ntspg;gLj;Jjy;.
- nra;As; gFjpapy; ,lk;ngWk; Mrpupau;fspd; tuyhw;wpid mwpar;nra;jy;.
- rhd;Nwhu; tho;tpay; epfo;Tfs; top khztu; jk; MSikapid cUthf;Fjy;.
- ftpijfs; kw;Wk; rpWfijfisg; gilf;Fk; Mw;wiw tsh;j;jy;;.

jhspd; gad;fs;

COs	DESCRIPTION	CL
CO1	GJf;ftpijapd; Njhw;wk; kw;Wk; tsu;r;rpapid mwpjy;	K1
CO2	etPdf; ftpQu;fs; kw;Wk; ghlyhrpupau;fspd; ftpijfspd; top rkfhyf; ftpijfspd; Nghf;fpidg; Gupe;J nfhs;Sjy;	K2
CO3	yf;fpa MSikfspd; jdpj;jd;ikfis czur; nra;J jw;fhyf; ftpijfis kjpg;gPL nra;jy;	K4
CO4	rhd;Nwhh; tho;tpay; fl;Liufspd; top kdpj tho;f;ifapd; tpOkpaq;fis czur;nra;jy;	K3
CO5	GJf;ftpij kw;Wk; rpWfijfisg; gilf;Fk;; gilg;ghw;wiy tsu;j;jy;.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 kNdhd;kzpak; Re;judhh; 1.1.1. jkpo;j;jha; tho;j;J	K1-K3	14	1 -3
	1.2 kfhtp ghujpahh; 1.2.1 jkpo; 1.2.2 Gjpa Mj;jp#b (mr;rk; jtph; - nrshpak; jtNwy;)	K1-K3 K1-K3		
	1.3 ghNte;jh; ghujpjhrd; - mofpd; rphpg;G 1.3.1 Fuq;fpd; mr;rk; 1.3.2 gwitA+Q;ry; 1.3.3 Fapy; tpUe;J	K1-K3		
	1.4 ftpQh; ftpkzp Njrpf tpehafk; gps;is 1.4.1. ngz;fspd; chpik 1.4.2. cly; eyk; Ngzy;	K1-K3 K1-K3		
	1.5 ftpQh; gl;Lf;Nfhl;il fy;ahz Re;juk; 1.5.1. ciog;Gk; Njit 1.5.2. gl;lhilfs; kiwf;FJ	K1-K3		
	1.6 ftpQh; ehkf;fy; nt. ,uhkypq;fk; 1.6.1 Gj;jhz;L tzf;fk;			

UNIT	CONTENT	CL	HRS	CO
2	<p>2.1 ftpQh; ituKj;J 2.1.1 kuk;</p> <p>2.2 ftpQh; Kidth; ,sir Re;juk; 2.2.1 neUg;G</p> <p>2.3 ftpQh; m. ntz;zpyh 2.3.1. Foe;ij 2.3.2. Gd;dif 2.3.3. ftpij MSik</p> <p>2.4 ehl;Lg;Gwg; ghly;fs; 2.4.1. itak;gl;b Kj;Jr;rhkp – itak;gl;b Kj;Jr;rhkp ghly;fs;</p>	<p>K1-K3</p> <p>K1-K3</p> <p>K1-K3</p> <p>K1-K3</p>	12	1-3
2	<p>2.5 jpiuapirg; ghly;fs;> ftpijfs; 2.5.1 ftpQh; fz;zjhrd; - kaf;fkh? fyf;fkh?</p> <p>2.5.2 fz;zjhrd; ftpij - ‘mtd;jhd; ,iwtd;’(%d;whk; njhFjp)</p> <p>2.5.3 ftpQu; thyp- fz;Nghd Nghf;fpNy....</p> <p>2.5.4 ftpQu; thyp ftpij - NgRk; ehTk; NgdhTk;...</p> <p>2.5.5 ftpQh; eh.Kj;Jf;Fkhh; - Mde;jahio kPl;Lfpwha;.....> moNf moF...</p> <p>2.5.6 eh.Kj;Jf;Fkhh; ftpijfs; - tho;f;if> capy;> Fl;b Gj;jhpd; Nfhgk;> cs;Sk; GwKk;> epy; ftdp nry;</p> <p>2.5.7 ftpQh; gh.tp[a; -xt;nthU G+f;fSNk....</p>	<p>K1-K4</p> <p>K1-K4</p> <p>K1-K4</p> <p>K1-K4</p> <p>K1-K4</p>		1-4

UNIT	CONTENT	CL	HRS	CO
	2.5.8 ftpQh; gh.tp[a; - cile;j epyhf;fs; epoy; NjlhNj			
3	,yf;fpa tuyhW – ghlk; jOtpaJ	K2	8	1 -2
4	ciueil– ‘NkNyhh; tho;tpy; 100 Nkd;ikahd rk;gtq;fs;’ - e. ,uh[huhk; (2016) – Njh;e;njLf;fg;gl;l 25 Nkd;ikahd rk;gtq;fs;	K4, K5	10	4 -5
5	5.1 gilg;gpyf;fpak; gilj;jy; 5.1.1. Gjftpij gilj;jy; 5.1.2. rpWfij gilj;jy;	K3-K5	6	3 -5

ghl E}y; - ftpij fl;Liu – jkpo;j;Jiw ntspaPL

ghh;it E}y;fs;

1. ‘Mjpapy; nrhw;fs; ,Ue;jd’
ftpQh; m.ntz;zpyh>
Kjw;gjpg;G> 2002>
kjp epiyak; nrd;id.
2. ‘ghNte;jh; ghujpjhrd; ftpijfs’;
mz;zhkiy. mo(gjp.)>
mgpuhkp gjpg;gfk; (2003)>
nrd;id.
3. ‘kfhtp ghujpahh; ftpijfs;’
,uhkehjd; tpfU(gjp.)>
,e;J gjpg;gfk; (2007)>
nrd;id.
4. ‘,Ugjhk; E}w;whz;Lj; jkpo; ftpQh;fs;; Njrpag; ghh;it’
Kidth;. ,. Mh; ,utpr;re;jpud;>
Kjw; gjpg;G (2013)>
fhh;Kfpy; gjpg;gfk;>
jpUr;rp.
5. ftpQh; ituKj;J - jz;zPh;; Njrk;>
jpUkfs; gjpg;gfk;> (2014)>
nrd;id.
6. ‘ehkf;fy; ftpQh;g; ghly;fs;|- ,uhkypq;fk; gps;is
epa+ nrQ;Rhp Gf; `T];>
mk;gj;J}h>;
nrd;id.

7. ‘mz;ik fhyf; ftpijj; njhFg;Gfs; (tuyhWk; tpkh;rdKk;)’
r.KUNfrg;ghz;bad; ntspaPL - ghujp Gj;jfhyak;>
kJiu.
8. ‘ftpkzp Njrpa tpehafk; gps;isapd; ftpijfs;|>
njhFg;G – Kidth; =Fkhh;>
Kjw;gjpg;G 2016>
rhfpj;a mfhjkg ntspaPL>
nrd;id.
9. ‘ftpijapd; Njhw;wKk; tsh;r;rpAk;’>
Kidth; Qhdk;>
gjpg;G- 2017.
rhujh gjpg;gfk;
nrd;id
10. ‘tpbaypd; ntsp;rk; ftpijfs;’ - ftpQh; Kidth; ,sir Re;juk;>
Kjw; gjpg;G- 2017>
Gfo; gjpg;gfk;>
KJiu.
11. ‘fz;zjhrd; ftpijfs;’ (%d;whk; njhFjp) – ftpQh; fz;zjhrd;>
15 Mk; gjpg;G – nrg;lk;gh; 2002>
thdjp gjpg;gfk;>
nrd;id.
12. ‘eh.Kj;Jf;Fkhh; ftpijfs;’ - ftpQh; eh.Kj;Jf;Fkhh;>
Kjw;gjpg;G – 2016>
gl;lhk;G+r;rp gjpg;gfk;>
nrd;id.
13. ‘cile;j epyhf;fs;’ - ftpQh; gh.tp[a;>
11-MtJ gjpg;G – 2015>

Fkud; gjpg;gfk;>
nrd;id.

14. 'mk;kh' – ftpQh; thyp
NgRk; ehTk; NgdhTk;>
Kjw; gjpg;G (2013)>
thyp gjpg;gfk;>
nrd;id.

ghu;it ,jo;fs;

1. cq;fs; E}yfk;;>
2. capu;ik>
3. fhyr;RtL>
4. GJg;Gdy;
5. fy;Fjpiu
6. vOj;J

Continuous Assessment Test Total Marks:50 Duration: 1 ½ hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1, K2	20
B	nra;As; tpdhf;fs;	K3	20
C	,yf;fpa tuyhW	K4	5
D	gilg;gpyf;fpak;	K5	5

End Semester Examination Total Marks:100 Duration:3hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS(100)
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A	midj;J tpdhf;fSf;Fk; tpilasp> rhpahd tpiliaj; Njh;e;njLj;J vOJf	K1	20
B	FWtpdhf;fs;> ,lk; Rl;bg; nghUs; tpsf;fk; jUf.	K2	20
C	nra;As; tpdh	K3	30
D	ciueil – fl;Liu> ,yf;fpa tuyhW	K4	20
E	GJf;ftpij> rpWfij vOJjy;	K5	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TM/FC/KK13												
I	Course Title: Kavithai Katturai												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	1	1	1	1	1	1	2	2	1	1	2
CO 2	2	2	2	2	2	2	2	1	2	2	2	1	2
CO 3	1	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	2	2	2	2	1	2	2	2	1	1	2	1	1
CO 5	1	2	1	2	2	2	2	1	1	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (Autonomous), CHENNAI – 600 086

B.A / B.Sc / B.Com / B.C.A /B.V.A / B.S.W. DEGREE COURSE

SYLLABUS

(Effective from the academic year 2023 -2024)

FOUNDATION COURSE – TAMIL

ARRAMUM BAKTHIYUM mwKk; gf;jpAk;

,uz;lhk; gUtk; (ghlj;jpl;lk;)

nra;As;> ,yf;fpa tuyhW> rpWfij> nghJf;fl;Liu> fiyr;nrhw;fs;

CODE : 23TM/FC/AB23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

jhsdpd; Nehf;fk;:

- **mwk; kw;Wk; gf;jp ,yf;fpaq;fis mwpKfg;gLj;Jjy;.**
- **mwk; kw;Wk; gf;jp ,yf;fpaq;fspd;top ed;ndwpfisAk;> gf;jp
newpfisAk; czh;j;Jjy;.**
- **jw;fhyr; rpWfijfspd; cs;slf;fk;> Nehf;F> Nghf;F> cj;jpfis mwpar;
nra;J mtw;wpd; %yk; r%f elg;gpay; vt;thW gpujpgypf;fg;gLfpd;wJ
vd;gij czh;j;jpj; jpwdha;T nra;jy;.**
- **fhyj;jpd; Njitf;Nfw;g jkpopy; cUthf;fg;gLk; Gjpa fiyr;nrhw;fis
mwpKfg;gLj;Jjy;.**
- **rpe;jidj;jpwid tsh;f;Fk; tifapy; nghJf;fl;Liufs; gilf;f gapw;rp
mspj;jy;.**

jhspd; gad;fs;

COs	DESCRIPTION	CL
CO1	mwk; kw;Wk; gf;jp ,yf;fpaq;fspd; tuyhw;wpid mwpjy;.	K1
CO2	mwk; kw;Wk; gf;jp ,yf;fpaq;fspd; top ed;ndwpfisAk;> gf;jp newpfisAk; czh;jy;.	K2
CO3	fhyj;jpd; Njitf;Nfw;g jkpopy; cUthf;fg;gLk; Gjpa fiyr;nrehw;fisg; gad;gLj;Jjy;.	K3
CO4	jw;fhyr; rpWfijfspd; cs;slf;fk;> Nehf;F> Nghf;F> cj;jpfis mwpar; nra;J mtw;wpd; %yk; rkfhy tho;tpaypd; vjhh;j;jj;ij kjpg;gPL nra;jy;.	K4
CO5	rpe;jidj; jpwid tsh;f;Fk; tifapy; nghJf;fl;Liufs; gilj;jy;.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	<p>1.1. jpUf;Fws; 1.1.1.nka;Azh;jy; - (mwj;Jg;ghy;) mjpgfhuk; 36 1.1.2 ngUik - (nghUl;ghy;) mjpgfhuk; 98</p> <p>1.2. Vyhjp 1.2.1. ,lh;jPh;j;jy;> vs;shik.. - ghly; 4 1.2.2. fw;whiuf; fw;wJ.. - ghly; 9 1.2.3. m/F> eP> nra;ay;.. - ghly; 27 1.2.4. mog;NghfhD;> mQ;rhD;. - ghly; 37 1.2.5. ,y;,oe;jhh;> fz;,oe;jhh;.. - ghly; 52 1.2.6. rhf;fhL> NfL> gif.. - ghly; 79</p> <p>1.3 ,dpait ehw;gJ 1.3.1. mjh; nrd;W thohik... - ghly; 11 1.3.2 gpwd;ifg; nghUs;.. - ghly; 21 1.3.3. mt;tpj;J mOf;fhW.. - ghly; 36 1.3.4. gpr;ir Gf;F cz;ghd;.. - ghly; 39 1.3.5. gj;Jf; nfhLj;Jk; - ghly; 40</p>	<p>K1-K3</p> <p>K1-K3</p> <p>K1-K3</p>	12	1 – 3

2	<p>2.1. gonkhop ehD}W</p> <p>2.1.1. Gyk; kpf;ftiug; Gyik..</p> <p>- ghly; 8</p> <p>2.1.2 nflTy; vdg;gl;l..</p> <p>- ghly; 40</p> <p>2.1.3. xw;fk; jhk; cw;w...</p> <p>- ghly; 71</p> <p>2.1.4. mfk; J}a;ik ,y;yhiu..</p> <p>ghly; 176</p> <p>2.1.5. jk; Fw;wk; ePf;fth;.. -</p> <p>ghly; 39</p> <p>2.1.6 je;jPik apy;yhjhh;.. .</p> <p>- ghly; 133</p> <p>2.2. %Jiu</p> <p>2.2.1. ed;wp xUth;f;F..</p> <p>- ghly; 1</p> <p>2.2.2 ml;lhYk; ghy; Ritapy;..</p> <p>- ghly; 4</p> <p>2.2.3. ney;Yf;F ,iwj;j ePh;..</p> <p>- ghly; 10</p> <p>2.2.4. fhd kapy; Ml...</p> <p>- ghly; 14</p> <p>2.2.5. mlf;fk; cilahh;...</p> <p>- ghly; 16</p> <p>2.3. mwnewpr;rhuk;</p> <p>2.3.1. nka;k;ik>nghiWailik..</p> <p>- ghly; 12</p> <p>2.3.2. ,d;Ws;Nshh; ,d;NwAk;.. -</p> <p>ghly; 20</p> <p>2.3.3. xU ehSk; ePjhpaha;... -</p> <p>ghly; 36</p> <p>2.3.4. mwpTilik kPf;\$w;wk;.. -</p> <p>ghly; 65</p>	<p>K1-K3</p> <p>K1-K3</p> <p>K1-K3</p>	12	1 -3
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	2.3.5. gyfw;Nwhk; ahnkd;W... - ghly; 79 2.3.6. vs;spg; gpwh; ciuf;Fk;.. - ghly; 82			
3	3.1. jpUehTf;furh; Njthuk; ehkhh;f;Fk; Fbay;Nyhk; - (5 ghly;fs;) 3.2. Mz;lhs; - ehyhapu jpt;tpa gpuge;jk; thuzk; Mapuk; 3.3. ftpQh; ,. Fw;whyk; gps;is ,NaRejh; gps;isj;jkpo; tUifg; gUtk; - (3 ghly;fs;) mk;Gyp gUtk; - (3 ghly;fs;) 3.4. Fzq;Fb k];jhd; rhfpG guhguf;fz;zp (10 fz;zpfs;)	K1–K3	12	1 - 3
4	gj;J rpWfijfs; njhFg;G (jkpo;j;Jiw ntspaPL)	K4	10	4
5	fiyr;nrehw;fs; kw;Wk; nghJf;fl;Liu	K3, K5	6	3, 5

ghl E}y; - mwKk; gf;jpAk; - jkpo;j;Jiw ntspaPL>];nly;yh khhp];
fy;Y}hp> nrd;id

ghh;it E}y;fs;

1. ~Gjpa Nehf;fpy; jkpo; ,yf;fpa tuyhW |
jkpoz;zy;>
kPdhl;rp Gj;jf epiyak;>
kJiu.
(2015> 33 -Mk; gjpg;G)

2. ~Gjpa ghh;itapy; gjpndz;fPo;f;fzf;F |
f.g. mwthzd;>
jkpo;f; Nfhl;lk; gjpg;gfk;>
nrd;id (2010).

3. ~thrd; jkpo; ePjpr;nry;tk;|

Gyth; r. rPdpthrd;> tpj;Jthd; eh. godpag;gd; (c.>M)>

rhe;jh gg;sp;ru;];>

nrd;id>

(1995)>

4. ~ehyhapu jpt;tpag; gpuge;jk;|

(xd;gJ njhFjpf;)>

fkyf;fz;z d; ,uh. t. (c.M.>)>

th;j;jkhdd; gjpg;gfk;>

nrd;id.

5. ~gonkhop ehD}W|

,uhrkhzpf;fk; gps;is k.> (c.M.>)>

irtrpj;jhe;j E}w;gjpg;Gf;fofk;>

Mo;thh;Ngl;il>

nrd;id>

(2007).

6. ~jpUehTf;fuR Rthkpfs; Njthuk;|

,uhkRg;gpukzpak; t.j.> (c. M.>)>

th;j;jkhdd; gjpg;gfk;>

jpahfuha efh>;

nrd;id>

(1998).

7. ~jpUf;Fws;|

tujhrdhh;> K.> (c.M.>)>

irt rpj;jhe;j E}w;gjpg;Gf; fofk>;

nrd;id (2000).

8. ~,d;dh ehw;gJ|>

ehthy; Ntq;flrhkp ehl;ltuth;fs; th.e.K.> (c.>M)>

jpUney;Ntyp> njd;dpe;jpa irt rpj;jhe;j E}w;gjjpg;Gf; fofk;>

Mo;thh;Ngl;il>

nrd;id (2007)>

9. ~Vyhjp|>

jpU. ghyRe;juk; jp.R. (c.>M)>

jpUney;Ntyp> njd;dpe;jpa irt rpj;jhe;j E}w;gjjpg;Gf; fofk;>

Mo;thh;Ngl;il>

nrd;id (2007).

10. ~Fzq;Fb k];jhd; rhfpG ghly;fs;| (ghl;Lk;> ciuAk;)>

kh. tbNty; Kjypahh;>

ghhp epiyak>;

nrd;id.

11. ~ePjp E}y; fsQ;rpak;|

ftpQh; gj;kNjtd;> jkpo;g;gphpad; (c.>M)

nfhw;wit ntspaPL

jpahfuhah; efh;

nrd;id.

(2018)

12. ~VRejh; gps;isj;jkpo;|>

ftpQh; ,. Fw;whyk; gps;is>

md;G epiyak>;

ehfh;Nfhtpy;>
(1994).

ghu;it ,jo;fs;

1. cq;fs; E}yfk;

2. capu;ik

3. fhyr;RtL

4. GJg;Gdy;

5. fy;Fjpiu

6. vOj;J

Continuous Assessment Test Total Marks: 50 Duration: 1 ½ hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1, K2	20
B	nra;As; tpdhf;fs;	K3	20
C	,yf;fpa tuyhW	K4	5
D	fiyr;nrhw;fs;> nghJf;fl;Liu	K3, K5	5

End Semester Examination Total Marks: 100

Duration: 3 Hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS(100)
A	midj;J tpdhf;fSf;Fk; tpilasp> Nfhbl;l,lq;fis epug;Gf> fPo;f;fhZk; \$w;W rhpah? jtw h?	K1	20
B	FWtpdhf;fs;> ,lk; Rl;bg; nghUs; tpsf;fk; jUf.	K2	20
C	nra;As; tpdh	K3	30
D	rpWfij jpwdha;T> ,yf;fpa tuyhW	K4	20
E	ng hJf;fl;Liu> fiyr;n rhw;fs;	K5, K3	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TM/FC/AB23												
II	Course Title: Arramum Bakthiyum												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	1	1	1	1	1	1	1	3	2	2	1	1
CO 2	1	2	2	1	2	1	2	2	2	3	3	1	2
CO 3	1	2	2	2	2	2	2	1	1	1	2	2	2
CO 4	1	2	1	2	2	2	2	2	2	2	2	2	2
CO 5	2	3	2	2	2	2	2	2	1	1	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (Autonomous), CHENNAI-600086
B.A. / B.Sc. / B.V.A. / B.S.W. DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 Onwards)

FOUNDATION COURSE – TAMIL
KAPPIYA ILAKKIYAM fhg;gpa ,yf;fpak;
(nra;As;, ,yf;fpa tuyhW, ehty;, nkhopngah;g;G> E}y; kjpg;Giu)

CODE : 23TM/FC/KI33

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

jhspd; Nehf;fk;:

- jkpo;f; fhg;gpaq;fs; Fwpj;j mwpKfk;> fhg;gpa ,yf;fz tiuawfis mwpKfk; nra;jy;.
- fhg;gpaq;fspd; top jkpoh; gz;ghl;L tuyhw;wpid mwpar;nra;jy;.
- fhg;gpa ,yf;fpa tuyhw;wpd; top fhg;gpq;fspd; jdpj;jd;ikia czur;nra;jy;.
- rkfh y ehtypd; top r%fj;jpd; ,ay;gpIdAk;> kdpj tho;f;ifapd; kjpg;gPLfisAk; Muha;jy;.
- jw;fh y r; #oYf;F Vw;g nkhopngau;g;G kw;Wk; E}y; kjpg;Giuapd; top nkhopg; gapw;rpiaAk; nkhop MSikiaAk; tsur;nra;jy;.

jhspd; gad;fs;

COs	DESCRIPTION	CL
CO1	fhg;gpafhy khe;ju;fspd; tho;tpay; newpfis mwpjy;	K1
CO2	fhg;gpaf; fijfspd;top gf;jpnewpapd; gd;Kfj;jd;ikiag; Gupe;Jnfhs;Sjy;	K2
CO3	fhg;gpa Mrpupau;fspd; tuyhw;wpid mwpjy;	K3
CO4	ehly;top r%f elg;gpaiy vLj;Jf;fhl;b tpopg;Gzh;T ngWjy;	K4
CO5	Mq;fpyj;jpypUe;J jkpopy; nkhopngau;g;G nra;Ak; Mw;wiy tsu;j;jy;.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1. rpyg;gjpfhuk; - kq;fy tho;j;Jg; ghly; (23- 68 tupfs;) 1.2. kzpNkfiy - cjaFkhuid thshy; vwpe;j fhij(1-38 thpfs;) 1.3. rPt f rpe;jhkzp – rPtfd; gpwg;G (10 ghly;fs;) 1.4. fk;guhkhazk; - Ffg; glyk; (15 ghly;fs;)	K1-K3	14	1 -3

UNIT	CONTENT	CL	HRS	CO
2	2.1. jpUj;njhz;lh; Guhzk; – nts;shidr; rUf;fk; (10 ghly;fs;) 2.2;. rPwhg;Guhzk; - khDf;Fg; gpiz epd;w glyk; glyk; (10 ghly;fs;) 2.4. ,ul;rz;a ahj;jpupfk; - ,ul;rz;a rupjg; glyk; (10 - ghly;fs;) 2.5. jpUj;njhz;lu; fhg;gpak; - eP&w;Wg; glyk; (15 ghly;fs;)	K1-K3	14	1 -3
3	,yf;fpa tuyhW – ghlk; jOtpaJ	K3	8	3
4	ehty; - Gj;jk; tPL (n`g;)pgh N[Rjhrd;);	K4	10	4
5	nkhopngah;g;G – gj;jp nkhopngah;g;G (Mq;fpyj;jpypUe;J jkpopy;) E}y; kjpg;Giu	K4, K5	6	4,5

ghIE}y;

fhg;gpa ,yf;fpak; - jkpo;j;Jiw ntspaPL

ghh;it E}y;fs;:

- rpyg;gjpfhuk;> mbahh;f;F ey;yhh; ciu
- kzpNkfiy> fof ntspaPL> nrd;id.
- rPtfrpe;jhkzp> fof ntspaPL> nrd;id
- fhg;gpa Nehf;fpy; fk;guhkhazk;> Kidtu;.m. ghz;Luq;fd;>
- epA+ nrQ;Rup Gf; `T];> nrd;id>2007
- jpUj;njhz;lu; Guhzk;> Nrf;fpohu;> jpUg;gde;jhs; = fhrpklk; ntspaPL> 1950
- fhg;gpanewp> jpUkh>jpahfuhrh gjpg;gfk;> fhiuf;Fb> 2002.
- Gjpa Nehf;fpy; jkpo; ,yf;fpa tuyhW> jkpoz;zy;> kPdhl;rp Gj;jf epiyak;> kJiu> 2015.

Continuous Assessment Test**Total Marks: 50****Duration: 1 ½ hours**

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1, K2	20
B	nra;As; tpdhf;fs;	K3	20
C	,yf;fpa tuyhW	K3	5
D	E}y;kjpg;Giu nkhopngau;g;G	K4, K5	5

End Semester Examination**Total Marks: 100****Duration: 3 Hours**

SECTION	QUESTION PAPER PATTERN	CL	MARKS (100)
A	midj;J tpdhf;fSf;Fk; tpilasp> rhpahd tpiliaj; Njh;e;njLj;J vOJf	K1	20
B	FWtpdhf;fs;> ,lk; Rl;bg; nghUs; tpsf;fk; jUf.	K2	20
C	nra;As; tpdh	K3	30
D	,yf;fpa tuyhW> ehty;	K3, K4	20
E	nkhopngah;g;G - gj;jp nkhopngah;g;G (Mq;fpyj;jpypUe;J jkpopy;) E}y; kjpg;Giu	K4, K5	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TM/FC/KI33												
III	Course Title: Kappiya Ilakkiyam												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	1	1	2	1	2	2	1	3	3	1	2
CO 2	1	2	2	1	2	1	2	2	2	3	3	1	2
CO 3	1	1	1	1	1	1	1	1	3	2	1	1	1
CO 4	2	2	2	1	2	2	2	2	2	2	2	1	3
CO 5	2	2	2	2	2	2	2	1	1	1	1	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS),CHENNAI-600086

B.A. / B.Sc. / B.S.W. DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

FOUNDATION COURSE – TAMIL

SANGA ILAKKIYAM ரு;f ,yf;fpak;

செய்யுள், இலக்கிய வரலாறு, நாடகம், கடிதம், விளம்பரம்

CODE: 23TM/FC/SI43

CREDITS:3

L T P : 3 1 0

TOTAL TEACHING HOURS:52

தாளின் நோக்கம்:

- சங்க இலக்கியங்களின் சிறப்பு- எட்டுத்தொகை> பத்துப்பாட்டு நூல்களின் வழி சங்ககால மக்களின் பண்பாட்டினை உணர்த்துதல்.
- பாடந்தழுவிய இலக்கிய வரலாற்றினை அறிமுகம் செய்தல்.
- நாடகத் தமிழின் சிறப்பினை உணர்த்தி> இலக்கிய நாடகத்தின் வழி சங்ககால வாழ்வினை அறியச் செய்தல்.
- சமூக ஊடக வளர்ச்சியால் மறைந்துபோன கடிதம் எழுதும் முறையைக் கண்டறியச் செய்தல்.
- விளம்பர அறம் மற்றும் மீட; உத்திகளை உணர்த்தி விளம்பரம் தயாரிக்கச் செய்தல்.

தாளின் பயன்கள்

COs	DESCRIPTION	CL
CO1	சங்க இலக்கியத்தின் சிறப்பினை அறிதல்	K1
CO2	சங்க இலக்கியம் காட்டும் வரலாற்றுச் செய்திகள் மற்றும் வாழ்வியல் கூறுகளைப் புரிந்து கொள்ளுதல்.	K2
CO3	சங்க இலக்கிய நூல்களின்வழி தமிழ்ப் பண்பாட்டு வரலாற்றினை அறிதல்.	K3
CO4	நாடகத்தின் வழி சங்ககால மக்களின் வாழ்வினை அறிதல்.	K4
CO5	கடிதம் எழுதும் முறையினை அறிதல்> விளம்பரம் தயாரித்தல்.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 .குறுந்தொகை 1.1.1. மருதம் பாடல் - 31 1.1.2. குறிஞ்சி பாடல் - 54 1.1.3. பாலை பாடல் - 135 1.1.4. குறிஞ்சி பாடல் - 201 1.1.5. நெய்தல் பாடல் - 306 1.2. ஐங்குறுநூறு 1.2.1. வெள்ளாங்குருகு பத்து - 152 1.2.2. அன்னாய் வாழி பத்து - 208 1.2.3. மஞ்ஞை பத்து - 294 1.2.4. மக்கட் போக்கிய பத்து - 371 1.2.5. தோழி வற்புறுத்த பத்து - 469 1.3. அகநானூறு 1.3.1. நெய்தல் பாடல் - 80 1.3.2. பாலை பாடல் - 275 1.3.3. நெய்தல் பாடல் - 280 1.4. புறநானூறு 1.4.1. வஞ்சி திணை - 46 1.4.2. தும்பை திணை - 87 1.4.3. பாடாண் திணை - 139	K1-K3	14	1 -3

UNIT	CONTENT	CL	HRS	CO
	1.4.4. பாடாண் திணை - 163 1.4.5. பொதுவியல் திணை - 183 1.4.6. பொதுவியல் திணை - 214			
2	2.1. பொருநர் ஆற்றுப்படை - பா. அடிகள் 130 - 158 2.2. மதுரைக் காஞ்சி - பா. அடிகள் 197-209> 715-724 2.3. குறிஞ்சிப்பாட்டு - பா. அடிகள் 1 - 34 2.4. பட்டினப்பாலை - பா. அடிகள் 116 -135> 206 –220	K1-K3	14	1 - 3
3	இலக்கிய வரலாறு பாடம் தழுவியது.	K3-K4	8	3 - 4
4	1.நாடகம் – பாரி மகளிர் ஆசிரியர் சரளா இராஜகோபாலன்	K4	10	4
5	5.1. கடிதம் எழுதுதல் 5.2. விளம்பரம் தயாரித்தல்.	K5	6	1 - 5

பாட நூல்: சங்க இலக்கியம் - தமிழ்த்துறை வெளியீடு

பார்வை நூல்கள்:

- இராமரத்தினம்> குறுந்தொகை> கங்கை புத்தக நிலையம்> சென்னை> முதல் பதிப்பு (2002)
- புலியூர்க்கேசிகன் நற்றிணை> கங்கை புத்தக நிலையம்> சென்னை> முதல் பதிப்பு (2010)
- நற்றிணை> கங்கை புத்தக நிலையம்> சென்னை> முதல் பதிப்பு (2010)
- புலியூர்க்கேசிகன்> ஐங்குறுநூறு> கங்கை புத்தக நிலையம்> சென்னை> முதல் பதிப்பு (2010)
- புலியூர்க்கேசிகன் > புறநானூறு> கங்கை புத்தக நிலையம்> சென்னை> முதல் பதிப்பு (2010)
- ச.வே.சுப்பிரமணியன்> பத்துப்பாட்டு> மணிவாசகர் பதிப்பகம்> சென்னை> இரண்டாம் பதிப்பு. (2010)
- தமிழண்ணல்> புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு> மீனாட்சி புத்தக நிலையம்> மதுரை> 33 ஆம் பதிப்பு. (2015)

- சரளா இராஜகோபாலன்> பாரி மகளிர்> ஒளிப் பதிப்பகம்> சென்னை> முதல் பதிப்பு> 2005.

Continuous Assessment Test Total Marks: 50 Duration: 1 ½ hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
A	அனைத்து வினாக்களுக்கும் விடையளி.	K1, K2	20
B	செய்யுள் வினாக்கள்	K3	20
C	இலக்கிய வரலாறு	K4	5
D	தனிநபர் கடிதம். விண்ணப்பக் கடிதம்	K5	5

End Semester Examination Total Marks: 100 Duration: 3 Hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS (100)
A	அனைத்து வினாக்களுக்கும் விடையளி. சரியான விடையைத் தேர்ந்தெடுத்து எழுதுக.	K1	20
B	குறுவினாக்கள்> இடம் சுட்டிப் பொருள் விளக்கம் தருக.	K2	20
C	செய்யுள் வினா	K3	30
D	நாடகம்> இலக்கிய வரலாறு.	K4	20
E	கடிதம் எழுதுதல்> விளம்பரம் தயாரித்தல்	K5	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TM/FC/SI43												
IV	Course Title: Sanga Ilakkiyam												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	1	1	1	1	2	2	2	2	2	1	1
CO 2	1	1	2	2	2	2	2	2	2	3	3	1	2
CO 3	1	2	2	2	2	2	2	2	2	3	3	1	2
CO 4	2	1	2	2	2	2	2	2	2	3	3	1	2
CO 5	2	2	2	2	2	2	2	2	1	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by the Department of Tamil to
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. /B.V.A / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

NATTUPURAKKALAI (ehl;Lg;Gwf;fiy)

CODE: 23TM/GE/NK22

CREDITS:2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

jhsdpd; Nehf;fk;:

- njhd;ikahd jkpof ehl;Lg;Gwf; fiyfis khztu;fSf;F mwpar; nra;jy;
- jkpof ehl;Lg;Gwf; fiyfspd; top gz;ghl;bid mwpjy;
- epfo;j;Jf; fiyfspd; njhd;ikia czu;j;Jjy;

jhsdpd; gad;fs;

COs	DESCRIPTION	CL
CO1	ehl;Lg;Gw ,yf;fpaq;fspd; Njhw;wk; kw;Wk; tsu;r;rpapid mwpar;nra;jy;	K1
CO2	ehl;Lg;Gwf; iftpidf; fiyfs;> \$j;J> ghly;fs; Nghd;wtw;iw mwpar;nra;jy;	K2
CO3	rkfhyj;jpy; r%fj;jpy; kwf;fg;gl;l ehl;Lg;Gw tpohf;fs; gw;wp mwpar;nra;jy;	K3

UNIT	CONTENT	CL	HRS	CO
1	<p>ehl;Lg;Gwtpay;> ehl;Lg;Gw ,yf;fpak; mwpKfk;</p> <p>1.1. ehl;Lg;Gwtpay; mwpKfk;</p> <p>1.2. ehl;Lg;Gw ,yf;fpak;</p> <p>1.3 ehl;Lg;Gwg; ghly;fs;</p> <p>1.4 fijg;ghly;fs; kw;Wk; Ml;lg; ghly;fs;</p>	K1-K3	9	1 -3
2	<p>ehl;Lg;Gwf; fiyfs;</p> <p>2.1 ehl;Lg;Gwf; fiyfs; mwpKfk;;</p> <p>2.2 Ml;lq;fs; (fhtb> fufk;> Njtuhl;lk;> xapy;> Fk;kp Nghd;wd)</p> <p>2.3 \$j;Jfs; mwpKfk;;</p> <p>2.4 njUf;\$j;J> ghitf;\$j;J> fzpahd; \$j;J</p>	K1-K3	8	1 -3
3	<p>iftpidj; jpwd;fs; kw;Wk; jpUtpohf;fs;</p> <p>3.1 iftpidg; nghUl;fs; mwpKfk;</p> <p>3.2 gidNahiy kw;Wk; Nfhiug;Gy;ypy; nra;ag;gLk; nghUl;fs;</p> <p>3.3 nghk;ikfs; kw;wk; fiyg;nghUl;fs; nra;jy;</p>	K1-K3	9	1 -3

	3.4 jpUtpohf;fs; kw;Wk; ehl;Lg;Gw czT Kiwfs;			
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ghh;it E}y;fs;

- ehl;;lhh; tof;fhw;wpay; Xh; mwpKfk;> Nj. Y}h;J> ghhpNty; gjpg;gfk;>

ghisaq;Nfhl;il> 1976.

- ehl;Lg;Gwg; ghly;fs; jpwdha;T> MW mofg;gd;> mz;zhkiyg;

gy;fiyf;fof ntspaPL> rpjk;guk;> 1983

- ehl;Lg;Gwtpay;> R. rf;jpNty;> kzpthrfu; gjpg;gfk;> nrd;id>1981

- jkpou; ehl;Lg;ghly;fs;> eh. thdkhkiy> vd;. rp. gp. vr; ntspaPL> nrd;id

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1 –K3	10
B	gj;jp tpdh	K1 –K3	15

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;GKiw (50 kjpg;ngz;)

m) vOj;Jj; Nju;T (25 kjpg;ngz;)

M) jpl;l Ma;T mwpf;if (25 kjpg;ngz;)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by the Department of Tamil to
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. /B.V.A / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

PADAIPPILAKKIYAM (gilg;gpyf;fpak;)

CODE: 23TM/GE/PI22

CREDITS: 2

LT P: 2 0 0

TOTAL TEACHING HOURS: 26

jhsdpd; Nehf;fk;:

- khztpahpd; gilg;Gj; jpwid tsh;j;jy;
- ,jo;fs; kw;Wk; Clfq;fspy; vOj topfhl;Ljy;
- gilg;Gj; jpwdpd; top Ntiy tha;g;Gf;fhd topKiwfis mwpar; nra;jy;

jhsdpd; gad;fs;

COs	DESCRIPTION	CL
CO1	tpijfs;> rpWfijfs; vOJk; Kiwiaf; fw;Wf;nfhs;Sjy;	K1
CO2	புது;ftpij> xU gf;ff; fij> rpWfij vOJjy;	K2
CO3	jo;fspy; vOJjy;;> rpwe;j gilg;ghsuhjy;	K3

UNIT	CONTENT	CL	HRS	CO
1	GJf;ftpij> i`f;\$ 1.1.mwpKfk;> fw;gid> fUj;J> tbtK;> czh;r;rp 1.2. GJf;ftpij tuyhW 1.3 [g;ghd; ehl;by; Njhd;wpa GJtbtF; ftpij 1.4 [g;ghdpaf; ftpijfisj; jkpopy; nkhopngah;j;j mg;Jy; uFkhd;> rp.kzp Nghd;Nwhh; ftpijfis vLj;Jf; \$wy;	K1-K3	10	1 -3
2	rpWfij> xU gf;ff; fij 2.1 tiuaiw> tpsf;fk; 2.2 rpWfij tsh;r;rp 2.3 rpwe;j rpWfijfs; 2.4 xU gf;ff; fijfisr; rhd;W fhl;Ljy;	K1-K3	10	1 -3
3	1 GJf;ftpij vOjg; gapw;rp 3.2 i`f;\$ vOjg; gapw;rp 3.3 rpWfij vOjg; gapw;rp 3.4 xU gf;ff; fij vOjg; gapw;rp	K1-K3	6	1 -3

ghh;it E}y;fs;

1. vOJk; fiy - mnyf;rp lhy;];lha;

jkpopy; jp.R eluh[d;>

,uz;lhk; gjpg;G 2016.

2.jkpo;g; GJf;ftpijfs;py; Nkw;fj;jpa jhf;fk;

Kidth;. Re;ju MTilag;gd>;

Kjw; gjpg;G 2015.

3.mz;ik fhyf; ftpijj; njhFg;Gfs;

(tuyhWk; tpkh;rdKk;)

e.KUNfrg;ghz;bad;

Kjw;gjpg;G – 2016.

4. ftpijapd; Njhw;wKk; tsh;r;rpAk;

Kidth;. Qhdk;>

Kjw; gjpg;G-2017

Rhujh gjpg;gfk;-nrd;id.

5. gilg;Gf;fiy

Kidth;.K.Rje;jpu Kj;J>

RtL> nrd;id>

Kjw;gjpg;G- 1999.

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	GJf;ftpij vOJjy;	K1 –K3	15
B	rpWfij vOJjy;	K1 –K3	10

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;GKiw (50 kjpg;ngz;)

m) vOj;Jj; Nju;T (25 kjpg;ngz;)

M) jpl;lf; fl;Liu (Assignment) (25 kjpg;ngz;)

GJf;ftpij rku;g;gpj;jy; - 15 kjpg;ngz;

rpWfij rku;g;gpj;jy; - 10 kjpg;ngz;

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by the Department of Tamil to
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. /B.V.A / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

POTTI THERVU TAMIL (Nghl;bj; Nju;T jkpo;)

CODE: 23TM/GE/PT22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

jhsdp; Nehf;fk;:

- Nghl;bj; Nju;Tfshd TNPSC, IAS Kjypa Nju;Tfis vjpu;nfhs;Sk; Mw;wiycUthf;Fjy;.
- muRg; gzpfSf;Fr; nry;y topfhl;Ljy;.
- jkpo; ,yf;fpak;> ,yf;fzk; kw;Wk; gz;ghl;bid mwpar;nra;jy;

jhsdp; gad;fs;

COs	DESCRIPTION	CL
CO1	huR Nghl;bj; Nju;TfSf;Fj; jkpo;nkhopg; ghlj;jpd;top ntw;wp ngwj; jahu;nra;jy;	K1
CO2	kp; ,yf;fpak;> ,yf;fzk; gw;wpa mwpKfj;ij toq;Fjy;	K2
CO3	kp;g; gz;ghl;L tuyhw;wpid mwpar;nra;jy;	K3

UNIT	CONTENT	CL	HRS	CO
1	jkpo; ,yf;fzk; 1.1 mfu tupirg;gLj;Jjy;> gpiog; jpUj;jk;> ,yf;fzf; Fwpg;G 1.2 xyp NtWghL> Ntu;r;nrhy;> nrhy;tif> thf;fpa tif> 1.3 Mq;fpyr; nrhy;Yf;F ,izahd jkpo;r;nrhy; 1.4 nra;As; cWg;Gf;fs;	K1-K3	10	1 -3
2	jkpo; ,yf;fpak; 2.1 rq;f ,yf;fpak; 2.2 ePjp ,yf;fpak; 2.3 fhg;gpaq;fs;> Guhzq;fs; 2.4 rpw;wpyf;fpaq;fs;> gf;jp ,yf;fpaq;fs; 2.5 ,f;fhy ,yf;fpak;> gpw ,yf;fpaq;fs;	K1-K3	10	1 -3
3	nghJj;jkpo; 3.1 jkpowpQu;fSk; jkpo;j;njhz;Lk; 3.2 jkpou; fiyfs; 3.3 jkpofKk; jkpoUk; 3.4 tpLjiyg; Nghuhl;l;jjpy; jkpo;g; ngz;fs;	K1-K3	6	1 -3

ghIE}y;

1. ,yf;fpa tuyhW - Nguhrphpah; - kJ. r. tpkyhde;jk;

ghu;it E}w;fs;

1. nghJj;jkpo; ,yf;fzk; - Kidtu; n[. rrpF;Fkhu;

ehkfs; gjpg;gfk;>

kJiu>

ntspaPL - 2016

2. ew;wkpo; ,yf;fzk; - Nrh.gukrptk;

le;jpizg; gjpg;gfk;>

nrd;id>

ntspaPL – 2014.

3. jkpo;ehL muRg; gzpahsu; Nju;thizaj; Nju;T tpdhj;jhs;fs;

4. TNPSC.Gov.in

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	rupahd tpiliaj; Nju;e;njLj;J vOJf	K1 –K3	25

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;GKiW (50 kjpg;ngz;)

m) vOj;Jj; Nju;T -1 (25 kjpg;ngz;)

M) vOj;Jj; Nju;T - 2 (25 kjpg;ngz;)

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SYLLABUS

(Effective from the academic year 2023 - 2024)

NADAGA TAMIL (ehlfi; jkpo;)

CODE: 23TM/GE/NT22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

jhspe; Nehf;fk;:

- ehlfi;jkpopd; rpwg;gpil czur;nra;jy;
- ehlfi;jpd; thapyhff; fUj;ij ntspg;gLj;Jk; cj;jpia mwpa itj;jy;
- ehlfg; gapw;rpfs; %yk; khzth;fspd; ebg;Gj; jpwid Nkk;gLj;Jy;.

jhspe; gad;fs;

COs	DESCRIPTION	CL
CO1	ehlfi;jpd; Njhw;wk; kw;Wk; tsu;r;rpapil mwpjy;.	K1
CO2	etPd ehlf Mrpupau;fs; gw;wpAk;> rkfh; ehlf; Nghf;F gw;wpAk; mwpar;nra;jy;	K2
CO3	Nkil ehlfq;fs;> tPjp ehlfq;fspd; %yk; r%f tpopg;Gzh;T kw;Wk; Kw;Nghf;Fr; rpe;jidfis Vw;gLj;jp mjd;topahfr; r%f tpOkpaq;fis mwpar;nra;jy;.	K3

UNIT	CONTENT	CL	HRS	CO
1	<p>ehlfk; - mwpKfk;> Njhw;wk; > tsu;r;rp;</p> <p>1.1. jkpo; ehlfj; Njhw;wk; - rq;f ,yf;fpak; topahf</p> <p>1.2. rpyg;gjpfhuk; - ehlf; \$Wfs;</p> <p>1.3 jkpopy; cyf ehlf tsu;r;rpapd; nry;thf;F</p> <p>1.4 ehlf tiffs; - Guhz> tuyhw;W> r%f ehlfq;fs; mwpKfk;;</p>	K1-K3	9	1 -3
2	<p>Nkil ehlfq;fs; kw;wk; etPd muq;fk;</p> <p>2.1 ehlf MSikfs; - gk;ky; rk;ke;j Kjypahu;> rq;fujh]; Rthkpfs;;</p> <p>2.2 Nkil ehlfq;fs; - tpLjiyf;F Kd;, tpLjiyf;Fg; gpd;</p> <p>2.3 etPd muq;fr; nray;ghLfs;</p> <p>2.4 muq;f mikg;G, xg;gid</p>	K1-K3	8	1 -3
3	<p>Clfk; > tPjp ehlfq;fs;> ehlf; gapw;rp</p> <p>3.1 Clfq;fs;py; ehlfq;fs; - thndhyp> njhiyf;fhl;rp></p> <p>3.2 tPjp ehlfq;fs;</p> <p>3.3 etPd Gjpa cj;jp ehlfq;fs;</p> <p>3.4 ehlf; gapw;rp mspj;jy;</p>	K1-K3	9	1 -3

ghh;it E}y;fs;

- jkpo; ehlfj; Njhw;wKk; tsu;r;rpAk;> Kidtu; MW. mofg;gd;> mz;zhkiyg; gy;fiyf;fofk;> 1987.;
- muq;ff; fiy> Kidtu; rf;jp ngUkhs;> [p gjpg;gfk;> kJiu>1990;
- ,Ugjhk; E}w;whz;L jkpo; ehlfq;fs;> cyfj; jkpohuha;r;rp epWtdk;> nrd;id> 1999
- ngz; - muq;fk; jkpo;r;#oy;> m. kq;if>];Nefh gjpg;gfk;> nrd;id>2001

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1 –K3	10
B	gj;jp tpdh	K1 –K3	15

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;GKiw (50 kjpg;ngz;)

m) vOj;Jj; Nju;T (25 kjpg;ngz;)

M) jpl;lf; fl;Liu> ehlfk; muq;Nfw;wk; (25 kjpg;ngz;)

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SYLLABUS

(Effective from the academic year 2023 - 2024)

MEDAI PECHU (Nkilg; Ngr;R)

CODE: 23TM/GE/MP22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

jhspd; Nehf;fk;:

- Nkilg; Ngr;Rf; fiyia tsHj;jy;
- Nkilapy; NgRtjw;Fg; gapw;rp mspj;J nkhopg;Gyikia cUthf;Fjy;
- jkpo;g; Ngr;rhsu;fis mwpKfk; nra;jy;;

jhspd; gad;fs;

COs	DESCRIPTION	CL
CO1	Nkilapy; NgRk; Mw;wiyg; ngwy;	K1
CO2	lgr;rhsh;fSf;F chpa jFjpfisAk; jpwd;fisAk; eilKiwapy; nray;gLj;Jk; Mw;wiy Vw;gLj;Jjy;	K2
CO3	yfg; Ngr;rhsu;fis mwpKfk; nra;jy;	K3

UNIT	CONTENT	CL	HRS	CO
1	<p>Ngr;Rf; fiy</p> <p>1.1. Ngr;Rf; fiy – XH mwpKfk;</p> <p>1.2. Ngr;Rj; jahhpf;Fk; KiwAk;> njhlq;Fk; KiwAk;</p> <p>1.3. Nkilg; Ngr;Rk; tpopg;GzHTk;</p> <p>1.4. eilKiwapy; Ngr;Rf; fiy</p> <p>1.4.1. Ngr;Rf; fiy – rpf;fy;fs;</p> <p>1.4.2. Ngr;Rf; fiy – tbtq;fs;</p> <p>1.4.3. Ngr;Rf; fiy – nka;g;ghLfs;</p> <p>1.4.4. Ngr;Rf; fiy – tsHf;Fk;</p>	K1-K3	9	1 -3

UNIT	CONTENT	CL	HRS	CO
	Nkilfs;			
2	<p>Nkilg; Ngr;rhsHfs;> Nkilg; Ngr;Rk; ClfKk;</p> <p>2.1. Nkilg; Ngr;rhsHfs;</p> <p>2.1.1. cyfshtpa Nkilg; Ngr;rhsHfs;</p> <p>2.1.2. jkpofj;jpd; jiyrpwe;j Nkilg; Ngr;rhsHfs;</p> <p>2.1.3. Nkilg; Ngr;Rk; Gj;jf thrpg;Gk;</p> <p>2.1.4. Nkilg; Ngr;Rk; nrhy; tsKk;;</p> <p>2.2. Nkilg; Ngr;Rk; ClfKk;</p> <p>2.2.1. thndhyp</p> <p>2.2.1. njhiyf;fhl;rp</p> <p>2.2.1. ,jo;fs;</p> <p>2.2.1. ,izak;> gpw r%f Clfq;fs;</p>	K1-K3	9	1 -3
3	<p>Ngr;Rf; fiyf;Fg; gapw;rp toq;Fjy;</p> <p>3.1. ,dpa Fuy;> njspthd cr;rhpg;G</p> <p>3.2. elg;gpay; Ngr;R</p> <p>3.3. jd;dk;gpf;ifAld; NgRjy;</p> <p>3.4. Ngr;rpdp; vLg;G> njhLg;G> Kbg;G</p>	K1-K3	8	1 -3

ghHit E}y;fs;:

Fkhp mde;jd;> Ngr;Rf; fiyg; gapw;rp> thdjp gjpg;gfk;> nrd;id> 2015

Nly; fhHdfp> Nkilg; Ngr;Rf; fiy> fz;zjhrd; gjpg;gfk;> 2015

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1 –K3	10
B	gj;jp tpdh	K1 –K3	15

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;GKiw (50 kjpg;ngz;)

m) vOj;Jj; Nju;T (25 kjpg;ngz;)

M) tha;nkhopj;Nju;T (25 kjpg;ngz;);

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SYLLABUS

(Effective from the academic year 2023-2024)

BASIC TAMIL-I (mbg;gilj; jkpo; - I)

CODE :23TM/GE/BT22

CREDITS :2

L T P :2 0 0

TOTAL TEACHING HOURS :26

jhspd; Nehf;fk; :

- jkpo;nkhopia mwpahj khzth;fSf;Fj; jkpio mwpKfk; nra;jy;.
- jkpo; nkhopiag; NgRtjw;Fk; vOJtjw;Fk; fw;Wf; nfhLj;jy;.
- jkpo;r; nrhw;fisg; gpiopd;wp thrpj;jy; vOjg; gapw;rp mspj;jy;.

jhspd; gad;fs; :

COs	DESCRIPTION	CL
CO1	jkpo;nkhopia mwpahj khzth;fs; jkpio mwpe;J nfhs;Sjy;	K1
CO2	jkpo; nkhopiag; NgRtjw;Fk; vOJtjw;Fk; fw;wy;	K2
CO3	jkpo;r; nrhw;fisg; gpiopd;wp thrpj;jy; kw;Wk; vOJjy;	K3

UNIT	CONTENT	CL	HRS	CO
1.	1.1. Ngr;Rj; jkpo; mwpjy; 1.2. vOj;Jj; jkpo; mwpjy; 1.3 md;whl tho;tpy; gad;gLj;Jk; nrhw;fis vspa Kiwapy; mwpKfk; nra;jy;	K1-K3	8	1 -3

UNIT	CONTENT	CL	HRS	CO
2.	<p>2.1 jkpo; nkhopapy; capu; vOj;Jf;fis vOjf; fw;Wf;nfhLj;jy;;</p> <p>2.2 nka; vOj;Jf;fisf; fw;Wf;nfhLj;jy;</p> <p>2.3 capu;nka; vOj;Jf;fis vOjf; fw;Wf;nfhLj;jy;</p>	K1-K3	10	1 -3
3.	<p>3.1.XnuOj;Jr; nrhw;fisf; fw;Wf;nfhLj;jy;</p> <p>3.2.<nuOj;Jr; nrhw;fisf; fw;Wf;nfhLj;jy;</p> <p>3.3.jkpopy; Ngr> vOjg; gapw;rp mspj;jy;</p>	K1–K3	8	1 -3

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1 –K3	10
B	nghUj;Jf> epug;Gf	K1 –K3	10
C	FWtpdh	K1 –K3	5

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;G Kiw

kjpg;ngz; : 50

kjpg;ngz; : 25 (m) vOj;Jj; Njh;T

kjpg;ngz; : 25 (M) tha;nkhopj; Njh;T

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SYLLABUS

(Effective from the academic year 2023-2024)

ADVANCED TAMIL – I (tsh;epiyj; jkpo; - I)

nra;As;> xU gf;ff;fij> nkhopngah;g;G

CODE :23TM/GE/AT22

CREDITS :2

L T P :2 0 0

TOTAL TEACHING HOURS :26

jhsdpd; Nehf;fk; :

- **jkpo;f; ftpijapd; Njhw;wk; kw;Wk; tsu;r;rp Fwpj;J mwpKfk; nra;jy;.**
- **ftpjfs; %yk; khzth;fSf;Fr; rkfhyr; r%fr; rpe;jidfis ntspg;gLj;Jjy;.**
- **jw;fhyr; rpWfijfspd; %yk; r%f elg;gpay; vt;thW
gpujpgypf;fg;gLfpd;wJ vd;gij czh;j;Jjy; kw;Wk;
gonkhopfis nkhopngah;f;fg; gapw;rp mspj;jy;.**

jhsdpd; gad;fs; :

COs	DESCRIPTION	CL
CO1	GJf;ftpjapd; Njhw;wk; kw;Wk; tsu;r;rpapid mwpjy;	K1
CO2	etPdf; ftpQu;fs; kw;Wk; ghlyhrpupau;fspd; ftpijfspd; top rkfhf;f; ftpjfspd; Nghf;fpidg; Gupe;J nfhs;Sjy;	K2
CO3	jw;fhyr; rpWfijfspd; %yk; rkfhf; tho;tpaypd; vjh;h;j;jj;ij mwpjy; kw;Wk; nkhopngah;f;fg; gapw;rp ngWjy;	K3

UNIT	CONTENT	CL	HRS	CO
1	1.1 kfhftp ghujpahh; Gjpa Mj;jpR+b 1.2 ghNte;jh; ghujpjhrd; mofpd; rphpg;G 1.3 ftpkzp Njrp tpehafk; gps;is cly; eyk; Ngzy; 1.4 ftpQh; jhkiu xU fJTk; nfhQ;rk; fs;spg;ghYk;	K1-K3	10	1 -3
2	2.1 K.Nkj;jh nrUg;Gld; xU Ngl;b 2.2 gh.tp[a; eh 2.3 Kidth; eh. ,sir Re;juk; neUg;G 2.4 ntz;zpyh Foe;ij> Gd;dif	K1-K3	10	1 -3
3	Njh;e;njLf;fg;gl;l rpWfijfs; (5) gonkhopfs; nkhopngah;g;G	K1-K3	6	1 -3

ghh;it E}y;fs;

1. ghNte;jh; ghujpjhrd; ftpijfs;
mz;zhkiy.mo(gjp.)
mgpuhkp gjpg;gfk;>
nrd;id> 2003.

2. kfhftp ghujpahh; ftpijfs;
,e;J gjpg;gfk;>

nrd;id 2007.

3. K.Nkj;jh ftpijfs;
ftpjh gg;spNf~d>;
nrd;id 2011.

4. ~ehkf;fy; ftpQh; ghly;fs;| - ,uhkypq;fk; gps;is
epa+ nrQ;Rhp Gf; `T];>
mk;gj;J}h>;
nrd;id> 2014.

5. ftpkzp Njrpf tpehafk; gps;isapd; ftpijfs;;|
njhFg;G – Kidth; =Fkhh;>
rhfpj;a mfhjkg ntspaPL>
nrd;id> 2016.

6. 'tpbaypd; ntspr;rk; ftpijfs;'
ftpQh; Kidth; eh. ,sir Re;juk>;
Gfo; gjpg;gfk>;
kJiu> 2017.

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	midj;J tpdhf;fSf;Fk; tpilasp	K1 –K3	10
B	nghUj;Jf> epug;Gf	K1 –K3	5
C	gj;jp tpdh> rpWfij> nkhopngau;g;G	K1 –K3	10

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;G Kiw

kjpg;ngz; : 50

kjpg;ngz; : 25 (m) vOj;Jj; Njh;T

kjpg;ngz; : 25 (M) vOj;Jj; Njh;T

STELLA MARIS COLLEGE (Autonomous), CHENNAI – 600 086

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SYLLABUS

(Effective from the academic year 2023 - 2024)

BASIC TAMIL-II (mbg;gilj; jkpo; - II)

CODE:23TM/GE/BT32

CREDITS:2

LTP :2 0 0

TOTAL TEACHING HOURS:26

jhsdpd; Nehf;fk;:

- jkpopy; njhlh;fis mikf;fg; gapw;Wtpj;jy;.
- jkpopy; ciuahlf; fw;Wf;nfhLj;jy;
- vspikahd jkpo; ,yf;fpaq;fis thrpf;fg; gapw;rp mspj;jy;.

jhsdpd; gad;fs; :

COs	DESCRIPTION	CL
CO1	kpopy; njhlh;fis mikf;ff; fw;wy;.	K1
CO2	jkpopy; ciuahl mwpjy;	K2
CO3	jkpo; ,yf;fpaq;fis thrpj;jy;	K3

UNIT	CONTENT	CL	HRS	CO
1.	1.1. capu;f; Fwpy;> capu; neby; - gapw;rp mspj;jy; 1.2. ty;ypdk;> nky;ypdk;> ,ilapdk; - mwp; nra;jy; 1.3 vspa nrhw;fspd; top xyp> vOj;J	K1-K3	8	1 -3

UNIT	CONTENT	CL	HRS	CO
	NtWghL mwpar; nra;jy;			
2	2.1 gad;juf;\$ba nghJthd ciuahly; 2.2 vspa njhluikg;Gg; gapw;rp 2.3 Ngr;R tof;Fr; nrhw;fSf;F ey;y jkpo;r; nrhw;fisf; fw;Wf;nfhLj;jy;;	K1-K3	10	1 -3
3	3.1. jkpopy; thrpj;jy;> nghUs; \$wy;> Mq;fpyj;jpYs;s rpW thu;j;jifis nkhopngau;j;jy; 3.2. ghujpahupd; ghg;ghg; ghl;L> Mj;jp#b fw;Wf;nfhLj;jy; 3.3 jkpopy; njhlu; thrpg;Gg; gapw;rp mspj;jy;	K1– K3	8	1 -3

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1 –K3	10
B	ng hUj;Jf> epug;Gf	K1 –K3	10
C	FWtpdh	K1 –K3	5

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;G Kiw

kjpg;ngz; : 50

kjpg;ngz; : 25 (m) vOj;Jj; Njh;T

kjpg;ngz; : 25 (M) tha;nkhopj; Njh;T

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**General Elective Course Offered by the Department of Tamil to
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SYLLABUS

(Effective from the academic year 2023-2024)

ADVANCED TAMIL – II (tsh;epiyj;jkpo; - II)

nra;As;> ciueil> fiyr;nrehw;fs;

CODE : 23TM/GE/AT32

CREDITS : 2

LTP :200

TOTAL TEACHING HOURS : 26

jhsdpd; Nehf;fk; :

- **mw ,yf;fpaq;fspd; top ed;ndwpfis czHj;Jjy;**
- **rq;f ,yf;fpaq;fspd; rpwg;G - mfk;> Gwj;jpizfspd; eak; mwpar; nra;jy;.**
- **fhyj;jpd; Njitf;Nfw;g jkpopy; cUthf;fg;gLk; Gjpa fiyr;nrehw;fis
mwpKfg;gLj;Jjy; kw;Wk; rhd;Nwhu; tho;tpay; epfo;Tfs; top khztu; jk;
MSikapid cUthf;Fjy;.**

jhsdpd; gad;fs; :

COs	DESCRIPTION	CL
CO1	mw ,yf;fpaq;fspd; top ed;ndwpfis mwpjy;	K1
CO2	rq;f ,yf;fpaq;fspd; rpwg;G - mfk;> Gwj;jpizfspd; eaj;ij czh;jy;	K2
CO3	jkpopy; cUthf;fg;gLk; Gjpa fiyr;nrehw;fis gad;gLj;Jjy; kw;Wk; rhd;Nwhu; tho;tpay; epfo;Tfs; top MSikapid tsh;j;jy;.	K3

UNIT	CONTENT	CL	HRS	CO
1	1.1 jpUf;Fws; 1.1.1. kUe;J - mjpgfhuk; 95 1.1.2. ngUik - mjpgfhuk; 98 1.2. mwnewpr;rhuk; 1.2.1. nka;k;ik> nghiwAilik... - ghly; 12 1.2.2. ,d;Ws;Nshh; ,d;NwAk;... - ghly; 20 1.2.3. xU ehSk; ePjhpaha;... - ghly; 36 1.3. KJnkhopf; fhQ;rp – ‘mwpTg; gj;J’ 1.4. ey;top 1.4.1. ePwpy;yh new;wpgcho;... - ghly; 24 1.4.2. khdk; Fyk; fy;tp... - ghly; 26	K1-K3	10	1 -3
2	2.1 fz;zjhrd; - ,NaR fhtpak; ‘,urk; jPh;e;J tpl;IJ’ 2.2. FWe;njhif - ghly; 167 \$!Y}h; fpohh; - Ky;iy 2.3. GwehD}W - ghly; 278 fhf;ifghbdpahh; - Jk;ig 2.4. Iq;FWE}W - ghly; 56 Xuk;Nghfpahh; - kUjk;	K1-K3	10	1 -3
3	3.1 fiyr;nrrhw;fs; (Mq;fpyr; nrrhw;fSf;F ,izahd fiyr;nrrhw;fs); 3.2. ciueil – ‘NkNyhh; tho;tpy; 100 Nkd;ikahd rk;gtq;fs;’	K1-K3	6	1 -3

ghHit E}y;fs;

1. ftpQh; gj;kNjtd;> jkpo;g;gphpad; (ciuahrphpah;fs);>
ePjpE}y; fsQ;rpak;>

**nfhw;wit ntspaPL>
nrd;id (2018)**

**2. mwthzd; f.g.>
Gjpa ghHitapy; gjpndz;fPo;f;fzf;F>
jkpo;f; Nfhl;lk; gjpg;gfk;>
nrd;id. (2010)**

**3. GypA+h;f; Nfrpfd;>
lq;FWE}W>
fq;if Gj;jf epiyak;>
nrd;id. (2010)**

**4. GypA+h;f; Nfrpfd;>
GwehD}W>
fq;if Gj;jf epiyak;>
nrd;id. (2010)**

**5. Gyth; r. rPdpthrd;> tpj;Jthd; eh. godpag;gd;> (ciuahrpah;fs;)
thrd; jkpo; ePjpr;nry;tk;>
rhe;jh gg;sp\h;];>
nrd;id. (1995)**

**6. fz;zjhrd;>
,NaR fhtpak;>
fiyf;fhthp ntspaPL>
jpUr;rpuhg;gs;sp. (1992)**

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1 –K3	10
B	nghUj;Jf> epug;Gf>	K1 –K3	5
C	gj;jp tpdh> fiyr; nrhw;fs;> fl;Liu	K1 –K3	10

njhlHkjpg;gPl;Lj; NjHT tpdh mikg;G Kiw

kjpg;ngz;; 50

kjpg;ngz;; 25 (m) vOj;Jj; NjHT

kjpg;ngz;; 25 (M) vOj;Jj; NjHT



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

**B.Voc. PROGRAMME
FOUNDATION COURSE - TAMIL
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI- 600086

DEPARTMENT OF TAMIL

Kd;Diu

,uz;lhapuk; Mz;LfSf;F Nkyhd gz;ghl;Lj; njhlh;r;rpiaj; jd;dfj;Nj nfhz;L> jiy rpwe;J tpsq;fptUk; tho;tpay; ,yf;fpaNk jkpo; ,yf;fpak;. ,aw;ifNahL ,iae;J edpehfhpfkhf tho;e;j jkpo; kf;fspd; njhd;ikahd nkhop tsj;ijj; jkpo; ,yf;fpaq;fs; vLj;jpak;Gfpd;wd. jkpoh;fspd; ngUikkpF fyhr;rhu;j;jpw;F kpfg; nghpa rhd;whf tpsq;Fk; jkpo; ,yf;fpaq;fspd; nrOikiaj; jkpo;r;r%f tuyhw;iw khzth;fs; mwpe;Jnfhs;s Ntz;Lk; vd;w Nehf;fj;ij mbg;gilahff; nfhz;L ,sq;fiy khzth;fSf;fhdg; nghJj;jkpo; ghlj;jpl;l; tbtkf;fg;gl;Ls;sJ.

rq;f ,yf;fpaq;fspd; mfg;Gw tho;tpay;> fhg;gpa ,yf;fpaq;fspd; fUj;jpay;> ePjp E}y;fspd; mwnewp> gf;jp ,yf;fpaq;fspd; ,iwnewp> jw;fhyf; ftpijfspd; jdpj;jd;ikfs; Nghd;wtw;iw vLj;Jiuf;Fk; tifapYk; ghlj;jpl;l; mikf;fg;gl;Ls;sJ. rq;f ,yf;fpaq;fs; Kjy; jw;fhy ,yf;fpaq;fs; tiu jkpopyf;fpakhdJ> jkpo;g; gz;ghl;L> ehfhpf; #oYf;Nfw;g gy;NtW ,yf;fpa tifikfshfj; jioj;Njhq;fp te;Js;sij khzth;fs; mwpe;Jnfhs;Sk; tifapy; ,g;ghl;Jjpl;l; mikfpd;wJ.

jkpo; ,yf;fpaq;fisf; fw;gjd; %ykhf tho;tpay; tpOkpaq;fis ed;F czh;e;J> mwnewpNahL tho;jy;> topf;fhl;Lk; jpwd;ngWjy;> gpioapd;wpg; NgRjy;> vOJjy;> gilg;ghw;wy; ngWjy;> nkhopngah;g;G nra;jy;> tpz;zg;gf;fbjk; vOJjy;> jpwdha;T nra;jy;> muRj; Njh;Tfspy; ntw;wp ngWjy;> ehlff;fiy kw;Wk; ehl;Lg;Gwf; fiyfs; Nghd;wtw;iwf; fw;wy; Nghd;wit ,g;ghl;Jjpl;l;jpd; fw;wy; tpisTfshf mikfpd;wd

g;Skpd; tif gphpj;jy; Kiwapd;gb ,g;ghl;Jjpl;l; fw;gpj;jy; kw;Wk; kjpg;gPl;L Kiwfs; Mfpatw;Wld; nghUj;jkhd mwpthw;wy; epiyfSld; mikf;fg;gl;Ls;sJ. mfkjpg;gPl;L Kiw kw;Wk; Gw kjpg;gPl;L Kiwfs; khzth;fspd; mwpthw;wiy kjpg;gpLtjw;Fk; kw;Wk; ghlnewp Kbit kjpg;gpLtjw;Fk; toptFf;fpd;wd.

DEPARTMENT OF TAMIL

VISION AND MISSION

Nehf;F - VISION

Expansion of the department to include inter-disciplinary and research programmes thereby honing leadership, organisational skills of students which eventually enhance their employability.

Nghf;F - MISSION

- To impart language proficiency and to facilitate the students of diverse socio, economic and cultural background to acquire linguistic and communicative skills.
- To kindle participatory learning methods through student-centred activities.
- To serve the student community with integrity and commitment through innovative and quality teaching.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO 1	Introduce the history of Tamil literature and Tamil literary forms.
PSO 2	Demonstrate the culture and tradition of Tamil society through Tamil literature.
PSO 3	Acquire knowledge pertaining to Tamil literary tradition and inculcate the values.
PSO 4	Develop the methods of communication, to improve their LSRW skills, to enable them to practice these skills in their daily life by identifying instances of communication in the circumstances of their own.
PSO 5	Exploring, analysing and enriching self-knowledge to nurture analytical qualities or skills, thinking power, creativity through assignments and project works.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086**B.Voc. PROGRAMME****FOUNDATION COURSE-TAMIL****COURSES OF STUDY**

(Effective from the academic year 2023 - 2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
Semester - I									
23TM/FC/VT14	Vocational Tharkkaala Tamil	4	4	0	0	3	25	75	100
Semester - II									
23TM/FC/VA24	Vocational Arramum Bakthiyum	4	4	0	0	3	25	75	100
Semester - III									
23TM/FC/VK34	Vocational Kappiya Ilakkiyam	4	4	0	0	3	25	75	100
Semester - IV									
23TM/FC/VS44	Vocational Sanga Ilakkiyam	4	4	0	0	3	25	75	100
GENERAL ELECTIVE COURSES									
23TM/UE/BT12	Basic Tamil - I	2	2	0	0	-	50	-	100
23TM/UE/BT22	Basic Tamil - II	2	2	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

BACHELOR OF VOCATIONAL(B.Voc) PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

**FOUNDATION COURSE
VOCATIONAL THARKALA TAMIL**

Kjy; gUtk; (ghlj;jpl;lk;)

nra;As;, ,yf;fpa tuyhW, rpWfij, gilg;gpyf;fpak;

CODE : 23TM/FC/VT14

CREDITS:4

L T P:4 0 0

TOTAL TEACHING HOURS:52

jhsdpd; Nehf;fk;:

- jkpo;f; ftpijapd; Njhw;wk; kw;Wk; tsu;r;rp Fwpj;J mwpKfk; nra;jy;
- ftpijfs; %yk; khzth;fSf;Fr; rkfh y r%fr; rpe;jidfis ntspg;gLj;Jjy;
- nra;As; gFjpapy; ,lk;ngWk; Mrpupau;fspd; tuyhw;wpid mwp; nra;jy;
- rpWfijfspd; topahf khztu; jk; MSikapid cUthf;Fjy;
- ftpijfs; kw;Wk; xUgf;ff; fijfisg; gilf;Fk; Mw;wiy tsh;j;jy;;

jhsdpd; gad;fs;

COs	DESCRIPTION	CL
CO 1	GJf;ftpjapd; Njhw;wk; kw;Wk; tsu;r;rpapid mwpjy;	K1
CO 2	etPd ftpQu;fspd; ftpijfspd;top rkfh yf; ftpijfspd; Nghf;fpidg; Gupe;J nfhs;Sjy;	K2
CO 3	,yf;fpa MSikfspd; jdpj;jd;ikfis czur; nra;J jw;fhyf; ftpijfis kjpg;gPL nra;jy;	K4
CO 4	rpWfijfspd;top kdpj tho;f;ifapd; tpOkpaq;fis czur;nra;jy;	K3
CO 5	GJf;ftpj kw;Wk; xU gf;ff; fij gilf;Fk;; gilg;ghw;wiy tsu;j;jy;.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 kfhftp ghujpahh; 1.1.1. kdjpy; cWjp Ntz;Lk; 1.1.2 ngz;fs; tpLjiyf; Fk;kp 1.2 ghNte;jh; ghujpjhrd; 1.2.1 ,aw;if – rpupj;j Ky;iy> cja #upad; 1.2.2 ,d;gj; jkpo; 1.3 ftpauR eh. fhkuhrd; 1.3.1 #upa fhe;jp 1.4 ftpQh; K.Nkj;jh – fz;zPu;g; G+f;fs; 1.4.1.Njrg;gpjhTf;F xU njUg; ghlfdpd; mQ;ryp 1.4.2. nrUg;Gld; xU Ngl;b	K1-K3 K1-K3 K1-K3 K1-K3	13	1 -5
2	2.1 ftpQh; rpw;gp – xU fpuhkj;J ejp 2.1.1 XL> XL rq;fpyp 2.1.2. ngy;[pak; fz;zhh 2.2 ftpQh; jkpor;rp jq;fghz;bad; - vQ;Nrhl;Lg; ngz; 2.2.1 vQ;Nrhl;Lg; ngz; 2.3 ftpQh; gh. tp[a; - thdtpy; G+q;fh 2.3.1. Gd;dif vd;d tpiy 2.3.2. eh 2.3.3. jtk; 2.4 ftpQh; jhkiu 2.4.1. xU fjTk; nfhQ;rk; fs;spg; ghYk;	K1-K3 K1-K3 K1-K3 K1-K4	13	1 -5
3	,yf;fpa tuyhW – ghlk; jOtpaJ	K2	8	1 -5
4	Xw;iwr; rpwF - ,yf;fpar; rpe;jid tpUJ ngw;w rpWfijfs;	K4, K5	10	1 -5
5	5.1 gilg;gpyf;fpak; gilj;jy; 5.1.1. GJf;ftpij gilj;jy; 5.1.2. xU gf;ff; fij gilj;jy;	K3-K5	8	1 -5

ghl E}y;

ftpij fl;Liu – jkpo;j;Jiw ntspaPL

ghh;it E}y;fs;

1. kfhftp ghujpahh; ftpijfs;>
 ,uhkehjd; tpfU(gjp.)>
 ,e;J gjpg;gfk;>
 nrd;id - 2007.
2. ghNte;jh; ghujpjhrd; ftpijfs;>
 mz;zhkiy.mo(gjp.)>
 mgpuhkp gjpg;gfk;>
 nrd;id - 2003.
3. fz;zPu;g; G+f;fs>;
 K.Nkj;jh>
 21 – Mk; gjpg;G>
 jpUkfs; epiyak;>
 55>ntq;fl; ehuhazh rhiy> jp.efu;>
 nrd;id – 600 017.
4. xU fpuhkj;J ejp>
 ftpQh; rpw;gp>
 gjpg;G Mz;L – 1998.
 ftpjh ntspaPL>
 khrpyhkzp njU> ghz;b g[hu;> jp. efu>;
 nrd;id – 600 017.
5. vQ;Nrhl;Lg; ngz;>
 ftpQh; jkpor;rp jq;fghz;bad;>
 gjpg;G Mz;L – 2012>
 fht;ah gjpg;gfk;>
 bu];LGuk;> Nfhlk;ghf;fk;>
 nrd;id - 600 024.
6. xU fjTk; nfhQ;rk; fs;spg; ghYk;>

ftpQh; jhkiu>
gjpg;G Mz;L – 2012>
Fkud; gjpg;gfk;>
ghu;j;j rhujpGuk;> jp. efu;>
nrd;id – 600 017.

7. thdtpy; G+q;fh>
ftpQh; gh. tp[a;>
%d;whk; gjpg;G – 2004
Fkud; gjpg;gfk;>
ghu;j;j rhujpGuk;> jp. efu;>
nrd;id – 600 017.

6. ,Ugjhk; E}w;whz;Lj; jkpo; ftpQh;fs;; Njrpag; gh;it>
Kidth;. . Mh; ,utpr;re;jpud>;
Kjw; gjpg;G 2013>
fhh;Kfpy; gjpg;gfk>;
jpUr;rp.

7. mz;ikf; fhyf; ftpijj; njhFg;Gfs; (tuyhWk; tpkh;rdKk;)>
e.KUNfrg;ghz;bad; ntspaPL - ghujp Gj;jfhyak;>
kJiu.

8. ftpijapd; Njhw;wKk; tsh;r;rpAk;>
Kidth; . Qhdk;>
gjpg;G- 2017>
rhujh gjpg;gfk;>
nrd;id.

9. xw;iwr; rpwF - rpWfijj; njhFg;G>
jkpo;j;Jiw ntspaPL];nly;yh khup]; fy;Y}up>
nrd;id – 86.

ghu;it ,jo;fs;

1. gbfk;>
2. capu;ik>
3. fhyr;RtL>

4. GJg;Gdy;

5. fy;Fjpiu

6. vOj;J

Continuous Assessment Test Total Marks:50 Duration: 1 ½ hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1, K2	20
B	nra;As; tpdhf;fs;	K3	20
C	,yf;fpa tuyhW	K4	5
D	gilg;gpyf;fpak;	K5	5

End Semester Examination Total Marks:100 Duration:3 hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS(100)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1	20
B	FWtpdhf;fs;> ,lk; Rl;bg; nghUs; tpsf;fk; jUf.	K2	20
C	nra;As; tpdhf;fs;	K3	30
D	rpWfij – jpwdha;T ,yf;fpa tuyhW	K4	20
E	GJf;ftpij> xUgf;ff; fij vOJjy;	K5	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TM/FC/VT14
I	Course Title: Voctional Tharkala Tamil

Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	1	1	1	1	1	1	2	2	1	1	2
CO 2	2	2	2	2	2	2	2	1	2	2	2	1	2
CO 3	1	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	1	2	1	1	2	2	2	2	1	2	2	1	2
CO 5	1	2	1	2	2	2	2	1	1	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B. Voc. DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

FOUNDATION COURSE – TAMIL

VOCATIONAL ARRANGEMENT BAKTHIYAM;

,uz;lhk; gUtk; (ghlj;jpl;lk;)

nra;As;> ,yf;fpa tuyhW> rpWfij> nghJf;fl;Liu> fiyr;nrhw;fs;

CODE : 23TM/FC/VA24

CREDITS: 4

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

jhsdp; Nehf;fk;:

- mwk; kw;Wk; gf;jp ,yf;fpaq;fis mwpKfg;gLj;Jjy;.
- mwk; kw;Wk; gf;jp ,yf;fpaq;fspd;top ed;ndwpfisAk;> gf;jp newpfisAk; czh;j;Jjy;.
- NkNyhu; tho;tpd; Nkd;ikahd rk;gtq;fis mwpar;nra;J mtw;wpd;%yk; r%f elg;gpay; vt;thW gpuijgypf;fg;gLfpd;wJ vd;gij czur;nra;jy;.
- fhyj;jpd; Njitf;Nfw;g jkpopy; cUthf;fg;gLk; Gjpa fiyr;nrhw;fis mwpKfg;gLj;Jjy;.
- rpe;jidj;jpwid tsh;f;Fk; tifapy; nghJf;fl;Liufs; gilf;f gapw;rp mspj;jy;.

jhsdpd; gad;fs;

COs	DESCRIPTION	CL
CO1	mwk; kw;Wk; gf;jp ,yf;fpaq;fspd; tuyhw;wpid mwpjy;.	K1
CO2	mwk; kw;Wk; gf;jp ,yf;fpaq;fspd;top ed;ndwpfisAk;> gf;jp newpfisAk; czh;jy;.	K2
CO3	fhyj;jpd; Njitf;Nfw;g jkpopy; cUthf;fg;gLk; Gjpa fiyr;nrhw;fisg; gad;gLj;Jjy;.	K3
CO4	NkNyhu; tho;tpd; Nkd;ikahd rk;gtq;fis mwpar; nra;J mtw;wpd; %yk; rkfh; tho;tpaypd; vjhh;j;jj;ij kjpg;gPL nra;jy;.	K4
CO5	rpe;jidj; jpwid tsh;f;Fk; tifapy; nghJf;fl;Liufs; gilj;jy;.	K5

[illegible]

UNIT	CONTENT	CL	HRS	CO
3	3.1. jpUehTf;furh; Njthuk; ehkhh;f;Fk; Fbay;Nyhk; - (5 ghly;fs;) 3.2. Mz;lhs; - ehyhapu jpt;tpa gpuge;jk; thuzk; Mapuk; 3.3. ftpQh; ,. Fw;whyk; gps;is ,NaRejh; gps;isj;jkpo; tUifg; gUtk; - (3 ghly;fs;) mk;Gyp gUtk; - (3 ghly;fs;) 3.4. Fzq;Fb k];jhd; rhfpG guhguf;fz;zp (5 fz;zpfs;)	K1–K3	12	1 -3
4	NkNyhu; tho;tpy; Nkd;ikahd rk;gtq;fs; (10 fl;Liufs;) jkpo;j;Jiw ntspaPL	K4	8	4
5	nghJf;fl;Liu kw;Wk; fiyr;nrhw;fs;	K5	8	5

ghl E}y; - mwKk; gf;jpAk; – jkpo;j;Jiw ntspaPL
];nly;yh khhp]; fy;Y}hp> nrd;id

ghh;it E}y;fs;

- ‘Gjpa Nehf;fpy; jkpo; ,yf;fpa tuyhW’
 jkpoz;zy;>
 kPdhl;rp Gj;jf epiyak;>
 kJiu>
 (2015 – 33 -Mk; gjpg;G)
- ‘Gjpa ghh;itapy; gjpndz;fPo;f;fzf;F’
 f.g. mwthzd;>
 jkpo;f; Nfhl;lk; gjpg;gfk;>
 nrd;id (2010).
- ‘thrd; jkpo; ePjpr;nry;tk;’
 Gyth; r. rPdpthrd;> tpj;Jthd; eh. godpag;gd; (c.>M)>
 rhe;jh gg;sp~h;];>
 nrd;id (1995).
- ‘ehyhapu jpt;tpag; gpuge;jk;’

(xd;gJ njhFjpf;)
fkyf;fz;zd; ,uh. t. (c.M.>)
th;j;jkhdd; gjpg;gfk>;
nrd;id.

5. ‘gonkhop ehD}W’
 ,uhrkhzpf;fk; gps;is k.> (c.M.>)
irtrpj;jhe;j E}w;gjpg;Gf;fofk;
Mo;thh;Ngl;il
nrd;id
(2007)

6. ‘jpUehTf;fuR Rthkpfs; Njthuk;’
 ,uhkRg;gpukzpak; t.j.> (c. M.>)
th;j;jkhdd; gjpg;gfk;
jpahfuha efh;
nrd;id (1998.)

7. ‘jpUf;Fws;’
 tujuhrdhh;> K.> (c.M.>)>
irt rpj;jhe;j E}w;gjpg;Gf; fofk;>
nrd;id (2000).

8. ‘,d;dh ehw;gJ’
 ehtyh; Ntq;flrhkp ehl;ltuth;fs; th.e.K.> (c.>M)>
jpUney;Ntyp> njd;dpe;jpa irt rpj;jhe;j E}w;gjpg;Gf; fofk>;
Mo;thh;Ngl;il>
nrd;id (2007).

9. ‘Vyhjp’
 jpU. ghyRe;juk; jp.R. (c.>M)
jpUney;Ntyp> njd;dpe;jpa irt rpj;jhe;j E}w;gjpg;Gf; fofk;>
Mo;thh;Ngl;il>

nrd;id (2007).

10. 'Fzq;Fb k];jhd; rhfpG ghly;fs;' (ghl;Lk;> ciuAk;)>
kh. tbNty; Kjypahh;>
ghhp epiyak;>
nrd;id.

11. 'ePjp E}y; fsQ;rpak;'
ftpQh; gj;kNjtd;> jkpo;g;gphpad; (c.>M)>
nfhw;wit ntspaPL>
jpahfuhah; efh;>
nrd;id (2018).

12. 'VRehjh; gps;isj;jkpo;'
ftpQh; ,. Fw;whyk; gps;is>
md;G epiyak;>
ehfh;Nfhtpy; (1994).

- ghu;it ,jo;fs;
1. cq;fs; E}yfk;
2. capu;ik
3. fhyr;RtL
4. GJg;Gdy;
5. fy;Fjpiu
6. vOj;J

Continuous Assessment Test

Total Marks: 50

Duration: 1 ½

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
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A	midj;J tpdhf;fSf;Fk; tpilasp.	K1, K2	20
B	nra;As; tpdhf;fs;	K3	20
C	,yf;fpa tuyhW	K4	5
D	fiyr;nrrhw;fs;> nghJf;fl;Liu	K4, K5	5

End Semester Examination Total Marks: 100 Duration: 3 Hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS (100)
A	midj;J tpdhf;fSf;Fk; tpilasp> Nfhbl;l ,lq;fis epug;Gf> fPo;f;fhZk; \$w;W rhpah? jtwh?	K1	20
B	FWtpdhf;fs;> ,lk; Rl;bg; nghUs; tpsf;fk; jUf.	K2	20
C	nra;As; tpdh	K3	30
D	fl;Liufs;> ,yf;fpa tuyhW	K4	20
E	nghJf;fl;Liu> fiyr;nrrhw;fs;	K5	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TM/FC/VA24												
II	Course Title: Voctional Arramum Bakthiyum												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	1	1	1	1	1	1	1	3	2	2	1	1
CO 2	1	2	2	1	2	1	2	2	2	3	3	1	2
CO 3	1	2	2	2	2	2	2	1	1	1	2	2	2
CO 4	1	2	1	1	2	1	2	2	1	2	2	1	2
CO 5	2	3	2	2	2	2	2	2	1	1	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B. VOC DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

**FOUNDATION COURSE – TAMIL
VOCATIONAL KAPPIYA ILLAKKIYAM**

(nra;As;, ,yf;fpa tuyhW, ehty;, nkhop ngah;g;G> E}y; kjpg;Giu)

CODE : 23TM/FC/VK34

CREDITS:4

L T P:3 1 0

TOTAL TEACHING HOURS:52

jhsdpd; Nehf;fk;:

- jkpo;f; fhg;gpaq;fs; Fwpj;j mwpKfk;> fhg;gpa ,yf;fz tiuaiwfis mwpKfk; nra;jy;
- fhg;gpaq;fspd;top jkpoh; gz;ghl;L tuyhw;wpid mwpar;nra;jy;
- fhg;gpa ,yf;fpa tuyhw;wpd;top fhg;gpaq;fspd; jdpj;jd;ikia czur;nra;jy;
- rkfh y ehtypd;top r%fj;jpd; ,ay;gpidaK; kdpj tho;f;ifapd; kjpg;gPLfisAk; Muha;jy;.
- ,d;iwa eilKiwj; Njitf;F Vw;g nkhopngau;g;G kw;Wk; E}y; kjpg;Giuapd; top nkhopg; gapw;rpiaAk; nkhop MSikiaAk; tsur; nra;jy;.

jhspd; gad;fs;

COs	DESCRIPTION	CL
CO1	fhg;gpa fhy khe;ju;fspd; tho;tpay; newpfis mwpjy;	K1
CO2	fhg;gpaf; fijfspd;top gf;jpnewpapd; gd;Kfj;jd;ikiag; Gupe;J nfhs;Sjy;	K2
CO3	hg;gpa Mrpupau;fspd; tuyhw;wpid mwpjy;	K3
CO4	ehly; top r%f elg;gpaiy vLj;Jf; fhl;b tpopg;Gzh;T ngWjy;	K4
CO5	fq;fpyj;jpypUe;J jkpopy; nkhopngau;g;G nra;Ak; Mw;wiy tsu;j;jy;.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1. rpyg;gjpfhuk; - kq,fy tho;j;Jg; ghly; (23- 68 tupfs;) 1.2. kzpNkfiy - cjaFkhuid thshy; vwpe;j fhij (1- 20 thpfs;) 1.3. rPt f rpe;jhkzp – rPtfd; gpwg;G (7 ghly;fs;) 1.4. fk;guhkhazk; - Ffg;glyk; (10 ghly;fs;)	K1-K3	14	1 -3
2	2.1. jpUj;njhz;lh; Guhzk; – jpUehTf;furu; Guhzk; (7 ghly;fs;) 2.2;. rPwhg;Guhzk; - khDf;Fg; gpiz epd;w glyk;; (10 ghly;fs;) 2.4. ,ul;rz;a ahj;jpupfk; (7 - ghly;fs;)	K1-K3	14	1 -3

UNIT	CONTENT	CL	HRS	CO
3	,yf;fpa tuyhW – ghlk; jOtpaJ	K3	8	3
4	ehty; - Ntupy;yh kuq;fs; . rptrq;fup	K4	10	4
5	nkhopngah;g;G – (Mq;fpyj;jpypUe;J jkpopy;) E}y; kjpg;Giu	K4-K5	6	4-5

ghlE}y;

fhg;gpak; Guhzk; - jkpo;j;Jiw ntspaPL

ghh;it E}y;fs;:

1. rpyg;gjpfhuk;> mbahh;f;F ey;yhh; ciu
2. kzpNkfiy> fof ntspaPL> nrd;id.
3. rPtfrpe;jhkzp> fof ntspaPL> nrd;id
4. fhg;gpa Nehf;fpy; fk;guhkhazk;> Kidtu;.m. ghz;Luq;fd;>
5. epA+ nrQ;Rup Gf; `T];> nrd;id>2007
6. jpUj;njhz;lu; Guhzk;> Nrf;fpohu;> jpUg;gde;jhs; = fhrp klk;
ntspaPL> 1950
7. fhg;gpanewp> jp. Ukh> jpahfuhrh gjpg;gfk;> fhiuf;Fb> 2002

8. Gjpa Nehf;fpy; jkpo; ,yf;fpa tuyhW> jkpoz;zy;> kPdhl;rp Gj;jf epiyak;> kJiu>

2015.

Continuous Assessment Test Total Marks: 50 Duration: 1 ½

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1, K2	20
B	nra;As; tpdhf;fs;	K3	20
C	,yf;fpa tuyhW	K3	5
D	E}y; kjpg;Giu nkhopngau;g;G	K4 K5	5

End Semester Examination Total Marks: 100 Duration: 3 Hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS (100)
A	midj;J tpdhf;fSf;Fk; tpilasp> rhpahd tpiliaj; Njh;e;njLj;J vOJf	K1	20
B	FWtpdhf;fs;> ,lk; RI;bg; nghUs; tpsf;fk; jUf.	K2	20
C	nra;As; tpdhf;fs;	K3	30
D	ehty;> ,yf;fpa tuyhW	K3,K4	20

E	nkhopngah;g;G (Mq;fpyj;jpypUe;J jkpopy;) E}y; kjpg;Giu	K4, K5	10
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**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TM/FC/VK34												
III	Course Title: Voctional Kappiya Ilakkiyam												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	1	1	2	1	2	2	1	3	3	1	2
CO 2	1	2	2	1	2	1	2	2	2	3	3	1	2
CO 3	1	1	1	1	1	1	1	1	3	2	1	1	1
CO 4	2	2	2	1	2	2	2	2	2	2	2	1	3
CO 5	2	2	2	2	2	2	2	1	1	1	1	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B. Voc. DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

**FOUNDATION COURSE – TAMIL
VOCATIONAL SANGA ILAKKIYAM**

(நா;As;> ,yf;fpa tuyhW> ehlfk;> fbjம்;> விளம்பரம்)

CODE : 23TM/FC/VS44

CREDITS:4

L T P:3 1 0

TOTAL TEACHING HOURS:52

jhspd; Nehf;fk;:

- rq;f ,yf;fpaq;fspd; rpwg;G – vl;Lj;njhif> gj;Jg;ghl;L E}y;fspd; top rq;ffhy kf;fspd; gz;ghl;bid czu;j;Jjy;.
- ghle;jOtpa ,yf;fpa tuyhw;wpid mwpKfk; nra;jy;.
- ehlfj; jkpopd; rpwg;gp id czu;j;jp> இலக்கிய நாடகத்தின் வழி tpopg;Gzu;வை ஏற்படுத்துதல்.
- r%f Clf tsu;r;rpahy; kiwe;JNghd fbjk; vOJk; mikg;G Kiwiaf; fz;lwp ar;nra;jy;.
- tpsk;gu mwk; kw;Wk; mjd; cj;jpfis czu;j;jp tpsk;guk; jahupf;fr; nra;jy;.

jhspd; gad;fs;

COs	DESCRIPTION	CL
CO1	rq;f ,yf;fpaj;jpd; rpwg;gp id mwpjy;	K1
CO2	rq;f ,yf;fpak; fhl;Lk; tuyhw;Wr; nra;jpfs;> tho;tpay; \$Wfisg; Gupe;J nfhs;Sjy;	K2
CO3	q;f ,yf;fpa நூல்களின்வழி தமிழ்ப் பண்பாட்டு tuyhw;wp id mwpjy;	K3
CO4	நாடகத்தின் top r%f tpopg;G ணர்வு பெறுதல்	K4
CO5	fbjk; vOJk; Kiwapid mwpjy;> tpsk;guk; jahupj;jy;	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 .குறுந்தொகை 1.1.1. மருதம் பாடல் - 31 1.1.2. குறிஞ்சி பாடல் - 54 1.1.3. பாலை பாடல் - 135	K1-K3	14	1 -3
	1.2. ஐங்குறுநூறு 1.2.1. வெள்ளாங்குருகு பத்து - 152 1.2.2. அன்னாய் வாழி தோழி பத்து - 208 1.2.3. மஞ்ஞை பத்து - 294			
	1.3. அகநானூறு 1.3.1. நெய்தல் பாடல் - 80 1.3.2. பாலை பாடல் - 275 1.3.3. நெய்தல் பாடல் - 280	K1-K3		
	1.4. புறநானூறு 1.4.1. வஞ்சி தும்பை திணை - 46 1.4.2. தும்பை திணை - 87 1.4.3. பாடாண் திணை - 139 1.4.4. பொய்யியல் திணை - 214	K1-K3		
2	2.1. பொருநர் ஆற்றுப்படை 1.1. பாடல் அடி 130 -158 2.2. மதுரைக் காஞ்சி 2.1.பாடல் அடி 197-209; 2.3. குறிஞ்சிப்பாட்டு	K1-K3 K1-K3 K1-K3	12	1 -3

	3.1 பாடல் அடி 1-35			
3	இலக்கிய வரலாறு பாடம் தழுவியது.	K3, K4	8	3 -4
4	4.1.நாடகம் – பாரி மகளிர் ஆசிரியர் சரளா இராஜகோபாலன்	K4	10	4
5	1. கடிதம் எழுதுதல் 2. விளம்பரம் தயாரித்தல்.	K5	6	5

ghl E}y; - rq;f ,yf;fpaம் jkpo;j;Jiw ntspaPL

ghh;it E}y;fs;

1. ,uhkuj;jpdk;> FWe;njhif> fq;if Gj;jf epiyak;> nrd;id> Kjy; gjpg;G (2002).
2. GypA+h;f;Nfrpfd;> ew;wpiz> fq;if Gj;jf epiyak;> nrd;id> Kjy; gjpg;G (2010).
3. GypA+h;f;Nfrpfd;> lq;FWE}W> fq;if Gj;jf epiyak;> nrd;id> Kjy; gjpg;G (2010).
4. GypA+h;f;Nfrpfd;> GwehD}W> fq;if Gj;jf epiyak;> nrd;id> Kjy; gjpg;G (2010).
5. r.Nt. Rg;gpukzpad;> gj;Jg;ghl;L> kzpthrfh; gjpg;gfk;> nrd;id> ,uz;lhk; gjpg;G (2010)
6. jkpoz;zy;> Gjpa Nehf;fpy; jkpo; ,yf;fpa tuyhW>
7. kPdh;rp Gj;jf epiyak;> kJiu> 33 Mk; gjpg;G (2015).
8. சரளா இராஜகோபாலன்;> பாரி மகளிர்;> ஒளிப் பதிப்பகம் சென்னை, Kjy; பதிப்பு (2005)

Continuous Assessment Test

Total Marks: 50

Duration: 1 ½

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1, K2	20
B	nra;As; tpdhf;fs;	K3	20
C	,yf;fpa tuyhW	K4	5
D	jdpegu;f; fbjk; C A-1	K5	5

	tpz;zg;gf; fbjk; C A-2		
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End Semester Examination Total Marks: 100 Duration: 3 Hours

SECTION	QUESTION PAPER PATTERN	CL	MARKS (100)
A	midj;J tpdhf;fSf;Fk; tpilasp> rhpahd tpiliaj; Njh;e;njLj;J vOJf	K1	20
B	FWtpdhf;fs;> ,lk; Rl;bg; nghUs; tpsf;fk; jUf.	K2	20
C	nra;As; tpdhf;fs;	K3	30
D	நாடகம், ,yf;fpa tuyhW	K4	20
E	fbjk; vOJjy;> tpsk;guk; jahupj;jy;	K5	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TM/FC/VS44												
IV	Course Title: Vocational Sanga Ilakkiyam												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	1	1	1	1	2	2	2	2	2	1	1
CO 2	1	1	2	2	2	2	2	2	2	3	3	1	2
CO 3	1	2	2	2	2	2	2	2	2	3	3	1	2
CO 4	2	1	2	2	2	2	2	2	2	3	3	1	2
CO 5	2	2	2	2	2	2	2	2	1	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

General Elective Course Offered by the Department of Tamil to
B.Voc Degree Programme

SYLLABUS

(Effective from the academic year 2023-2024)

BASIC TAMIL-I (mbg;gilj; jkpo; - I)

CODE :23TM/UE/BT12

CREDITS :2

L T P :2 0 0

TOTAL TEACHING HOURS :26

jhspd; Nehf;fk; :

- **jkpo; nkhopia mwpahj khzth;fSf;Fj; jkpio mwpKfk; nra;jy;.**
- **jkpo; nkhopiag; NgRtjw;Fk; vOJtjw;Fk; fw;Wf; nfhLj;jy;.**
- **jkpo;r; nrhw;fisg; gpiopd;wp thrpj;jy; vOjg; gapw;rp mspj;jy;.**

jhspd; gad;fs;

COs	DESCRIPTION	CL
CO1	jkpo;nkhopia mwpahj khzth;fs; jkpio mwpe;Jnfhs;Sjy;	K1
CO2	jkpo;nkhopiag; NgRtjw;Fk; vOJtjw;Fk; fw;wy;	K2
CO3	jkpo;r; nrhw;fisg; gpiopd;wp thrpj;jy; kw;Wk; vOJjy;	K3

UNIT	CONTENT	CL	HRS	CO
1.	1.1 Ngr;Rj; jkpo; mwpjy; 1.2 vOj;Jj; jkpo; mwpjy; 1.3 md;whl tho;tpy; gad;gLj;Jk; nrhw;fis vspa Kiwapy; mwpKfk; nra;jy;	K1-K3	8	1 -3

UNIT	CONTENT	CL	HRS	CO
2.	2.1 jkpo; nkhopapy; capu; vOj;Jf;fis vOjf; fw;Wf;nfhLj;jy;; 2.2 nka; vOj;Jf;fisf; fw;Wf;nfhLj;jy; 2.3 capu;nka; vOj;Jf;fis vOjf; fw;Wf;nfhLj;jy;	K1-K3	10	1 -3
3.	3.1 XnuOj;Jr; nrhw;fisf; fw;Wf;nfhLj;jy; 3.2 <nuOj;Jr; nrhw;fisf; fw;Wf;nfhLj;jy; 3.3 jkpopy; Ngr> vOjg; gapw;rp mspj;jy;	K1-K3	8	1 -3

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (50)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1 –K3	10
B	nghUj;Jf> epug;Gf	K1 –K3	10
C	FWtpdh	K1 –K3	5

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;G Kiw

kjpg;ngz; : 50

kjpg;ngz; : 25 (m) vOj;Jj; Njh;T

kjpg;ngz; : 25 (M) tha;nkhopj; Njh;T

STELLA MARIS COLLEGE (Autonomous), CHENNAI – 600 086

**General Elective Course Offered by the Department of Tamil to
B.Voc Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

BASIC TAMIL-II (mbg;gilj; jkpo; - II)

CODE:23TM/UE/BT22

CREDITS:2

LTP :2 0 0

TOTAL TEACHING HOURS:26

jhsdpd; Nehf;fk;:

- **jkpopy; njhlh;fis mikf;fg; gapw;Wtpj;jy;.**
- **jkpopy; ciuahlf; fw;Wf;nfhLj;jy;**
- **vspikahd jkpo; ,yf;fpaq;fis thrpj;jy; gapw;rp mspj;jy;.**

jhsdpd; gad;fs; :

COs	DESCRIPTION	CL
CO1	kpopy; njhlh;fis mikf;ff; fw;wy;	K1
CO2	jkpopy; ciuahl mwpjy;	K2
CO3	jkpo; ,yf;fpaq;fis thrpj;jy;	K3

UNIT	CONTENT	CL	HRS	CO
1.	<p>1.1 capu;f; Fwpy;> capu; neby; - gapw;rp mspj;jy;</p> <p>1.2 ty;ypdk;> nky;ypdk;> ,ilapdk; - mwpar; nra;jy;</p> <p>1.3 vspace nrhw;fspd; top xyp> vOj;J NtWghL mwpar; nra;jy;</p>	K1-K3	8	1 -3
2	<p>2.1 gad;juf;\$ba nghJthd ciuahly;</p> <p>2.2 vspace njhluikg;Gg; gapw;rp</p> <p>2.3 Ngr;R tof;Fr; nrhw;fSf;F ey;y jkpo;r; nrhw;fisf; fw;Wf;nfhLj;jy;</p>	K1-K3	10	1 -3
3	<p>3.1 jkpopy; thrpj;jy;> nghUs; \$wy;> Mq;fpyj;jpYs;s rpW thu;j;jifis nkhopngau;j;jy;</p> <p>3.2 ghujpahupd; ghg;gh ghl;L> Mj;jp#b fw;Wf;nfhLj;jy;</p> <p>3.3 jkpopy; njhlu; thrpj;Gg; gapw;rp mspj;jy;</p>	K1-K3	8	1 -3

Continuous Assessment Test Total Marks : 25 Duration : 45mins

SECTION	QUESTION PAPER PATTERN	CL	MARKS (25)
A	midj;J tpdhf;fSf;Fk; tpilasp.	K1 –K3	10
B	ngHUj;Jf> epug;Gf	K1 –K3	10
C	FWtpdh	K1 –K3	5

njhlu;kjpg;gPl;Lj; Nju;T tpdh mikg;G Kiw

kjpg;ngz; : 50

kjpg;ngz; : 25 (m) vOj;Jj; Njh;T

kjpg;ngz; : 25 (M) tha;nkhopj; Njh;T



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

UG
SOCIAL AWARENESS PROGRAM /
SERVICE LEARNING
(CHOICE BASED CREDIT SYSTEM)

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

Undergraduate Programmes

SOCIAL AWARENESS

(Effective from the academic year 2023 – 2024)

Guidelines for the conduct of the course

COURSE DESCRIPTION

The Social Awareness course (SA) of the College enables students to understand and react appropriately to both the problems and needs of society and the interpersonal struggles of the members of the communities around them. It trains and sensitises them to become aware of their environment, the different social contexts in which they interact, as well as interpret the emotions of people with whom they communicate. Students will improve their skills in connecting with others verbally and non-verbally, acquire higher levels of emotional intelligence, the ability to empathise with others and understand the roles they play in society.

OBJECTIVES OF THE COURSE

- To enable students to respect and appreciate cultural diversity
- To foster and nurture the ability to empathise with others and individual selves
- To facilitate the acquisition of the attitudes, skills, and knowledge to function in different environments and among different communities
- To enable them to communicate effectively and appropriately in different social contexts

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Understand diverse culture and social norms
- Respond in appropriate ways to the problems and interpersonal struggles of members of different communities
- Empathise with issues and problems faced by people and groups from diverse backgrounds and cultures
- Identify resources to meet with the challenges of diversity and difference
- Understand social justice issues
- Evaluate impact of their interactions and work with communities

Service orientation Guidelines:

- Students are expected to earn 2 credits for SAP
- Departments may choose any one of the given course topics
- Classroom sessions to be activity-based wherever possible
- Visits to communities is a course requirement
- Students are expected to engage and interact with the community, reflect on their experiences and make notes in their journals
- Class room sessions and Field Visits to relevant communities form the major components of the course. The faculty facilitator is expected to arrange for the visits to the community with the help of the SAP Coordinator. They may choose to go either in the morning or afternoon. If in the morning (Aided Sections) they may choose a day on which there are no common class hours (Language, English, GE) and exchange hours with the major subjects teachers. The same protocol holds for Shift II. They may choose a day on which there are no common class hours in the afternoon (Language, English, GE) and exchange hours from the major subject teachers.
- Faculty facilitators are expected to prepare the students for field visit to the community with specific background information.
- Activities to be completed three weeks before the end of the semester.
- Faculty to submit a report on the entire programme to the SAP coordinator and a copy to be retained with the department. (Please include photographs (geotagged), letters, videos, the impact assessment report {community and student} self –reflection journals (two/three samples) and any other additional material that would support the report)

They may request the SA Coordinator for resource persons for inputs on specific areas.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**Social Awareness / Service Learning****COURSES OF STUDY****(Effective from the academic year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Social Awareness Courses									
23 _ /SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23 _ /SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23 _ /SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23 _ /SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23 _ /SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23 _ /SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23 _ /SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23 _ /SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23 _ /SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Service Learning Courses									
23HS/SL/HA52	Heritage Awareness	2	2	0	0	-	50	-	100
23FA/SL/AC52	Art for Children	2	2	0	0	-	50	-	100
23CH/SL/PA52	Pollutants and Adulterants	2	2	0	0	-	50	-	100
23BT/SL/PP52	Plants and People	2	2	0	0	-	50	-	100
23ZL/SL/HH52	Health and Hygiene	2	2	0	0	-	50	-	100
23ZL/SL/DC52	Faunal Diversity and Conservation	2	2	0	0	-	50	-	100
23CS/SL/CB52	Computer Basics	2	2	0	0	-	50	-	100

__refers department. Ex. 23HS/SA/RD52

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Course on Social Awareness Offered to students of
B.A. / B.V.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023 – 2024)

RIGHTS OF THE DIFFERENTLY ABLED

CODE: 23__ /SA/RD52

**CREDITS: 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- To enable students to gain knowledge about different types of disabilities
- To help them develop an attitude of respect and dignity towards persons with disabilities
- To introduce them to key ideas in the Rights of Persons with Disabilities Act 2016

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Understand the various kinds of disabilities
- Demonstrate knowledge about various rehabilitation measures for persons with disabilities
- Work with persons living with disabilities
- Describe key ideas in the Rights of Persons with Disabilities Act 2016

Unit 1

Introduction

(7 hours)

- 1.1 Concept of disability and impairment –WHO definition, causes and magnitude of various disabilities, their impact on persons with disability and their families
- 1.2 Types of disability – physical, sensory, intellectual, multiple disabilities, learning disabilities, developmental disabilities, psychosocial disability process of rehabilitation
- 1.3 Early identification, education, vocational rehabilitation and social inclusion and empowerment within the family and community

Unit 2

Legal Provisions for the Disabled and Rehabilitation for the Disabled (7 hours)

- 2.1 Persons with Disability Act, 2016
- 2.2 Role of Government and Non-Government Institutions working for the differently-abled
- 2.3 Needs and problems of persons with disability and their families
- 2.4 Role of Community Based Rehabilitation (CBR) for the differently-abled

Unit 3

Field Work

(12 hours)

Field Visit to Government and Non-Government Institutions and schools for the disabled

BOOKS FOR REFERENCE

Clark Joan Simeon. Disabled citizens London: George Allen & Unwin, 1970.
Gajendragadkar S.N. Disabled in India USA: California U P, 1983.
Narasimhan M.C. Disability a Continuing Challenge's: Michigan U P, 1989

PATTERN OF ASSESSMENT**No End Semester Examination****Evaluation****Total Marks: 50**

Reports of visits / Class Presentations / Reflection Journal

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Course on Social Awareness Offered to Students of
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SYLLABUS

(Effective from the academic year 2023 – 2024)

CHILD RIGHTS

CODE: 23__ /SA/CR52

**CREDITS: 2
TOTAL HOURS:26**

OBJECTIVES OF THE COURSE

- To understand the scope and implications of children's rights nationally and internationally
- To understand social issues related to children and the institutions working for children
- To identify the different interventions and actors involved in child protection

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Analyse the impact of violence, exploitation and abuse on children's physical and emotional development
- Identify critical issues concerning children's rights
- Identify strategies and programmes for the implementation of children's rights

Unit 1

Introduction

(7 hours)

- 1.1 Defining the concept of child and categories of children
 - 1.1.2 Street Children; Destitute Children; Abandoned Children; Orphan; Sexually Abused, Children; Refugee Child, Migrant Children, Tribal Children, Children living with HIV / AIDS, Children in Conflict with the Law
- 1.2 Causes and consequences of violence against children
 - 1.2.1 Child Labour
 - 1.2.2 Child Prostitution
 - 1.2.3 Child Abuse
- 1.3 Child Rights: The legal foundation of children's protection and human rights

Unit 2

Interventions and Legal Provisions

(7 hours)

- 2.1 Interventions
 - 2.1.1 Social interventions
 - 2.1.2 Community-based interventions (Child Line)
 - 2.1.3 Institutional Intervention:, NGOs and INGOs working for Children– CRY, ActionAid, UNICEF, UNDP
 - 2.1.4 Awareness and advocacy on Services for children.

- 2.2 Legal Provisions
 - 2.2.1 Child Labor (Prohibition and Regulation) Act, 1986
 - 2.2.2 The Juvenile Justice (Care and Protection of Children) Act, 2015
 - 2.2.3 The Prohibition of Child Marriage Act, 2006
 - 2.2.4 The Right of Children to Free and Compulsory Education, Act, 2009
 - 2.2.5 The Protection of Children from Sexual Offences Act, 2012 (POCSO)
 - 2.2.6 Convention on the Rights of Children (UNCRC)

Unit 3

Field Work

(12 hours)

Field Visit to Government and Non-Government Institutions/community/schools.

BOOKS FOR REFERENCE

Bajpai, Asha. Child Rights in India: Law, Policy and Practice. India: Oxford, 2006.

Brotherton Graham Cronin Mark. Working with Vulnerable Children, Young People and Families. UK:Routledge,2013

Sarada,D. Rajini. N. Child Rights and Young Lives: Theoretical Issues & Empirical Studies. India: Discovery, 2009

PATTERN OF ASSESSMENT

No End Semester Examination

Evaluation

Total Marks: 50

Reports of visits / Class Presentations /Reflection Journal

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

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SYLLABUS

(Effective from the academic year 2023 – 2024)

CIVIC AWARENESS

CODE: 23___/SA/CA52

**CREDITS: 2
TOTAL HOURS:26**

OBJECTIVES OF THE COURSE

- To enable students to gain knowledge about the importance of civic awareness
- To enable them to acquire the knowledge and attitudes that will make them responsible citizens
- To enable them to contribute for empowerment of society

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Apply essential aspects of civic engagement (such as observation, reflection and dialogue).
- Recognise the potential for individual to bring about change
- Understand the role and impact of government policies on society
- Contribute to solving civic issues within the community

Unit 1

Introduction

(10 hours)

- 1.1 Introduction to Civic Awareness
- 1.2 Rights and Responsibilities, citizenship, electoral participation, volunteerism, activism and advocacy
- 1.3 Basic Understanding of the Indian Constitution – Preamble- Fundamental Rights - Rights and Duties of an Indian Citizen, Right to Information and Right to Public Services

Unit 2

Governmental and Non-governmental Initiatives

(4 hours)

- 2.1 Initiatives in Local Governments: Social Audit, Citizen Charter, Citizen Report Card
- 2.2 Social Accountability
- 2.3 Government and Non-Government organisations working for important areas: Health, Sanitation, Energy, Waste Management, Food and Consumer Protection

Unit 3**Field Work****(12 hours)**

Field Visit to Government and Non-Government Institutions for urban local governance/Schools and Community visits.

BOOKS FOR REFERENCE

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Jacob. "Energy Policy", Nova publisher, 2009. Smith. C.B. Energy "Management Principles", Pergamon Press, 2006.

Bharucha, E. Textbook of Environmental Studies. Hyderabad: Universities Press, 2005

Sunil Khanna, Krishnamohan, Wealth from waste, Tata Energy Research Institute, 2006

PATTERN OF ASSESSMENT**No End Semester Examination****Evaluation****Total Marks: 50**

Reports of visits / Class Presentations / Reflection Journal

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SYLLABUS

(Effective from the academic year 2023 – 2024)

HEALTH AND WELLBEING

CODE: 23__ /SA/HW52

**CREDITS: 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- To understand the concept of health and its importance for wellbeing
- To understand the factors affecting health
- To familiarise students with various health problems and its impact
- To familiarise students with basic concepts of AYUSH
- To acquaint students with Government and non-governmental health care services

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Understand the importance of health and wellbeing
- Describe the different factors influencing health and wellbeing
- Understand basic concepts in AYUSH
- Identify the different Government and non-governmental Health Care Services

Unit 1

Introduction

(8 hours)

- 1.1 Definitions and Concepts: Health and Fitness, Hygiene, Nutrition, Malnutrition, Under-nutrition, Disease, Mental Health, Well Being, Balanced Diet
- 1.2 Primary Health Care, Public Health Care, Health Problems in India, Environment and Health
- 1.3 Overview of Alternative systems of Medicine, AYUSH (Ayurveda, Yoga, Unani, Siddha, Homeopathy)
- 1.4 Major Health Problems Related to Women and Children

Unit 2

Health Care Schemes and Institutions

(6 hours)

- 2.1 Health Care Services and Programmes – ICDS, Mid-day meal Scheme, Nutrition on Wheels, Applied Nutrition Programme
- 2.2 Government Health Care Schemes
- 2.3 Organisations - WHO, Indian Red Cross Society, ICMR, CSWB Hospitals (Types)
- 2.4 Health and Medical Insurance

Unit 3**Field Work****(12 hours)**

Field Visit to Urban and Rural Communities/Schools/Government and Non-Government Institutions working for Health Care Services

BOOKS FOR REFERENCE

Park, J., E., and Park, K, Textbook of Preventive and Social Medicine. Jabalpur: Banarsidas.

Bajpee. Textbook of Preventive and Social Medicine. New Delhi: Jaypee Brothers Medical Publishers, 1995.

Park, K. Textbook of Prevention and Social Medicine. Jabalpur: Banaridas, 2011.

Web Resources

www.health.com

www.aarogya.com

PATTERN OF ASSESSMENT**No End Semester Examination****Evaluation**

Reports of visits / Class Presentations / Reflection Journal

Total Marks: 50

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Course on Social Awareness Offered to Students of
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SYLLABUS

(Effective from the academic year 2023 – 2024)

MENTAL HEALTH

CODE:23__ /SA/MH52

**CREDITS: 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- To introduce students to the basic concepts related to mental health
- To create self-awareness and understanding among students on various factors impacting mental health
- To create awareness and understanding among students on rehabilitation of persons with mental health issues
- To create awareness of various laws and institutions working for mental health and rehabilitation of persons with mental health issues

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Describe concepts relating to mental health issues
- Understand how attitudes towards mental health can be changed
- Exhibit understanding and empathy in dealing with persons with mental health issues
- Understand various laws and relating to persons with mental health issues
- Exhibit knowledge about institutions working in the area of mental health rehabilitation

Unit 1

Introduction

(7 hours)

- 1.1 Definitions, concepts-Mental health and wellbeing characteristics of a mentally healthy person,
- 1.2 Factors influencing mental health
- 1.3 Brief overview of mental illness
- 1.4 Basic information on–Life Style and Illness, Myths, Misconceptions about Mental Illness, Stigma and Discrimination

Unit 2

Rehabilitation and Law

(7 hours)

- 2.1 NGOs and institutions working for rehabilitation
- 2.2 Types of rehabilitations, Vocational training, Employment, Working with families, community – based rehabilitation
- 2.3 Ethics in Mental Health
- 2.4 Law and Mental Health

2.4.1 Mental Health Act, 1987

2.4.2 Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act, 1995

Unit 3

Field Work

(12 hours)

Field Visit to Government and Non-Government Institutions working for mental health/Visit to schools

BOOKS FOR REFERENCE

Kirsh, Steven, Children, Adolescents and Media Violence. London: Sage, 2006Singhal, Suhila.

Dua Pratibha, Budding Teens-Understanding Adolescence. New Delhi. Atlantic Publishers.2010.

Strasburger. Victor C, Wilson, Barbara, J. Children Adolescents and the Media. New Delhi. Sage Publications.2006.

PATTERN OF ASSESSMENT

No End Semester Examination

Evaluation

Total Marks: 50

Reports of visits / Class Presentations / Reflection Journal

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

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SYLLABUS

(Effective from the academic year 2023 – 2024)

RURAL REALITIES

CODE: 23__ /SA/RR52

CREDITS: 2

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To enable students to gain knowledge about rural realities and problems in rural communities
- To enable them to understand the local self-administration of rural development and various development agencies working for rural development
- To help them learn about community development programmes in India and policies relating to them

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Articulate the socio-economic conditions of the people in the community
- Assess the needs and problems of the people in the community
- Understand various community development programmes

Unit 1

Introduction

(7 hours)

- 1.1 Rural Community Meaning, Characteristics: Types of Villages: Panchayat, Rural
- 1.2 Community Problems: Overview of Socio-Economic Problems - Poverty, Illiteracy, Financial Exclusions, Unemployment, Problems related to Agriculture, Health and Problems Related to Energy, Water and Sanitation
- 1.3 Gender issues, Issues related to Women and Children.

Unit 2

Programmes

(7 hours)

- 2.1 Community development programmes across the various sector in India: ICDS, MGNREGS, IRDP, PMGY, PMGSY, DIKSHA, NRHM, Indra Awas Yojana (IAY) –
- 2.2 Role of Voluntary Agencies in Rural Development and other Civil Society and NGOs in Rural Development
- 2.3 Corporate Social Responsibility (CSR) and Rural Community Development

Unit 3

Field Work

(12 hours)

Field Visit to Government and Non-Government Institutions working for Rural Communities /Visit to Schools/ communities

BOOKS FOR REFERENCE

Meier, G. M., & Rauch, J. E. Leading issues in economic development. New York: Oxford University Press. (2005).

Mishra & Puri. Economics of Development and Planning. New Delhi: Himalaya, 2017.

PATTERN OF ASSESSMENT**No End Semester Examination****Evaluation**

Reports of Visits / Class Presentations / Reflection Journal

Total Marks: 50

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

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SYLLABUS

(Effective from the academic year 2023 – 2024)

SOCIAL AND ECONOMIC ISSUES

CODE:23__ /SA/SE52

**CREDITS: 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- To develop in students an awareness of social and economic issues in India
- Enable the students to understand the present social and economic situation of the country
- To acquaint students with the legislations and programmes on social and economic issues

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Understand contemporary social and economic issues and debates about these issues
- Critically analyse the social and economic issues affecting rural and urban societies
- Demonstrate an understanding of various schemes and provisions

Unit 1

Introduction

(7 hours)

- 1.1 Definition of Society, Social System in India
- 1.2 Concept of Development and Underdevelopment
- 1.3 Social Stratification based on Caste, Class, Gender, Race, Religion
- 1.4 Clean Water and Sanitation
- 1.5 Gender Equality
- 1.6 Quality Education
- 1.7 Peace and Empowerment
- 1.8 Unemployment and Underemployment

Unit 2

Legislation and Programmes to address Social and Economic Issues (7 hours)

- 2.1 Role of State and Civil Society –Constitutional Provisions - Important Legislation to Protect Human Rights and RTI Act
- 2.2 Micro Small Medium Enterprises Act
- 2.3 Khadi and Village Industries Commission

Unit 3

Field Work

(12 hours)

Field Visit to Government and Non-Government Institutions /Rural and Urban communities

BOOKS FOR REFERENCE

Agrawal, A.N. Indian Economy Problem of Development and Planning. New Delhi: New International, 2010.

Datt, R. and Sundaram. K.P.M. Indian Economy. New Delhi: Sultan Chand, 2014.

Dhar, P.K. Indian Economy. New Delhi: Kalyani Publishers, 2010.

Desai, A.R., Rural Sociology in India Bombay, Popular Prakashan 1997. Doshi, S.L. and Jain P.C. Rural Sociology. Jaipur, Rawat Publications 1999

PATTERN OF ASSESSMENT**No End Semester Examination****Evaluation**

Reports of visits / Class Presentations / Reflection Journal

Total Marks: 50

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

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SYLLABUS

(Effective from the academic year 2023 – 2024)

URBAN REALITIES

CODE: 23__ /SA/UR52

**CREDITS: 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- To enable students to understand urban social systems and their problems and the change processes in these communities
- To help them gain knowledge on the issues and their implications in urban communities

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Demonstrate a broad understanding of urban realities
- Demonstrate critical thinking and judgment in identifying and solving problems with intellectual independence
- Demonstrate sensitivity and readiness to share their knowledge, experience, and demonstrate capabilities with the marginalised and oppressed in their communities

Unit 1

Introduction

(7 hours)

- 1.1 Urban Community: Meaning, Suburban, Under Developed Areas,
- 1.2 Urban Problems (Housing, Pollution, Homeless, Shelter-less and Street Vendors, Waste Management, Water and Sanitation Issues, Problems Related to Women, Children, Youth and Elderly)
- 1.3 Drug Addiction
- 1.4 Commercial Sex Workers
- 1.5 Migration
- 1.6 Juvenile Delinquency
- 1.7 Health
- 1.8 Urban Employment
- 1.9 Urban Settlement
- 1.10 Problems with Unorganized Sector

Unit 2

Policies and Programmes

(7 hours)

- 2.1 Urban Community Development Policies and Programmes
- 2.2 Urban Planning, Housing and Urban Development Corporation (HUDCO) and Jawaharlal Nehru National Urban Rural Mission
- 2.3 Role of NGOs in urban development
- 2.4 Role of Municipality and Corporation
- 2.5 Urban Health Mission.

Unit 3**Field Work****(12 hours)**

Field Visit to Government and Non-Government Institutions /Schools/Urban communities

BOOKS FOR REFERENCE

Datt, Ruddar and K.P.M. Sundaram, Indian Economy, New Delhi: S. Chand and Co., 2010

Dhar P.K., Indian Economy, Ludhiana: Kalyani Publishers, 2010

Jhingan M.L. The Economics of Development and Planning, New Delhi: Vrinda Publications (P) Ltd., 2007.

Kuchhal, S.C. and Puri, The Industrial Economy of India, New Delhi: Chaitanya Publishing House, 1996.

PATTERN OF ASSESSMENT**No End Semester Examination****Evaluation****Total Marks: 50**

Reports of Visits / Class Presentations / Reflection Journal

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SYLLABUS

(Effective from the academic year 2023 – 2024)

CARE OF SENIOR CITIZENS

CODE: 23__ /SA/SZ52

CREDITS: 2

TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To understand who caregivers are and the role they play in caring for the Senior Citizens
- To understand the process of ageing and its associated problems
- To understand the social and emotional problems of the Senior Citizens

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Understand the role of caregivers
- Understand the various problems of Senior Citizens
- Identify the needs of the Senior Citizens
- Demonstrate an understanding of various rehabilitation measures for Senior Citizens
- Describe the policies and legal provisions for Senior Citizens

Unit 1 Introduction (10 hours)

- 1.1 Definition, meaning and role of care-givers
- 1.2 Characteristics of old age
- 1.3 Process of ageing: Cognitive, physical, psychological and social
- 1.4 Needs during old age- physical needs, healthcare needs, and psychological, social and economic needs
- 1.5 Problems of the aged- violence, neglect, abuse, crimes, empty nest syndrome, physiological and psychological problems of Senior Citizens

Unit 2 Policies and Legal Provisions for the Senior Citizens (4 hours)

- 2.1 National policies and programmes for Senior Citizen
- 2.2 Constitutional and legal provisions for the Senior Citizens

Unit 3 Field Work (12 hours)

Field Visit to Government and Non-Government Institutions for Senior Citizens

BOOKS FOR REFERENCE

Binstock, R.H and Shahas, E Handbook of aging and the Social Sciences 1976 Van Nostrand Reinhold

Desal, K.G Aging in India 1982 TISS Series 52

PATTERN OF ASSESSMENT
No End Semester Examination

Evaluation

Reports of visits / Class Presentations /Reflection Journal

Total Marks: 50

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600086

Undergraduate Programmes

SERVICE LEARNING

(Effective from the academic year 2023 – 2024)

Guidelines for the Conduct of the Course

COURSE DESCRIPTION

Service Learning (SL) is a course-based experiential learning that engages students in service to the community as an integrated aspect of a course. Students participate in an organised service activity that meets identified community needs and integrates the service activity to gain further understanding of course content, a broader appreciation of the discipline and an enhanced sense of personal values and civic responsibility. This method is seen as an effective way to enable students to achieve required learning outcomes through service to the community. Service Learning seeks to advance the goals of the curriculum.

The course promotes mutual learning experiences for both students and members of the community. The focus is on students reflecting on their experience of doing and learning i.e. active learning.

OBJECTIVES OF THE COURSE

- To enhance academic learning by challenging students to apply their subject knowledge and critical thinking to real-world situations
- To increase understanding of theoretical issues being addressed in the classroom
- To direct the students into practical settings where the objective is to serve the community
- To encourage reflection as a self-guided method for change and learning
- To develop skills necessary to establish and maintain relationship with communities
- To enable students to help communities learn and benefit through their active service inputs and facilitation

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Make strong connections between curricular and experiential learning
- Reflect on how thoughts and actions impact the development of supportive and inclusive communities
- Reflect and document connections between knowledge and skills resulting from classroom learning and service-learning experiences
- Demonstrate skills in establishing and maintaining relationships with communities
- Evaluate impact/benefit of SL activities and interactions in communities

Stages for Service Component

- Preparation for meeting community needs with the curriculum of selected course for the SL pedagogy
- Community interaction
- Reflection and learning on the service component

Students will get two credits on completion.

Guidelines for conduct of course

SL should be utilised as pedagogy, not just a learning tool. It should be integrated into the course/module content and the class activities, with clearly identified learning outcomes and assessment methods.

A community partner/s should be identified, their needs assessed, and the appropriate partner selected. Faculty members should attend Partnership Events hosted by the SL Coordinator in order to cultivate and reinforce community partnerships.

Learning should include preparing the students to network, establish contact and interact with partner communities through service activities.

Faculty should prepare students for active engagement in the community and encourage them to **reflect critically** on their experience. Faculty should use rubrics to evaluate students' progress before, during and after the service learning programme.

Students should leave the service learning experience with a deeper and even changed understanding of themselves, the communities they work with, and their potential to participate in the civic life of communities, country, and world.

Service Learning as pedagogy creates the opportunity for students to try and live out the core principles and values of the institution.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE BRANCH – IA - HISTORY AND TOURISM

SERVICE LEARNING

SYLLABUS

(Effective from the academic year 2023-2024)

HERITAGE AWARENESS

Awareness of Chennai's architectural heritage

CODE:23HS/SL/HA52

CREDITS: 2
TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To enable students gain knowledge about the architectural heritage of Chennai and ways of preserving it.
- To provide them with practical experience of heritage conservation campaigns
- To help them acquire knowledge about institutions and organizations involved in the conservation of Chennai's architectural heritage.
- To create awareness of this heritage among the school students of Chennai through interaction with selected schools
- To develop teamwork, organisation, and communication skills necessary to work with communities and implement conservation strategies.
- To equip students with skills to envisage, plan and work out sustainable strategies for heritage conservation

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Understand the value of heritage and the challenges involved in practical conservation
- Make strong connections between the architectural heritage students study about as part of their curriculum and their experiences.
- Explain ideas and concepts to school children to introduce them to Chennai's architectural heritage and what is needed for its conservation
- Adapt classroom learning to create a community-based programme of awareness and conservation of architectural heritage.
- Collaborate with and support organisations/institutions operating in the field of heritage conservation.

Unit 1

Introduction to Service Learning (2hours)

- 1.1 Service Learning Principles- engagement, reflection, reciprocity, public dissemination
- 1.2 Meaning of community and understanding of community dynamics
- 1.3 Project planning stages and ethical concerns

Unit 2

Activity-based preparation

(6 hours)

2.1 Importance of Heritage and Conservation

2.2 Heritage of Chennai City

2.3 Heritage Conservation Organisations in Chennai (INTACH, Madras Inherited, Archaeological Survey of India etc.)

Unit 3

Field Work

Heritage Conservation activities (schools, communities, heritage sites, etc.) **(13 hours)**

Impact analysis; Documentation; Reflection, Recommendation and Follow-up **(5 hours)**

BOOKS FOR REFERENCE

Chitty, Gill (Ed.). *Heritage, Conservation, and Communities: Engagement, Participation, and Community Building*. Routledge, New York, 2017.

Batra, N.L. *Heritage Conservation: Preservation and Restoration of Monuments*. Aryan Books, New Delhi, 1997.

WEB RESOURCES

<http://www.intach.org/>

<https://madrasinherited.in/home/>

<http://asiegov.gov.in/>

PATTERN OF ASSESSMENT

No End-Semester Examination

Evaluation

Total Marks: 50

Journal Writing / Class Presentations (individual or group) / Documentation (photos with captions, short reports in portfolio Format)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.V.A. DEGREE: BRANCH X – VISUAL ARTS

SERVICE LEARNING

SYLLABUS

(Effective from the academic year 2023-2024)

ART FOR CHILDREN

CODE: 23FA/SL/AC52

CREDITS: 2
TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To understand the relevance of service learning
- To explore the scope of engaging with institutions/organisations
- To acquire knowledge about teaching art to children
- To develop skills necessary to work with children
- To develop creative skills in art/design activities for children

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Make strong connections between curricular and experiential learning
- Employ critical thinking skills in a variety of contexts
- Reflect and document connections between knowledge and skills, resulting from classroom learning and service-learning experiences
- Work with organisations/institutions operating for children
- Plan and implement art/design activities for children

Unit 1

Introduction to Service Learning (2 hours)

- 1.1 Service Learning Principles- engagement, reflection, reciprocity, public dissemination
- 1.2 Meaning of community and understanding of community dynamics
- 1.3 Project planning stages and ethical concerns

Unit 2

Art/design activities for community (6 hours)

Ideation, planning and preparatory work

Unit 3

Implementation (18 hours)

- 3.1 Visits to the field/community
- 3.2 Impact analysis and documentation

PATTERN OF ASSESSMENT

No End Semester Examination

Evaluation:

Total Marks: 50

Journal writing/class presentation/participation in and contribution to art/design activity

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH IV – CHEMISTRY

SERVICE LEARNING

SYLLABUS

(Effective from the academic year 2023 - 2024)

POLLUTANTS AND ADULTERANTS

CODE: 23CH/SL/PA52

**CREDITS: 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- To enable students to acquire knowledge about adulterants and spread the awareness to communities
- To help them, develop skills and present basic inputs on pollutants and their harmful effects
- To enable them envisage, plan and work out strategies in functioning with communities sustainably.

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Enhance their classroom learning in the subject
- Employ critical thinking skills on importance of air, soil and water quality and management
- Understand the common adulterants and pollutants and apply this knowledge in daily life
- Apply their learning in real life situations and help communities learn
- Demonstrate skills in establishing and maintaining relationship with communities
- Apply the knowledge acquired about the services available for the communities they work with

Unit 1

Introduction to Service Learning (2 hours)

- 1.1 Service Learning Principles - engagement, reflection, reciprocity, public dissemination
- 1.2 Meaning of community and understanding of community dynamics.
- 1.3 Project planning stages and ethical concerns

Unit 2

Activity-based preparation

(6 hours)

- 2.1 Salient features of PFA Act, Common adulterants in ghee, turmeric powder, chilli powder, sugar, pepper, tea and coffee powder, flour; tests to detect adulteration (Basic principles)
- 2.2 Types of Food contaminants (Pesticide residues, bacterial toxins mycotoxins, seafood toxins, metallic contaminants, residues from packaging material)
- 2.3 Types of pollution – water, air and soil; types of pollutants-sources and their effects
Gaseous pollutants - Oxides of carbon, sulphur, nitrogen, particulate matter
Water pollutants-Biological agents, physical agents and chemical agent
Eutrophication - biomagnification and bioaccumulation
Soil Pollutants- Pesticides, biomedical waste and e-waste

Unit 3

Field Work

(13 hours)

Includes visits to the field/community

Impact analysis; Documentation; Reflection and Recommendation (5hours)

BOOKS FOR STUDY

Swaminathan Geetha and Mary George. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham, 2010.

Mendham J., Denny R.C., Barnes J.D and Thomas M. *Vogel's Text Book of Quantitative Chemical Analysis*, London: Pearson Education, 2002.

BOOKS FOR REFERENCE

Swaminathan, M. *Handbook of Food and Nutrition*. Bangalore: Bangalore Printing and Pub, 2001.

Luxmy Begum, *Water Pollution: Causes, Treatments and Solutions*. First Edition, October, 2015

JOURNALS

Journal of Food: Microbiology, Safety & Hygiene

Journal of Pollution Effects & Control

WEB RESOURCES

<http://agmarknet.nic.in/adulterants.htm>

<https://www.nrdc.org/stories/water-pollution-everything-you-need-know>

PATTERN OF ASSESSMENT

No End-Semester Examination

Evaluation:

Total Marks: 50

Journal Writing / Class Presentations (individual or group) / Documentation (photos with captions, short reports in portfolio format)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**B.Sc. DEGREE: BRANCH V. A. PLANT BIOLOGY AND
PLANT BIOTECHNOLOGY**

SERVICE LEARNING

SYLLABUS

(Effective from the academic year 2023 - 2024)

PLANTS AND PEOPLE

CODE: 23BT/SL/PP52

**CREDITS: 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- To enable students to become sensitive to the needs of society and communities
- To help them develop skills necessary to establish and maintain relationship with communities
- To equip with skills to envisage, plan and work out sustainable strategies in relation to their course to benefit the community

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Distinguish strong connections between curricular and experiential learning
- Report and document connections between knowledge and skills, resulting from classroom learning and service-learning experiences
- Collaborate with organisations/institutions operating in/for the communities they work with by using their programmes and services.
- Demonstrate skills in establishing and maintaining relationship with communities
- Develop, plan and work out strategies in working with communities

Unit 1

Introduction to Service Learning (2 hours)

- 1.1 Service Learning Principles- engagement, reflection, reciprocity, public dissemination
- 1.2 Meaning of community and understanding of community dynamics.
- 1.3 Project planning stages and ethical concerns

Unit 2

Activity-based preparation (6 hours)

- 2.1 Nutritive and medicinal value of plants: Growing Microgreens, Importance of Indigenous trees.
- 2.2 Ayurveda / Siddha Medicines for Common Ailments:
 - 2.2.1 Preparation of Infusion and Decoction, Mouth wash and Herbal Tooth Powder, Tailam, Churnam, and Leghyam.
 - 2.2.2 Preparation of Herbal Tea and Soups
 - 2.2.3 Facial and Hair Care using Herbal products.

Unit 3**Field Work****(13 hours)**

Includes visits to the field/community

Impact analysis; Documentation; Reflection, Recommendation and follow-up

(5 hours)**BOOKS FOR REFERENCE**

Anil Kumar. Handbook on Medicinal Plants. New Delhi. 2016.

Das, S.N. Medicinal Plants for Health and Wealth. New Delhi: Agrotech. 2006.

Dash, V.B. Ayurvedic Treatment for Common Diseases. New Delhi: Konark, 1978.

Dash, V.B. Fundamental of Ayurvedic Medicine. New Delhi: Konark, 1989.

Dananjay J. Deshpande., Handbook of Medicinal Herbs. Agrobios, 2010.

Duke, J.A. Handbook on Medicinal Herbs. London: CRC, 2002.

Froog, S. Medicinal Plants - Field and Laboratory Manual. New York: International Book
2005. Grewal, R.C. Medicinal Plants. Cambridge: Harvard University, 2000.**PATTERN OF ASSESSMENT****No End Semester Examination****EVALUATION:****TOTAL MARKS: 50**

Journal Writing / Class Presentations (individual or group) / Documentation (photos with captions, short reports in portfolio Format)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Sc. DEGREE: BRANCH VI. A. - ADVANCED ZOOLOGY AND
BIOTECHNOLOGY**

SERVICE LEARNING

SYLLABUS

(Effective from the academic year 2023-2024)

FAUNAL DIVERSITY AND CONSERVATION

CODE:23ZL/SL/DC52

**CREDITS: 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- equip them with skills to envisage, plan and work on sustainable strategies
- To enhance students' academic learning by challenging students to apply their subject knowledge and critical thinking to real-world situations
- To increase their understanding of theoretical issues being addressed in the classroom
- To direct them into practical settings where the objective is to serve the community
- To encourage reflection as a self-guided method for change and learning
- To enable students to acquire and disseminate knowledge about faunal diversity, its documentation and conservation
- To help them develop and disseminate skills necessary to identify and document faunal diversity

To COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Make strong connections between curricular and experiential learning
- Employ critical thinking skills in the context of conservation
- Learn skills for identifying and documenting fauna on campus
- Prepare a compilation of the fauna observed and identified on campus
- Reflect and document connections between knowledge and skills, resulting from classroom learning and service-learning experiences
- Envisage, plan and work on sustainable strategies for sustaining campus fauna

Unit 1

Introduction to Service Learning (2hours)

- 1.1 Introduction to Service Learning - Service to the Community – Learning through service – identifying the community for creating awareness on faunal biodiversity and conservation
- 1.2 What is biodiversity? - Need for biodiversity conservation – Broad classification of biodiversity - Urban biodiversity – Sustaining urban biodiversity

Unit 2

Activity Based Preparation (6hours)

- 2.1 Workshop on faunal survey methodology
- 2.2 Surveys on campuses - Identification of fauna - documentation

Unit 3**Field Work****(13hours)**

Field visits - Sharing methodology and skills with students

Survey of campus habitats and suggestions for conservation – preparation of booklet based on the survey

Self-reflection and analysis - Report of experience

(5hours)**BOOKS FOR REFERENCE**

Ahimaz, Preston (2014): A guide to some urban fauna of India. Madras Naturalists Society, Chennai

Ali, Salim (2017): The book of Indian birds. Bombay Natural History Society

Hill, David, Fasham, Mathew, Tucker, Graham, Shewry Michael and Philip Shaw (eds.).(2005): Handbook of Biodiversity Methods. Survey, Evaluation and Monitoring. Cambridge University Press. New York

Kehimkar, Isaac (2016): Butterflies of India. Bombay Natural History Society

Maiti, Prabodh, K. and Maiti, Paulami (2011). Biodiversity: Perception, peril and preservation. PHI Learning Pvt. Ltd. New Delhi

Smetacek, Peter (2018). A naturalist's guide to the Butterflies of India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. Prakash Books.

PATTERN OF ASSESSMENT**No End-Semester Examination****Evaluation:****Total Marks: 50**

Journal Writing / Class Presentations (individual or group) / Documentation (photos with captions, short reports in portfolio format)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI -600 086

**B.Sc. DEGREE: BRANCH VI A- ADVANCED ZOOLOGY AND
BIOTECHNOLOGY SERVICE LEARNING**

SYLLABUS

(Effective from the Academic Year 2023-2024)

HEALTH AND HYGIENE

CODE:23ZL/SL/HH52

**CREDITS : 2
TOTAL HOURS: 26**

OBJECTIVES OF THE COURSE

- To enhance student's academic learning by challenging students to apply their subject knowledge and critical thinking to real-world situations
- To increase student's understanding of theoretical issues being addressed in the classroom
- To direct the students into practical settings where the objective is to serve the community
- To encourage reflection as a self-guided method for change and learning
- To enable students to become sensitive to the needs of society and communities
- To develop skills necessary to establish and maintain relationships with communities in relation to aspects of health and hygiene
- To equip students with skills to envisage, plan and work on sustainable strategies for communities to engage with in relation to health and hygiene

COURSE LEARNING OUTCOMES

On the successful completion of this course, the students will be able to

- Make strong connections between curricular and experiential learning
- Reflect on how thoughts and actions impact the development of supportive and inclusive communities
- Reflect and document connections between knowledge and skills, resulting from classroom learning and service-learning experiences
- Understand the services and needs of communities in relation to aspects of health and hygiene
- Demonstrate skills in establishing and maintaining relationships with communities
- Envisage, plan and work on sustainable strategies that benefit personal and health of the community

Unit 1

Introduction to Service Learning

(2Hours)

- 1.1 Introduction to Service Learning- Learning through service – Assessment of community needs-Preparation for translating knowledge to community-Modes of presentation- Awareness programmes
- 1.2 Concept of Personal and Environmental hygiene and its impact on health.
- 1.3 Environment and Hygiene: Pollution – Waste management- Clean surroundings.

Unit 2

Activity-based preparation

(6 Hours)

2.1 Communicable diseases: Causative agent-mode of infection and preventive measures for the following diseases:

Air borne – Tuberculosis, Measles, and SARS

Water borne – Amoebiasis, Typhoid, Jaundice, Leptospirosis

Sexually transmitted – HIV-AIDS, Syphilis and Gonorrhoea

Diseases spread by mosquitoes – Malaria, Filariasis and Dengue Fever

2.2 Non- Communicable diseases: Causes, symptoms and management of the following:

Diabetes, Hypertension, Cancer (Oral, breast and Cervical) and Thyroid disorders.

2.3 Women and Health: Hygiene during menstrual period, Birth-Impact of marriages between close relatives.

Unit 3

Field Work

(13 hours)

Visit to community/Schools

Self-reflection, Analysis – Report writing/documentation.

(5 hours)

BOOKS FOR REFERENCE:

Guyton, A.C. (2011). *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co.

Park, J.E. (1991). *Textbook of Preventive and Social Medicine*. Banarsidas Bhanot,.

P. S. Verma and V.K. Agarwal (2017). *Principles of Ecology*. New Delhi: S.Chand

PATTERN OF ASSESSMENT:

No End Semester Examination

Evaluation:

Total Marks: 50

Journal Writing / Class Presentations (individual or group) / Documentation (photos with captions, short reports in portfolio Format)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

BACHELOR OF COMPUTER APPLICATIONS

SERVICE LEARNING

SYLLABUS

(Effective from the academic year 2023 – 2024)

COMPUTER BASICS

CODE:23CS/SL/CB52

CREDITS: 2
TOTAL HOURS: 26

OBJECTIVES OF THE COURSE

- To enable students to become sensitive to the needs of society and communities
- To develop skills necessary to establish and maintain relationships with communities
- To enable students to use their computer skills to teach school students computer basics (operating system, files, folder and components of a computer, basics of word processing)

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

- Make strong connections between curricular and experiential learning
- Reflect and document connections between knowledge and skills, resulting from classroom learning and service-learning experiences
- Demonstrate skills in establishing and maintaining relationship with communities
- Transfer knowledge and skills they have gained in class to new situations within and beyond their academic courses
- Demonstrate knowledge and gain teamwork skills by actively participating in imparting basic computer skills to the community

Unit 1

Introduction to Service Learning

(2Hours)

- 1.1 Service Learning Principles- engagement, reflection, reciprocity, public dissemination;
- 1.2 Meaning of community and understanding of community dynamics.
- 1.3 Project planning stages and ethical concerns

Unit 2

Activity-based preparation

(6 Hours)

Preparation of resource materials and activities to teach

2.1 Components of Computer System

- 2.2 Input/output Devices - Hardware and Software - Connecting keyboard, mouse, monitor and printer to CPU and checking power supply

- 2.3 Operating System - Popular Operating Systems - User Interface - Icons - Common Icons, Status Bar, Using Menu and Menu-selection - File, Folders and Directories – Creating and Renaming of files and folders - Using help - Creating Short cuts
- 2.3 Understanding Word Processing - Opening and Closing of documents - Text creation and manipulation - formatting of text -Table handling - Spell check, language setting and thesaurus -Printing of word document

Unit 3

Field Work

Includes visits to the field/community/schools (13 hours)

Impact analysis; Documentation; Reflection, Recommendation and follow-up. (5 hours)

BOOKS FOR REFERENCE

Weverka, Peter. *Office 2013 All-in-one for Dummies*. John Wiley & Sons, 2013

Channelle, Andy. *Beginning OpenOffice 3*. Apress, 2008

PATTERN OF ASSESSMENT

No End-Semester Examination

Evaluation:

Total Marks: 50

Journal Writing / Class Presentations (individual or group) / Documentation (photos with captions, short reports in portfolio Format)



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.Com. DEGREE
ACCOUNTING AND FINANCE
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

DEPARTMENT OF COMMERCE – SHIFT II

BACHELOR OF COMMERCE (ACCOUNTING & FINANCE)

PROGRAMME DESCRIPTION

B.Com. Accounting & Finance is a three-year degree programme designed to develop skills and competencies of the students in the field of Accountancy and Finance. This programme provides in-house training in Financial Analytics which will enable the students to pursue different career paths. The curriculum is rigorous and progressive and prepares its graduates for professional roles in the areas of finance and accounting. The programme enhances practical knowledge and employability through real-time simulation-based projects and internships. It focuses on building competencies in accounting and finance and provides the students with a wide range of managerial skills.

VISION OF THE DEPARTMENT

In consistent with the vision of the College, we are in pursuit of excellence in Commerce, by providing a vibrant and innovative Centre of Learning for the students to realize their potential and facilitate them to become business leaders and entrepreneurs with essential virtues of ‘Truth and Charity’ thereby upholding the motto of the College.

MISSION OF THE DEPARTMENT

Our mission is to excel as a transformational leader in Commerce, by equipping the students with sound theoretical knowledge and application skills to surge ahead in their career, adequately moulding them to meet the challenges of the emerging "Knowledge Society" besides inculcating humane values in them for the well-being of the society

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.Com. in Accounting and Finance Programme, graduates will be able to

PSO 1	exhibit critical thinking, analytical reasoning and problem solving skills
PSO 2	identify basic ethical issues relating to various aspects of business
PSO 3	apply appropriate analytical methods to find solutions to business problems
PSO 4	show responsibility and understanding of local and global financial issues
PSO 5	apply appropriate accounting and management techniques in evaluating and improving sustainability in business environment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Com. Accounting and Finance 2023 - 2024 Shift II														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4									6	8
Part - II														
English	3	4	3	4									6	8
											Total		12	16
Part - III														
Major Core	4	5	3	4	4	5	4	5	4	5	4	5	23	29
	3	4	3	4	4	5	3	4	4	5	4	5	21	27
					3	4	3	4	4	5	4	5	14	18
					3	4	3	4	4	5	4	5	14	18
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		107	128
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3	3	3									6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1									0	1
Mentoring		1				3		3					0	7
											Total		4	10
Total	26	30	26	30	23	30	23	30	25	30	26	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**B.Com. DEGREE: ACCOUNTING AND FINANCE****COURSES OF STUDY****(Effective from the Academic Year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23AF/MC/FR14	Financial Reporting and Analysis	4	4	1	0	3	50	50	100
23AF/MC/MP13	Management Principles and Applications	3	3	1	0	3	50	50	100
23AF/AC/SB15	Statistics for Business Decisions	5	5	0	0	3	50	50	100
23AF/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23AF/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
SEMESTER-II									
23AF/MC/CC23	Cost Concepts and Methods	3	3	1	0	3	50	50	100
23AF/MC/PM23	Principles of Marketing	3	3	1	0	3	50	50	100
23AF/AC/MF25	Money, Financial Markets and International Trade	5	5	0	0	3	50	50	100
23AF/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I /								
SEMESTER-III									
23AF/MC/FM34	Financial Management	4	4	1	0	3	50	50	100
23AF/MC/TD34	Tools for Managerial Decision Making	4	4	1	0	3	50	50	100
23AF/MC/BL33	Business Law	3	3	1	0	3	50	50	100
23AF/MC/BE33	Business Ethics and Corporate Governance	3	3	1	0	3	50	50	100
Allied Core offered to students of Commerce-Shift II(A&F) by Dept. of Mathematics- Shift II									
23MT/AC/MT35	Mathematics for Commerce	5	5	0	0	3	50	50	100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23AF/MC/CR44	Corporate Accounting and Restructuring	4	4	1	0	3	50	50	100
23AF/MC/BI43	Banking and Insurance	3	3	1	0	3	50	50	100
23AF/MC/CL43	Corporate Law	3	3	1	0	3	50	50	100
23AF/MC/FT43	Financial Technology	3	3	1	0	3	50	50	100
23AF/AC/FI45	Introduction to Financial Analytics and its Applications	5	2	0	3	3	50	50	100
	Major Elective I								
SEMESTER-V									
23AF/MC/IA54	Individual Tax Assessment	4	4	1	0	3	50	50	100
23AF/MC/CF54	Computer Aided Financial Analysis	4	1	0	4	3	50	50	100
23AF/MC/SP54	Security Analysis and Portfolio Management	4	4	1	0	3	50	50	100
23AF/MC/FS54	Financial Services	4	4	1	0	3	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Interdisciplinary Core (CM(Gen) and A&F) to students of CM(Gen) and A&F									
23ID/IC/SI55	Social Finance and Impact Investing	5	5	1	0	3	50	50	100
	General Elective III								
	SAP / SL								
SEMESTER-VI									
23AF/MC/EF64	Entrepreneurial Finance	4	4	1	0	3	50	50	100
23AF/MC/BT64	Business Taxation	4	4	1	0	3	50	50	100
23AF/MC/AA64	Auditing and Assurance	4	4	1	0	3	50	50	100
23AF/MC/TF64	Tools for Financial Analytics	4	2	0	3	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23AF/ME/SM45	Stock Market Operations	5	5	0	0	3	50	50	100
23AF/ME/TP45	Business Tax Planning and Procedures	5	5	0	0	3	50	50	100
23AF/ME/EC45	E-Commerce	5	5	0	0	3	50	50	100
23AF/ME/OP45	Organisation and People Management	5	5	0	0	3	50	50	100
23AF/ME/FA45	Forensic Audit and Fraud Detection	5	5	0	0	3	50	50	100
General Electives									
23AF/GE/SI22	Stock Market Investment	2	2	0	0	-	50	-	100
23AF/GE/FB22	Financial Budgeting for Entertainment Industry	2	1	0	1	-	50	-	100
23AF/GE/NF22	New Venture Finance	2	2	0	0	-	50	-	100
23AF/GE/PF22	Personal Financial Planning	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23AF/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23AF/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23AF/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23AF/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23AF/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23AF/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23AF/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23AF/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23AF/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Electives									
23AF/UI/IP23	Investment Planning	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

FINANCIAL REPORTING AND ANALYSIS

CODE: 23AF/MC/FR14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide a basic understanding of various accounting standards
- To familiarise students with the disclosure of information in financial statements
- To educate on the need for financial analysis and interpretation
- To enable students to appreciate the significance of cash and funds flow statements
- To facilitate understanding of the choices made by enterprises in reporting the results of business activities

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define the concepts relating to financial reporting and analysis	K1
CO2	compare the income and financial position of different organisations	K2
CO3	compile the financial information for financial reporting	K3
CO4	analyse the financial performance of a business concern	K4
CO5	evaluate the relevance of inter and intrafirm comparison	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Framework for Preparation and Presentation of Financial Statement 1.1 Conceptual Framework of Accounting - Accounting as an Information System, Users and their Information Needs, Advantages of Computerized Accounting, and Information System (AIS)	K1-K2	2	1-2

UNIT	CONTENT	CL	HRS	CO
	1.2 Introduction to IFRS and Ind-AS 1.2.1 IFRS – An overview. 1.2.2 Ind-AS – Objectives, Process, Accounting Standards Board, Application in the preparation of financial statements – 1,2,3,4,5,9,10,26 and 29	K1-K2	3	1-2
2	Preparation of Financial Statements of Sole Proprietor 2.1 Preparation of Final Accounts of Sole Proprietor and Manufacturing concern	K1-K5	7	1-5
	2.2 Closing Entries and Adjustment Entries – Loss of Stock by Accident or Fire, Manager's Commission on Net Profit Before and After Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax	K1-K5	8	1-5
3	Final Accounts of a Company 3.1 Final Accounts of a Company- Preparation of Final Accounts- Forms and Contents as per Schedule- VI of Companies Act 2013	K1-K5	8	1-5
	3.2 Managerial Remuneration	K3-K5	7	3-5
4	Cash Flow and Fund Flow Analysis 4.1 Meaning and Importance of Cash Flow and Fund Flow	K1-K2	1	1-2
	4.2 Significance and Limitations of Cash Flow and Fund Flow Statement	K1-K2	1	1-2
	4.3 Preparation of Cash Flow and Fund Flow Statement as per AS 3	K1-K5	13	1-5
5	Financial Statement Analysis 5.1 Meaning of Financial Statements, Functions, Objectives and Process of Financial Statement Analysis and Interpretation	K1-K2	3	1-2
	5.2 Ratio Analysis - Significance and Limitations of Ratio Analysis, Computation and Interpretation of Ratios - Liquidity, Profitability Solvency and Leverage Ratios – Intra-firm and Inter-firm	K1-K5	12	1-5

BOOKS FOR STUDY

Gupta R.L. and Radhaswamy M., Advanced Accountancy (Vol.1), New Delhi: Sultan Chand & Sons

Reddy, T.S and Murthy, A., Corporate Accounting (Vol.1), Chennai: Margham Publications

Reddy, T.S and Murthy, A., Financial Accounting, Chennai: Margham Publications

Reddy T.S and Hari Prasad Reddy, Y., Management Accounting, Chennai: Margham Publications

Note: Latest edition to be used

BOOKS FOR REFERENCE

Atkinson A. Anthony, Robert S. Kaplan, S. Mark Young, Management Accounting, Pearson

Maheshwari S.N., Principles of Management Accounting, New Delhi: Sultan Chand

Manmohan and Goyal. S.N., Principles of Management Accounting, Agra: Sahitya Bhawan

Goyal, V.K. and Goyal, Ruchi, Financial Accounting, New Delhi: PHI Learning

Jain S.P and Narang K.L, Advanced Accountancy (Part1), New Delhi: Kalyani Publishers

Note: Latest edition to be used

JOURNALS

Indian Journal of Finance

International Journal of Research in Commerce and Management

Management Accountant - The ICWA of India

WEB RESOURCES

www.icaai.org

www.cimaglobal.com

www.investopedia.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 x 2 = 6. No choice (1 theory 2 problems)
B	K2	10	2 x 5 = 10. (out of 3 problems)
C	K3, K4	20	2 x 10 = 20 (internal choice for one K3 problem and one K4 problem)
D	K5	14	1 x 14 = 14 (out of 2 problems)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (No choice) (2 theory 3 problems)
B	K2	20	4 x 5 = 20 (out of 6 questions) (1 theory 5 problems)
C	K3, K4	40	4 x 10 = 40 (internal choice between two K3 problems and two K4 problems)
D	K5	30	2 x 15 = 30 (out of 3 problems)

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/FR14												
	Course Title: Financial Reporting and Analysis												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	2	2	3	3	3	2	2
CO 2	3	3	3	2	2	1	2	2	3	3	3	2	2
CO 3	3	3	3	2	2	1	2	2	3	3	3	2	2
CO 4	3	3	3	2	2	1	2	2	3	3	3	2	2
CO 5	3	3	3	2	2	1	2	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI — 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

MANAGEMENT PRINCIPLES AND APPLICATIONS

CODE: 23AF/MC/MP13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide an understanding of the principles of Management
- To familiarize students with the schools of Management thought
- To acquaint students with the need for planning to aid in proper decision making
- To provide an understanding of the various functions of Management
- To expose students to the recent trends in Management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the fundamental concepts in Management	K1, K2
CO2	relate the functions of management with different types of organisations	K3
CO3	examine the skills required for effective management	K4
CO4	evaluate the organograms of business entities	K5
CO5	formulate solutions to overcome challenges by adopting suitable techniques	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Overview of Management			
	1.1. Meaning — Science or Art. Process, Managerial Functions and Roles	K1-K2	3	1
	1.2. Approaches to Management — Classical. Quantitative, Behavioral, Contemporary	K1-K2	2	1
	1.3. Management Thought — FW Taylor, Henry Fayol. Elton Mayo, Peter Drucker, Michael Porter, CK Prahalad	K1-K5	5	1-4
	1.4. Trends and Challenges of Management in Global Scenario	K1-K6	2	1-5

UNIT	CONTENT	CL	HRS	CO
2	Planning 2.1. Planning — Meaning Types and Process	K1-K6	2	1-5
	2.2. Business Environment Analysis - Meaning. Types; Techniques (SWOT, PESTLE, BCG Matrix)	K1-K6	4	1-5
	2.3. Decision Making — Meaning, Types and Techniques - Quantitative and Qualitative	K1-K6	4	1-5
3	Organising 3.1. Meaning and Types of Organisation	K1-K2	2	1
	3.2. Process of Organising	K1-K5	3	1-4
	3.3. Organisation Structure and Chart	K1-K5	2	1-4
	3.4. Span of Control, Departmentation, Delegation and Decentralization	K1-K5	3	1-4
4	Staffing and Directing 4.1. Staffing — Recruitment, Selection, Induction, Training and Development	K1-K4	3	1-3
	4.2. Motivation — Meaning and Theories (Maslow — Need Theory, Herzberg — Two Factor Theory)	K1-K6	3	1-5
	4.3. Leadership — Meaning, Styles and Theories (Trait, Likert Behavioral, Managerial Grid, Fiedler Situational)	K1-K6	3	1-5
	4.4. Communication - Meaning, Types. Process and Barriers	K1-K6	3	1-5
5	Control 5.1. Meaning and Importance of Control	K1-K2	2	1
	5.2. Process of Control Mechanism - MIS	K1-K6	2	1-5
	5.3. Control Techniques — PERT, CPM, ROI, Budgetary Control	K1-K6	4	1-5

BOOKS FOR STUDY

Gupta, C. B., Business Management, New Delhi, Sultan Chand and Sons.

Koontz, H., Mark V. Cannice, and Weihrich, H., Essentials of Management, Pearson Education, 11th edition.

BOOKS FOR REFERENCE

Robbins, S., Randel, A., Viswanathan, R. and Coulter, M., Management, Pearson Education, 15th edition.

Robbins, S. P. Decenzo, D.A., Bhattacharya, S. and Agrawal, M.M., Fundamentals of

Management: Essentials, Concepts and Applications, Pearson Education 11th edition.
 Drucker P. F., Practice of Management, Mercury Books, London.
 Singh, B.P. and Singh, A.K., Essentials of Management, Excel Books.
 Chhabra, T.N., Essentials of Management, Sun India. 2022
 Griffin, R.W., Management Principles and Application, Cengage Learning

JOURNALS

European Journal of Business Management
 Journal of International Business Studies
 Academy of Management Review

PATTERN OF ASSESSMENT

Continuous Assessment: **Total Marks: 50** **Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 x 2 = 6 No choice (not exceeding 50 words)
B	K2	10	2 x 5 = 10 (out of 3 questions) (not exceeding 150 words)
C	K3, K4	20	2 x 10 = 20 (internal choice for one K3 question and one K4 question) (not exceeding 500 words)
D	K5,K6	14	1 x 14 = 14 (out of 2 questions with subdivisions for K5 and K6) (not exceeding 1000 words)

Other Components: **Total Marks: 50**
 Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: **Total Marks: 100** **Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (No choice) (not exceeding 50 words)
B	K2	20	4 x 5 = 20 (out of 6 questions) (not exceeding 150 words)
C	K3, K4	40	4 x 10 = 40 (internal choice between two K3 questions and two K4 questions) (not exceeding 500 words)
D	K5	15	1 x 15 = 15 (internal choice) (not exceeding 1000 words)
E	K6	15	Case study (Compulsory)

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/MP13												
	Course Title: Management Principles and Applications												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	2	2	2	3	2	3	3
CO 2	3	3	3	2	2	2	3	3	2	3	2	3	3
CO 3	3	3	3	3	3	3	2	2	2	3	2	3	3
CO 4	3	3	3	2	2	2	2	2	2	3	2	3	3
CO 5	3	3	3	2	2	3	3	3	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation:

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

STATISTICS FOR BUSINESS DECISIONS

CODE: 23AF/AC/SB15

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide practical exposure to the various statistical methods
- To enable students to understand the relationship between variables used in research
- To assist in arriving at rational decisions through systematic analysis and interpretation
- To educate students on the effective and efficient application of various statistical tools
- To acquaint students with formulation of hypotheses relating to research problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify appropriate statistical techniques for business data analysis.	K1
CO2	relate statistical approaches to solve real time business problems	K2
CO3	classify and compare business data for decision making	K3
CO4	analyze and interpret the relationship between variables	K4
CO5	evaluate the effectiveness of statistical tools in solving business problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Descriptive Statistics			
	1.1 Data Types – Univariate Summaries	K1-K2	2	1-2
	1.2 Multivariate Summaries - Karl Pearson's Co efficient of Correlation	K1-K3	4	1-3
	1.3 Partial Correlation of First Order and Second Order Co-efficient, Co-efficient of Multiple Correlations	K1-K3	6	1-3

UNIT	CONTENT	CL	HRS	CO
2	Test of Hypothesis			
	2.1 Procedure for Testing Hypothesis	K1-K2	2	1-2
	2.2 Test of Significance	K3-K4	2	3-4
	2.3 Parametric and Non-Parametric Approaches	K1-K2	2	1-2
	2.4 Test on Single Parametric Value – z Test, t Test	K3-K5	2	3-5
	2.5 Test for Difference of Two Parametric Values	K3-K5	2	3-5
	2.6 Variance Ratio Test			
	2.6.1 One-way Classification Model – One-way ANOVA	K1-K5	2	1-5
	2.6.2 Two-way Classification Model – Two-way ANOVA	K1-K5	2	1-5
3	Categorical data and Chi-square test			
	3.1 Introduction to Categorical Data	K1-K2	2	1-2
	3.2 Meaning and Conditions for Applying Chi-Square test	K1-K2	3	1-2
	3.3 Application of Chi Square Test - Test of Goodness of Fit and Test of Independence – Yates Correction	K1-K5	4	1-5
	3.4 Mc Nemar Test	K1-K5	3	1-5
4	Regression Models			
	4.1 Simple Linear Regression			
	4.1.1 Least square Estimation Formula	K1-K5	2	1-5
	4.1.2 Hypotheses Testing and confidence Interval	K1-K5	2	1-5
	4.2 Multiple Linear Regression			
	4.2.1 Least square Estimation Formula	K1-K3	3	1-3
	4.2.2 Hypotheses Testing and confidence Interval	K1-K5	3	1-5
	4.3 Residual Analysis (Formula based)	K1-K5	2	1-5
	4.4 Handling Indicator Predictors	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
5	Analysis of Time Series			
	5.1 Utility and components of time series	K1-K3	3	1-3
	5.2 Methods of measuring trend – Simple Averages, Semi-Averages, Moving Averages and Least Square	K1-K5	5	1-5
	5.3 Measurement of seasonal variations	K1-K5	4	1-5

BOOKS FOR STUDY

Gupta S.P., Statistical Methods, New Delhi, Sultan Chand, 2022

Agresti, A. Categorical Data Analysis (Vol. 482). John Wiley & Sons, 2003

Montgomery, D.C., Peck, E. A. & Vining, G. G. Introduction to Linear Regressions Analysis Vol. 821. John Wiley & Sons. 2021, 6th Edition.

BOOKS FOR REFERENCE

Gupta, S. C. & Kapoor, V. C. Fundamentals of Mathematical Statistics, Sultan Chand & Sons, 2020.

Agarwal, S. & Bharadwaj, Business Statistics, Kalyani Publications, Ludhiana.

Agarwal Y.P., Statistical Methods, Concepts, Applications and Computations, New Delhi, Sterling, 2012.

Beri, G.C., Business Statistics, New Delhi, Tata Mc Graw Hill , 2010

Pillai, R.S.N. & Bagavathy, V., Statistics, New Delhi, Sultan Chand, 2019.

Sharma J.K., Business Statistics, New Delhi, 1st edition, Pearson Education, 2019

JOURNALS

Open Journal of Statistics - SEIRT

Aligarh Journal of Statistics

Journal of Applied Statistics

Statistics Journal

WEB RESOURCES

www.indiastat.com

www.statsoft.com

<https://wise.cgu.edu/>

<http://statistics-help-for-students.com>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$. No choice (1 theory 2 problems)
B	K2	10	$2 \times 5 = 10$. (out of 3 problems)
C	K3, K4	20	$2 \times 10 = 20$ (internal choice for one K3 problem and one K4 problem)
D	K5	14	$1 \times 14 = 14$ (out of 2 problems)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (No choice) (2 theory 3 problems)
B	K2	20	$4 \times 5 = 20$ (out of 6 questions) (1 theory 5 problems)
C	K3, K4	40	$4 \times 10 = 40$ (internal choice between two K3 problems and two K4 problems)
D	K5	30	$2 \times 15 = 30$ (out of 3 problems)

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/AC/SB15												
	Course Title: Statistics for Business Decisions												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	1	1	3	3	2	3	2
CO 2	3	3	3	2	1	2	1	1	3	3	2	3	2
CO 3	3	3	3	2	2	2	1	1	3	3	2	3	2
CO 4	3	3	3	2	3	2	1	1	3	3	2	3	2
CO 5	3	3	3	2	3	2	1	1	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A/ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23AF/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water)and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A/ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23AF/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage, 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group Discussions
Group Presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023–2024)

COST CONCEPTS AND METHODS

CODE: 23AF/MC/CC23

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To provide an understanding of the basic concepts of Cost Accounting
- To impart knowledge in cost ascertainment, control and decision making
- To provide knowledge on different methods of costing used in different industries
- To expose the students to the practical applicability of Cost Accounting
- To equip students with knowledge and skills required to prepare cost sheets of manufacturing entities

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define the basic concepts of Cost Accounting	K1
CO2	understand the format for presenting information using various methods relevant to cost accounting.	K2
CO3	apply appropriate principles and concepts relevant to cost accounting	K3
CO4	analyse and evaluate the total costs relating to products and processes	K4
CO5	prepare cost statements and quotations relating to cost for different industries	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction to Cost Accounting	K1-K3	1	1-5
	1.1.1 Scope and Objectives of Cost Accounting			
	1.1.2 Cost Centre and Cost Units, Methods of Costing	K1-K3	1	1-5
	1.1.3 Elements of Cost and Classification of Cost	K1-K3	1	1-5
	1.2 Unit and Output Costing			
	1.2.1 Meaning and Components of Cost Sheet	K1-K3	1	1-5
	1.2.2 Computation of Total Cost and Profit	K1-K5	3	1-5
	1.2.3 Preparation of Quotations	K1-K5	3	1-5
2	2.1 Material Cost and Material Control			
	2.1.1 Material Control – Meaning, Objectives, Computation of Material Cost and Accounting Treatment for Normal Loss, Abnormal Loss and Scrap	K1– K5	1	1-5
	2.1.2 Purchase Control – Purchase Procedure	K1- K5	1	1-5
	2.1.3 Stores Control -Techniques of Inventory Control, Economic Order Quantity, Level Setting	K1 -K5	1	1-5
	2.1.4 Issue Control - Stores and Material Records, Methods of Material Issue – First in First Out, Last in First Out, Average Cost-Simple and Weighted Average	K1-K5	3	1-5
	2.2 Labour Cost			
	2.2.1 Computation of Labour Cost, Treatment of Overtime and Idle time	K1-K5	2	1-5
	2.2.2 Labor Turnover - Causes and Effects, Methods of Computation	K1-K5	1	1-5
	2.2.3 Methods of Remuneration- Time Rate System, Piece Rate System-Taylor’ Merrick’s Differential Piece Rate System, Incentive Schemes – Halsey and Rowan Premium Plans	K1-K5	3	1-5
3	Overheads			
	3.1 Classification of Overhead Costs	K1-K3	1	1-5
	3.2 Apportionment and Allocation of Overheads	K1 - K5	1	1-5
	3.2.1 Primary Distribution of Overheads	K1 - K5	2	1-5
	3.2.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non Reciprocal Methods	K1 - K5	3	1-5
	3.3 Methods of Absorption of Overheads			
	3.3.1 Direct Labour Hour Rate	K1- K5	1	1-5
	3.3.2 Machine Hour Rate	K1 - K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
4	Process Costing			
	4.1 Meaning and Features of Process Costing	K1-K3	1	1-5
	4.2 Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage and Abnormal Gain	K1-K5	3	1-5
	4.3 Inter-Process Profit	K1-K5	3	1-5
	4.4 Joint and By Product Costing	K1-K5	3	1-5
5	5.1 Operating Costing			
	5.1.1 Introduction to Operating Costing, Cost Unit in Operating Costing	K1-K3	1	1-5
	5.1.2 Transport Costing	K1-K5	3	1-5
	5.2 Contract Costing			
	5.2.1 Features of Contract Costing	K1-K3	1	1-5
	5.2.2 Accounting for Contracts (Simple Contracts only)	K1 - K5	3	1-5
	5.3 Activity Based Costing			
	5.3.1 Features of Activity Based Costing	K1 - K3	1	1-5
	5.3.2 Importance of Activity Based Cost Sheet	K1 - K3	1	1-5

BOOKS FOR STUDY

Jain S.P. and Narang K.L., *Cost Accounting*, New Delhi: Kalyani Publishers, 2023
 Reddy T.S and Hari Prasad Reddy Y., *Cost Accounting*, Chennai: Margham Publications, 2020

BOOKS FOR REFERENCE

Khanna B.S., Pandey I.M., Ahuja G.K., Batra, S.C.L., *Practical Costing*, New Delhi: Sultan Chand, 2015
 Maheshwari S.N., *Problems and Solutions in Cost Accounting*, New Delhi: Sultan Chand, 2008
 Kishore, Ravi M., *Cost & Management Accounting*, 6th edition, New Delhi: Taxmann's, 2021
 Tulsian, P.C. and Tulsian, Bharat, *Cost Accounting*, New Delhi: S. Chand & Company, 2023

JOURNALS

The Management Accountant - The Institute of Cost Accountants of India
 Indian Journal of Finance
 Journal of Cost Accounting Research

WEB RESOURCES

www.accountingformanagement.com
www.accaglobal.com
www.icmai.in

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (only problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question (only problem, internal choice) 1 K4 question (only problem, internal choice)
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words for theory	K1 (10)	5 x 2 =10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 =40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems, internal choice) 2 K4 questions (Only Problems, internal choice)
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/CC23												
	Course Title: Cost Concepts and Methods												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	3	3	3	1	3	2	3
CO 2	3	3	2	3	3	2	3	3	3	1	3	2	3
CO 3	3	3	2	3	3	2	3	3	3	1	3	2	3
CO 4	3	3	2	3	3	2	3	3	3	1	3	2	3
CO 5	3	3	2	3	3	2	3	3	3	1	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF MARKETING

CODE:23AF/MC/PM23

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide an understanding of the marketing principles
- To expose students to various concepts, tools and principles of marketing.
- To help students understand the macro role of marketing in society and micro role in business.
- To expose the students to the recent trends in marketing,
- To enable the students to formulate new product development strategies

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to:

COs	DESCRIPTION	CL
CO1	understand various elements and tools of marketing and the recent trends in marketing	K1,K2
CO2	identify the importance and functions of marketing in the business.	K3
CO3	analyze the recent trends in marketing and the appropriate channels of distribution	K4
CO4	assess the business environment and the factors influencing buying behavior of consumers	K5
CO5	explore the possibility of developing marketing programs for products and services.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Meaning, Scope and Core Marketing Concepts	K1-K3	2	1-3
	1.2 Functions of Marketing	K1-K2	2	1
	1.3 Market Segmentation and Market Environment	K1-K6	2	1-5
	1.4 Marketing Mix – 7 P's of Marketing	K1-K6	2	1-5
2	Product Mix			
	2.1 Meaning and Classification of Product	K1-K4	3	1-3
	2.2 Product Management	K3-K5	3	2-4
	2.3 New Product Development	K5-K6	3	4-5
	2.4 Product Life Cycle	K6	3	5
3	Pricing and Place Mix	K1-K6	2	1-5
	3.1 Pricing			
	3.1.1 Meaning and Factors Affecting Pricing			
	3.1.2 Pricing Methods, Pricing Policies and Strategies	K3-K6	3	2-5
	3.1.3 Legal Implications on Pricing	K3-K4	2	2-4
	3.2 Place	K4-K6	2	3-5
	3.2.1 Distribution – Meaning and Channels			
	3.2.2 Factors affecting the Choice of Distribution	K5-K6	3	4-5
4	Promotional Mix			
	4.1 Integrated Marketing Communication- Meaning, Modes and Purposes	K1-K4	4	1-3
	4.2 Tools for IMC - Advertising, Public Relations, Sales Promotion and Personal Selling	K3-K4	4	2-3
	4.3 IMC Planning Process - Review of Market plan, Situational Analysis, Communication Process Analysis, Budget Determination and Evaluation	K4-K6	4	3-5
5	Current Trends in Marketing			
	5.1 Social Cause Marketing and Sports Marketing	K1-K6	3	1-5
	5.2 Relationship Marketing and Diversity Marketing	K1-K6	3	1-5
	5.3 Digital Marketing	K1-K6	2	1-5

BOOKS FOR STUDY

Kotler, Philip; Keller, Kevin Lane; Koshy, Abraham, and Mithileshwar Jha, *Marketing Management: A South Asian Perspective*, Pearson Education, 2017.

Rajan Nair and Sanjith Nair, *Marketing*, New Delhi, Sultan Chand & Sons, 2018.

BOOKS FOR REFERENCE

Dr. R.L. Varshney, Dr. S.L. Gupta, *Marketing Management*, Himalaya,
Gandhi J.C. *Marketing*, New Delhi, Tata McGraw Hill, 2009
Armstrong, Gary M., Stewart, Adam, Denize, Sara, Volkov, Michael, and Kotler, Philip,
Principles of Marketing, 2018

JOURNALS

Indian Journal of Marketing
International Journal of Marketing Studies
International Journal of Research in Marketing
International Journals of Marketing and Technology

WEB RESOURCES

<https://www.brafton.com>
<https://www.boundless.com>
<http://www.marketingsherpa.com>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D – Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D – Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/PM23												
	Course Title: Principles of Marketing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	1	1	2	1	1	2	2	2	3	2
CO 2	3	2	3	3	3	2	1	1	2	2	2	3	3
CO 3	3	3	3	2	1	1	1	1	2	3	3	3	3
CO 4	3	3	2	3	3	1	1	1	1	2	2	3	3
CO 5	3	2	3	3	3	1	1	1	1	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

MONEY, FINANCIAL MARKETS AND INTERNATIONAL TRADE

CODE:23AF/AC/MF25

CREDITS: 5

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide an overview of Money, Banking and International trade from the Indian context.
- To enable students to understand the macro policies.
- To expose students to the working of the open economy.
- To familiarise the students on the role and functions of financial markets
- To help students understand the nuances of monetary policies

COURSE LEARNING OUTCOMES

On the successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define basic concepts in economics	K1
CO2	understand how the financial markets function	K2
CO3	examine the various macro-economic policies of India and its relevance.	K3
CO4	explain the working of the open and closed economy	K4
CO5	appraise the working of the commercial and central banks	K5,K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Money - Definition , Evolution , Types and Functions	K1-K4	2	1-4
	1.2 Value of Money - Measurement - Index Numbers	K1-K4	2	1-4
	1.3 Demand for Money- Determinants	K1-K4	2	1-4
	1.4 Money Supply - Determinants	K1-K4	2	1-4
	1.5 Measurement of money supply - Indian Context	K1-K6	2	1-5
2	Financial markets			
	2.1 Structure of Financial Markets	K1-K6	3	1-5
	2.2 Money Market - Instruments	K1-K6	4	1-5
	2.3 Capital Market - Instruments	K1-K6	4	1-5
	2.4 Forex - Definition - Types of Markets	K1-K6	4	1-5
3	Banking			
	3.1 Central Bank - Functions	K1-K6	3	1-5
	3.2 Commercial Banks - Functions	K1-K6	2	1-5
	3.3 Credit Creation - Monetary base and Money Multiplier	K1-K6	2	1-5
	3.4 Credit Control - Qualitative and Quantitative	K1-K6	3	1-5
	3.5 Role played by IMF – World Bank and its affiliates, IFC, MIGA, ICSID, ADB, Regulatory role played by WTO and UNCTAD	K1-K6	3	1-5
4	International Trade			
	4.1 BOP and BOT - Concept and Balance Sheet, Trends of India's BOP	K1-K6	2	1-5
	4.2 Disequilibrium - Causes and Measures to Correct Disequilibrium	K1-K6	3	1-5
	4.3 Exchange rate - Fixed and Flexible	K1-K6	4	1-5
	4.4 Free trade Vs Protectionism - Ad Valorem , Specific Tariff and Quota - Effect(Production, Consumption, Terms of Trade)	K1-K6	4	1-5
5	Policies			
	5.1 Monetary Policy - Objectives and Instruments	K1-K6	4	1-5
	5.2 Monetary Policy in India - Post Reforms (Since 1991)	K1-K6	5	1-5
	5.3 Trade Policy - EXIM Policy	K1-K6	5	1-5

BOOKS FOR STUDY

Hajela T N, *Money, Banking and International Trade*, ANE Books, New Delhi, 2009.

Mishkin F S and A Serletis, *Economics of Money Banking and Financial Markets*, New York, Springer Publication, 2009.

Sundaram, K P M, *Money, Banking and International Trade*, New Delhi, Sultan Chand and Co., 2006.

BOOKS FOR REFERENCE

Khan M Y, *Indian Financial System*, 9th edition, New Delhi, McGraw Hill, 2000.

Mankiw, N, Gregory, *Principles of Macroeconomics*, 9th Ed, New York, Worth Publishers, 2009

Appleyard, Field Cobb, *International Economics*, 7th Ed, McGraw Hill Education (India), Pvt., Ltd., 2009.

WEB RESOURCES

www.mospi.gov.in

www.rbi.org.in

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D – Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 =10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 =40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D – Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23AF/AC/MF25												
	Course Title: Money, Financial Markets and International Trade												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	1	2	2	3	3	3	2	1
CO 2	3	3	3	1	2	1	1	1	2	3	1	3	2
CO 3	3	3	2	1	3	1	1	1	3	1	2	2	1
CO 4	3	3	2	1	1	1	1	1	3	2	3	3	1
CO 5	3	3	1	1	3	2	1	1	2	2	2	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A/ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23AF/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group Discussions

Group Presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/ B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment:**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

FINANCIAL MANAGEMENT

CODE: 23AF/MC/FM34

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To understand the importance of financial management.
- To expose the students to the techniques and theories of capital structure
- To expose students to financial decisions in acquiring and distributing funds to keep the business financially stable
- To provide an understanding of the role of financial manager in the current competitive business environment
- To educate on the importance of working capital management

COURSE LEARNING OUTCOMES

On the successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamental concepts of financial management	K1
CO2	understand techniques to identify the funding source considering time, risk, cost, market price and return.	K2
CO3	apply principles and select the best option from the alternatives	K3
CO4	analyse the financial needs of the business concern	K4
CO5	critically review the sources of finance	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Nature, Importance and Objectives of Financial Management	K1	2	1
	1.2 Scope of Financial Management – Profit Maximization and Wealth Maximization Traditional and Modern Approach	K1	2	1
	1.3 Functions of finance – Finance Decision, Investment Decision, Dividend Decision Organization of finance function. Functions of finance – Finance Decision, Investment Decision, Dividend Decision Organization of finance function	K1	4	1
	1.4 Time value of money: Meaning – Rationale of Time Preference for Money – Future Value – Present Value	K2-K5	7	1-4

UNIT	CONTENT	CL	HRS	CO
2	Financing Decisions			
	2.1 Cost of Capital – Meaning, Significance and Classification of Costs	K1	2	1
	2.2 Computation of Specific Cost of Capital, Cost of Debt, Cost of Preference Share Capital, Cost of Equity Share Capital and Cost of Retained Earnings, Computation of weighted Average and Marginal Cost of Capital	K2-K5	5	2-5
	2.3 Leverages - Meaning, Types - EBIT-EPS Analysis, Degree of Operating Leverage, Degree of Financial Leverage, Degree of Combined Leverage, Indifference Point	K1-K5	5	2-5
	2.4 Capital Structure - Meaning, Determinants, Theories - Net Income Approach, Net Operating Income Approach, Traditional Approach, MM Approach	K1-K5	3	1-5
3	Investment Decisions			
	3.1 Meaning, Importance and Process	K1	1	1
	3.2 Techniques of Capital Budgeting – Traditional Techniques: Payback Period – Accounting / Average Rate of Return, Discounted Techniques, Discounted Payback Period, Net Present Value, Internal Rate of Return, Profitability Index – NPV Vs. IRR – Capital Rationing	K2-K5	5	2-5
	3.3 Risk Analysis in Capital Budgeting Decisions - Sources and Perspectives of Risk, Risk Adjusted Discount Rate, Certainty Equivalent, standard deviation and Decision Tree Analysis	K2-K5	4	2-5
4	4.1 Working Capital Management			
	4.1.1 Meaning, Definition, Concept, Types, Factors determining Working Capital	K1	2	1
	4.1.2 Computation of Working Capital Requirement	K2-K5	4	2-5
	4.1.3 Operating Cycle – Meaning and Computation	K2-K5	3	2-5
	4.2 Dividend Decision			
	4.2.1 Meaning, Types of Dividend Policies, Factors Influencing Dividend Policy	K1	2	1
	4.2.2 Forms of Dividend (Theory), Dividend Theories - Relevance Theories – Walter’s Model, Gordon’s Model, Irrelevance Theory, MM Hypothesis	K1-K5	4	1-5
5	Sources of Finance			
	5.1 Different Sources of Finance, Characteristics of Different Types of Long Term Debt and Equity Finance, Method of Raising Long Term Finance	K1	2	1
	5.2 Different Sources of short- term Finance	K1	1	1
	5.3 Internal fund as a source of finance	K1	2	1
	5.4 International sources of finance	K1	1	1

UNIT	CONTENT	CL	HRS	CO
	5.5 Other sources of finance- Sale and lease back, Convertible debt, Venture capital, Grants etc.	K1	2	1
	5.6 Lease Financing - Concept and Classification, Significance and Limitations, Financial Evaluation of Leasing Decision	K1	2	1

BOOKS FOR STUDY

Pandey I. M., *Financial Management*, New Delhi Vikas

Prasanna Chandra, *Fundamentals of Financial Management*, New Delhi, Tata McGraw Hill

BOOKS FOR REFERENCE

Khan M.Y. and Jain P.K. *Basic Financial Management*, New Delhi. Tata McGraw Hill

Maheshwari S. N., *Financial Management*, New Delhi. Vikas

Kishore, Ravi, *Taxmann's Financial Management*, New Delhi. K. L., Taxmann

Kalra, Ashish, *Financial Management*, New Delhi, I.G.P

NOTE: Recent Edition of Book to be used

JOURNALS

Journal of Money, Credit and Banking

Journal of Financial and Quantitative Analysis

Journal of Financial Economics

WEB RESOURCES

www.cfainstitute.org/cfaprogram

www.icaai.org

www.icsi.edu

www.icwai.org

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (3 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question (only problem, internal choice) 1 K4 question (only problem, internal choice)
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems, internal choice) 2 K4 questions (Only Problems, internal choice)
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/FM34												
	Course Title: Financial Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	1	1	2	3	3	3	3	3
CO 2	3	3	3	2	3	1	2	1	3	3	3	2	3
CO 3	3	3	3	2	1	1	1	1	3	3	3	3	3
CO 4	3	3	3	2	3	1	1	1	3	3	3	3	3
CO 5	3	3	3	2	2	1	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**B.Com. DEGREE: ACCOUNTING AND FINANCE
SYLLABUS**

(Effective from the academic year 2023–2024)

TOOLS FOR MANAGERIAL DECISION MAKING

CODE:23AF/MC/TD34

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide comprehensive knowledge of Management accounting concepts and principles
- To acquaint students with the techniques for decision making
- To help students understand the application of marginal costing techniques in decision making
- To expose students to the management control techniques for effective planning and forecasting
- To provide an overview of human resource accounting and responsibility accounting

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	outline fundamental concepts of Management Accounting as a decision-making tool in business	K1
CO2	interpret the financial information for management planning and coordination	K2
CO3	measure the actuals and compare with management standards for decision making	K3
CO4	analyze and compare financial data for rational decision-making and control	K4
CO5	evaluate the effectiveness of managerial control techniques	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Management Accounting – A Decision Making Tool 1.1 Meaning and Emergence of Management Accounting	K1-K2	2	1-5
	1.2 Definition, Need, Importance and Objectives of Management accounting	K1-K2	1	1-5
	1.3 Difference between Management Accounting and Financial accounting	K1-K2	1	1-5
	1.4 Functions of Management Accountant	K1-K2	1	1-5
2	Budgets and Budgetary Control 2.1 Meaning of Budget, Objectives of Budgetary Control, Essentials of Successful Budgetary Control	K1-K2	6	1-5
	2.2 Classification of Budgets - Sales Budget, Production Budget, Materials Budget, Cash Budget, Flexible Budget	K1-K5	7	1-5
	2.3 Introduction to Zero Based Budgeting (ZBB)	K1-K5	2	1-5
3	Marginal Costing and its Applications 3.1 Definition, Meaning and Features of Marginal Costing	K1-K2	1	1-5
	3.2 Cost Volume Profit Analysis – Fixed Cost, Variable Cost, Contribution, Profit-Volume Ratio, Margin of Safety, Break-Even Point	K1-K5	8	1-5
	3.3 Applications of Marginal Costing – Key Factor, Make or Buy, Plant Merger Decision, Product Mix or Sales Mix Decision, Export Decision, Selling below Cost Decision, Plant Purchase Decision, Product Elimination Decision	K1-K5	9	1-5
4	Standard Costing and Variance Analysis 4.1 Meaning - Standard Cost and Standard Costing, Importance of Standard Costing as a Management Tool	K1-K2	2	1-5
	4.2 Variance Analysis - Material, Labour, Overhead and Sales Variances	K1-K5	10	1-5
5	5.1 Network Analysis 5.1.1. Use of PERT and CPM in Decision Making	K1-K5	3	1-5
	5.1.2 Calculation of Floats, Crashing – Time and Cost Overrun	K1-K5	5	1-5
	5.2 Responsibility Accounting 5.2.1 Concept of Responsibility Accounting	K1-K2	1	1-5
	5.2.2 Responsibility Centers – Cost Centre, Revenue Centre, Profit Centre, Investment Centre, Responsibility Performance Reporting.	K1-K3	2	1-5
	5.3 Recent Developments in Reporting 5.3.1 Value Added Statement, Economic Value Added, Market Value Added, Shareholders' Value Added	K1-K5	3	1-5
	5.3.2 Human Resource Accounting	K1-K5	1	1-5

BOOKS FOR STUDY

Maheshwari S.N., *Principles of Management Accounting*, New Delhi: Sultan Chand, 2021
Reddy T.S and Murthy A, *Management Accounting*, Chennai: Margham Publications, 2023
Vittal P.R and Malini.V, *Operations research*, Margham Publications, 2012

BOOKS FOR REFERENCE

Atkinson, Anthony A. and Kaplan, Robert, *Advanced Management Accounting*, Pearson Education India, 2015
Walther, Larry M., *Managerial Accounting*, Createspace Publishers, 2018
Horngren, Charles T., Sundem, Gary L. and William O. Stratton, *Introduction to Management Accounting*, Prentice Hall of India, 2006
Garison, R.H. and Noreeb, E.W., *Managerial Accounting*, McGraw Hill, 2000
Hilton, Ronald W., *Managerial Accounting*, McGraw Hill Education, 2006
Lal, Jawahar, *Advanced Management Accounting*, Text, Problems and Cases, New Delhi: S. Chand & Co., 2009
Kapoor V.K *Operations Research*, Sultan Chand and Sons, 2018

JOURNALS

Journal of Management Accounting Research.
Journal of Cost Accounting Research

WEB RESOURCES

www.icaai.org
www.cimaglobal.com
www.icmai.in

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 Theory and 1 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (only problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question (only problem, internal choice) 1 K4 question (only problem, internal choice)
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems, internal choice) 2 K4 questions (Only Problems, internal choice)
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23AF/MC/TD34												
	Course Title: Tools for Managerial Decision Making												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	3	3	1	3	3	3	2	3	2	3
CO 2	2	3	1	3	3	1	2	3	3	2	3	2	3
CO 3	2	3	1	3	3	1	2	3	3	2	3	2	3
CO 4	2	3	1	3	3	1	2	3	3	2	3	2	3
CO 5	2	3	1	3	2	1	2	3	3	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS LAW

CODE:23AF/MC/BL33

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To introduce the provisions of Indian Contract Act.
- To familiarize the students with the principles of law that is essential to manage business transactions
- To provide students an understanding of Limited Liability Partnership.
- To expose students to the law pertaining to Intellectual Property Rights.
- To enable students to understand the provisions relating to the Sale of Goods Act.
-

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	understand the provisions relating to general and special contracts	K1,K2
CO2	identify the legal aspects and operations of business	K3
CO3	explain principles to be applied for various contracts	K4
CO4	analyze laws involved in business operations	K5
CO5	interpret the legal obligations by applying the provisions of Contract Act	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Contract Act 1872			
	1.1 Meaning and Types of Contract	K1-K4	3	1-3
	1.2 Essentials of a Valid Contract- Offer and Acceptance, Consideration, Capacity of Parties, Free Consent, Legality of Object.	K1-K5	3	1-4
	1.3 Performance of Contract	K1-K4	3	1-3
	1.4 Discharge of Contract, Remedies for Breach of Contract	K1-K6	3	1-5

UNIT	CONTENT	CL	HRS	CO
2	Special Contracts			
	2.1 Contract of Indemnity and Guarantee	K1-K3	2	1-2
	2.1.1 Difference between Indemnity and Guarantee	K1-K4	2	1-3
	2.1.2 Rights, Liabilities and Discharge of Surety	K1-K6	2	1-5
	2.2 Contract of Bailment and Pledge	K1-K6	2	1-5
	2.2.1 Rights and Duties of Bailor and Bailee, Pledger and Pledge			
	2.2.2 Termination of Bailment.	K1-K2	2	1-5
3	Sale of Goods Act 1930			
	3.1 Essentials of a Contract of Sale	K1-K6	2	1-5
	3.2 Conditions and Warranties	K1-K6	2	1-5
	3.3 Transfer of Ownership and Delivery of Good	K1-K6	2	1-5
	3.4 Performance of Contract of Sale.	K1-K4	2	1-3
	3.5 Rights of an Unpaid Seller	K1-K6	2	1-5
4	Limited Liability Partnership Act, 2008 (LLP)			
	4.1 Salient Features of LLP, Difference Between LLP, Partnership and Company	K1-K6	2	1-5
	4.2 Partners and Designated Partners – Relations	K1-K4	2	1-3
	4.3 Incorporation - Incorporation by Registration, Registered Office of LLP and Change of Name, Extent and Limitation of Liability of LLP and Partners	K1-K6	3	1-5
	4.4 Conversion to LLP, Winding Up and Dissolution	K4-K6	3	3-5
5	Law Relating to Intellectual Property			
	5.1 Provisions Relating to Patents, Trademarks and Copyrights	K1-K6	4	1-5
	5.2 Overview of Laws Relating to other Intellectual Property Rights	K1-K6	4	1-5
	5.3 Enforcement of Intellectual Property Rights	K4-K6	2	3-5

BOOKS FOR STUDY

Kapoor N.D., *Business Law*. New Delhi: Sultan Chand & Sons, 2020.

Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, New Delhi, S.Chand, 2013

BOOKS FOR REFERENCE

Tulsian, P.C, *Business Law*, Tata McGraw Hill, New Delhi, 3rd edition.

Sharma, J.P., and Kanojia, Sunaina. *Business Laws*, Ane Books Pvt. Ltd., New Delhi.

Chadha, P.R, *Business Law*, Galgotia Publishing Company, New Delhi

Maheshwari & Maheshwari, *Business Law*, National Publishing House, New Delhi.

JOURNALS

Indian Business Law Journal

A.P.L.J. Andhra Pradesh Law Journal

Journal of Business Law Limited Partnership

Journal of Intellectual Property Rights

WEB RESOURCES

www.legalservicesindia.com

www.indilaw.com

www.amritt.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/BL33												
	Course Title: Business Law												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	1	2	1	2	3	3	2	1
CO 2	3	3	2	3	3	1	1	2	2	3	3	2	1
CO 3	3	3	2	3	3	2	1	1	2	3	2	1	1
CO 4	3	3	2	3	3	1	1	1	2	3	2	1	1
CO 5	3	3	2	3	2	1	1	1	2	2	2	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS ETHICS AND CORPORATE GOVERNANCE

CODE:23AF/MC/BE33

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To familiarize students with the understanding and practices of business ethics.
- To provide the students an understanding of ethical issues related to business and governance necessary for long term survival of business.
- To acquaint students with the socially responsible activities undertaken by the corporate companies.
- To give the students a comprehensive framework of corporate governance.
- To enable the students to possess knowledge on business policies.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the morals and values of business ethics	K1, K2
CO2	identify the concepts and practices of business ethics and corporate governance.	K3
CO3	apply the code of ethics in the business domain.	K4
CO4	analyze the impact of ethics on competitive strategy	K5
CO5	evaluate the role and responsibilities of corporate governance.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	An Overview of Business Ethics 1.1 Definition and Concept of Ethics, Morals and Values; Ethics and Indian Ethos; Indian Ethos and Games	K1 - K4	2	1-4
	1.2 Business Ethics; Characteristics of Business Ethics; Need and Importance of Business Ethics; Sources of Business Ethics; Causes of Unethical Behavior and Ethical Abuses.	K1 – K5	3	1-5
	1.3 Guidelines for developing Code of Ethics; Ethics Committee; Work ethics; Public Good	K1 - K4	2	1-4
	1.4 Ethical Dilemmas in Business, Right versus Right and Right versus Wrong Ethical Dilemma, Concepts like – Conflict of Interest, Self - Serving Bias, Moral Equilibrium	K1 – K5	3	1-5
2	Ethics in Management and Corporate Frauds 2.1 Impact of Ethics on Competitive Business Strategy	K1 - K5	2	1-5
	2.2 Role of International Trade and Business Organizations in developing Business Ethics	K1 - K5	4	1-5
	2.3 Ethical Issues in the Indian Context and Case Studies with special emphasis on corporate frauds: Accounting Frauds Bank Frauds Employee Frauds	K1 - K5	4	1-5
	2.4 Preventive Measures adopted to Curb Frauds	K1 - K5	3	1-5
3	Conceptual Framework of Corporate Governance 3.1.1 Meaning and features of Corporate Governance	K1 - K5	3	1-5
	3.1.2 Evolution of Corporate governance; Principles of Corporate Governance	K1 - K5	2	1-5
	3.1.3 Importance of Corporate Governance and Elements of Good Corporate Governance	K1 - K5	2	1-5
	3.2 Levels of Governance Structure 3.2.1 Corporate governance and role, responsibilities and powers - Board of Directors, Corporate	K1 - K5	3	1-5
	3.2.2 Management Committee and Divisional Management Committee.	K1 - K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
4	Corporate Governance 4.1 Meaning, Principles and Four Pillars of Corporate Governance	K1- K5	2	1-5
	4.2 Evolution of the Concept of Corporate Governance– Committees Report	K1- K5	2	1-5
	4.3 Board Committees and their Functions– Role of Independent Directors and Women Directors	K1- K5	2	1-5
	4.4 Mandatory Reporting Requirements under the Companies Act 2013, read with Capital Market Regulations	K1- K5	2	1-5
5	Corporate Social Responsibility 5.1 Meaning and Nature	K1 - K5	2	1-5
	5.2 Importance and Legal Requirements – Reporting Requirement	K1 - K5	2	1-5
	5.3 Responsibilities towards Stakeholders - Shareholders, Employees, Consumers	K1 - K5	3	1-5
	5.4 Case Studies in CSR	K1 - K5	2	1-5

BOOKS FOR STUDY

Dr. Neeru Vasisht and Dr. Namita Rajput - *Corporate Governance values and ethics*, Taxmann Publications Pvt Ltd, New Delhi.
S. Sanakaran – *International Business & Environment*, Margham Publication, Chennai.
Dr.S.S. Khanka – *Business Ethics and Corporate Governance*, S. Chand Publication.
Sundar.K, *Business Ethics and Value*, Vijay Nichole Prints, Chennai.
Taxmann - *Corporate Governance*, Indian Institute of Corporate Affairs,
A.C. Fernando, K.P.Muralidharan & E.K.Satheesh – *Corporate Governance, Principles, Policies and Practices*, Pearson Education.

BOOKS FOR REFERENCE

Dr. K. Nirmala, Karunakara Readdy :*Business Ethics and Corporate Governance*, Himalaya Publishing House
Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University Press.
Kotler, Philip and Nancy Lee. *Corporate Social Responsibility – Doing the Most Good for Your Company and Your Cause*. Wiley – India.
Mathur,0 U.C. *Corporate Governance & Business Ethics*. Macmillan. Subhash Chandra Das, *Corporate Governance in India*. PHI.
NOTE: Latest edition of Books to be used.

JOURNALS

Journal of Corporate Governance Research
Indian Journal of Corporate Governance
Sage Journals

WEB RESOURCES

<https://elearningindustry.com>

<https://essentialskillz.com>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C - 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	$2 \times 15 = 30$	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/BE33												
	Course Title: Business Ethics and Corporate Governance												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	1	3	2	3	2	3	3	1
CO 2	3	3	2	3	3	1	3	2	3	3	3	3	1
CO 3	3	2	2	3	3	2	3	2	2	3	3	3	1
CO 4	3	3	1	3	3	1	3	2	1	3	3	3	1
CO 5	3	3	3	3	3	1	3	2	2	3	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Com. (A&F) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMMERCE

CODE: 23MT/AC/MT35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts pertaining to the discipline of commerce
- To employ different techniques to solve problems pertaining to matrices, equations and LPP
- To appreciate the concept of numerical differentiation and integration as an alternate tool to solve problems on differentiation and integration
- To promote problem solving skills and quantitative analysis
- To model and solve real time problem using linear programming method

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall and define the basic mathematical concepts on matrices, equations, differentiation, integration and linear programming problem	K1
CO2	understand and compare the concepts relating to matrices, polynomials, numerical methods and linear programming problem	K2
CO3	utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CO4	analyse and examine the problem relating to the applications of matrices, differentiation, integration and optimization	K4
CO5	evaluate solutions to the problems related to matrices, equations, differentiation, integration and linear programming problem	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Matrices 1.1 Types of Matrices 1.2 Characteristic Equation of a Matrix 1.3 Cayley - Hamilton Theorem (without proof) 1.4 Eigen Values and Eigen Vectors 1.5 Diagonalization of 3×3 Matrices with Distinct Eigen Values	K1- K5	13	CO1-5
2	Theory of Equations 2.1 Formation and Solution of Equation with Imaginary and Irrational Roots 2.2 Relation between Roots and Coefficients 2.3 Solution of Equations under given Conditions 2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients 2.5 Reciprocal Equations	K1-K5	14	CO1-5
3	Numerical Methods Algebraic and Transcendental Equations 3.1 The Bisection Method 3.2 Newton - Raphson Method Simultaneous Equations 3.3 Gaussian Elimination Method 3.4 Gauss Jordan Elimination Method 3.5 Gauss Jacobi Iteration Method 3.6 Gauss Seidal Iteration Method	K1-K5	13	CO1-5
4	Numerical Differentiation and Numerical Integration 4.1 Derivatives using Newton's forward difference Formula 4.2 Derivatives using Newton's backward difference Formula 4.3 Trapezoidal Rule 4.4 Simpson's One Third Rule 4.5 Simpson's Three Right Rule	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
5	Linear Programming Problem 5.1 General L.P.P. 5.2 Canonical and Standard Forms of L.P.P. 5.3 The Simplex Algorithm 5.4 The Big-M method	K1-K5	13	CO1-5

BOOKS FOR STUDY

S, Arumugam, et al. *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017.

Chapter 3 Sections 3.3, 3.5

Chapter 4 Sections 4.3, 4.4, 4.7, 4.8

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to concepts only)

V, Sundaresan, et al. *Resource Management Techniques*. Chennai: A.R. Publications, 2014.

Chapter 3 Sections 3.1.1 – 3.1.4, 3.2.1

S G, Venkatachalapathy. *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016.

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

BOOKS FOR REFERENCE

A, Abdul Rasheed. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008.

S, Kalavathy. *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

S, Sankarappan, et al. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

WEB RESOURCES

<https://youtu.be/w8i89ftfZPI?si=HlaO4tYZ9ge9zPxx>

https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SMT1302.pdf

<https://www.math.ucla.edu/~tom/LP.pdf>

<http://www.math.iitb.ac.in/~baskar/book.pdf>

<http://ncert.nic.in/ncerts/l/lemh206.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:**Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MT35												
	Course Title: MATHEMATICS FOR COMMERCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	1	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	1	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	1	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	1	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	1	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023–2024)

CORPORATE ACCOUNTING AND RESTRUCTURING

CODE: 23AF/MC/CR44

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To expose students to the accounting practices in the corporate sector
- To understand the methods of valuation of shares and goodwill
- To acquaint students with the accounting procedures for mergers and acquisitions
- To equip students with the ability to prepare consolidated financial statements
- To provide an understanding of the provisions relating to liquidation of a company

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recall statutory provisions relating to corporate accounting	K1
CO2	understand concepts and principles of Corporate Accounting	K2
CO3	examine financial consequences of various corporate reconstruction strategies	K3
CO4	analyze financial statements to assess a company's liquidity, solvency and profitability.	K4
CO5	evaluate the financial position of the company	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Valuation of Shares and Goodwill			
	1.1 Meaning, Need and Factors to be considered for valuing Goodwill and Shares	K1-K2	1	1-2
	1.2 Methods of Valuation of Shares - Intrinsic Value, Yield Value, Earning Capacity and Fair Value	K1-K5	4	1-2
	1.3 Methods of Valuation of Goodwill – Average Profits, Super Profit, Capitalization of super profit and Annuity Method.	K1-K5	5	1-2

UNIT	CONTENT	CL	HRS	CO
2	Holding Company Accounts 2.1 Preparation of Consolidated Balance Sheet – Calculation of Minority Interest, Capital Profit and Goodwill or Cost of Control	K1 – K5	6	1-5
	2.2 Intercompany Owings with One Subsidiary Company	K1 – K5	6	1-5
	2.3 Dividend Received and Bonus Shares	K1 – K5	3	1-5
3	External Reconstruction 3.1 Meaning and Difference	K1-K2	1	1-5
	3.2 Calculation of Purchase Consideration for Amalgamation in the Nature of Merger and Purchase	K1 - K5	2	1-5
	3.3 Accounting Entries and Preparation of Balance Sheet	K1 – K5	12	1-5
4	Internal Reconstruction 4.1 Alteration of Share Capital – Types – Accounting Procedure.	K1-K2	2	1-5
	4.2 Alteration, Reduction of Share Capital, Surrender and Forfeiture	K1 – K5	6	1-5
	4.3 Accounting Entries and Preparation of Balance Sheet after Internal Reconstruction	K1– K5	7	1-5
5	Liquidation 5.1 Meaning	K1-K2	1	1-5
	5.2 Preparation of Statement of Affairs	K1-K5	3	1-5
	5.3 Liquidator's Final Statement of Account	K1-K5	6	1-5

BOOKS FOR STUDY

Reddy, T.S. & Murthy, A., *Corporate Accounting Vol II Revised*, Chennai: Margham Publications, 2023

Maheshwari, S.N., Maheshwari, Suneel K., and Maheshwari, Sharad K., *Corporate Accounting*, Vikas Publishing House, 2018

BOOKS FOR REFERENCE

Goyal , V.K. and Goyal, Ruchi, *Corporate Accounting*, Prentice Hall Learning, 2012 Shukla, S.M. and Gupta, K.L., *Corporate Accounting*, Sahitya Bhawan Publications, 2018 Gupta, R.L. and Radhaswamy, M., *Corporate Accounting Vol. I and II*, Sultan Chand & Sons, 2013 Jain, S.P. Narang, K.L, *Advanced Accountancy Corporate Accounting Vol. II*, Kalyani Publishers, 2014

Hanif, M. and Mukherjee, A., *Corporate Accounting*, McGraw-Hill Education, 2017

JOURNALS

Advances in Accounting Journal of Finance

Indian Journal of Commerce

Journal of Corporate Accounting and Finance

WEB RESOURCES

www.icaai.org

www.emeraldgroupublishing.com

www.journals.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (3 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question (only problem, internal choice) 1 K4 question (only problem, internal choice)
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x2 =10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not exceeding 150 words	K2 (20)	4x5 =20	4 K2 questions	6 K2 questions (1 Theory and 5 Problems)
C	K3, K4 (40)	4x10 =40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems, internal choice) 2 K4 questions (Only Problems, internal choice)
D	K5 (30)	2 x15 =30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

Mapping of Course Outcomes (Cos)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/CR44												
	Course Title: Corporate Accounting and Restructuring												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	2	3	3	2	3	2	3
CO 2	3	3	2	3	3	2	2	3	3	2	3	2	3
CO 3	2	3	2	3	3	2	2	3	3	2	3	2	3
CO 4	3	3	2	3	3	2	2	3	3	2	3	2	3
CO 5	2	3	2	3	3	2	2	3	3	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

BANKING AND INSURANCE

CODE: 23AF/MC/BI43

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To expose students to the concepts and practices adopted in the banking industry.
- To educate students about the practical relevance and importance of banking.
- To expose students to various concepts of both life and general insurance.
- To provide a basic understanding of the insurance mechanism.
- To understand the preparation of bank and insurance accounts.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the concepts and practices of banking and insurance.	K1, K2
CO2	identify the recent developments in financial services.	K3
CO3	analyse the final accounts of bank and insurance companies.	K4
CO4	acquire skills and competencies required to be employed in banking and insurance companies.	K5
CO5	demonstrate practical knowledge in the fields of banking and insurance.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNITS	CONTENT	CL	HRS	CO
1.	Introduction to Banking 1.1 Meaning, Definition and Developments of Commercial Banking	K1-K3	2	1-2
	1.2 Banking Functions and Services – Fund Based and Fee based.	K1-K6	3	1-5
	1.3 Banking Practices – Opening and Closing of Bank Accounts, Documents relating to Banking Transactions	K1-K6	3	1-5
	1.4 Negotiable Instruments - Cheque, Promissory Note and Bills of Exchange.	K1-K6	2	1-5
2.	Developments in banking 2.1 E-Banking – Meaning, Importance, Merits and Demerits	K1-K6	2	1-5
	2.2 Internet Banking, Mobile Banking, Tele-Banking, Rural Banking and Retail Banking	K1-K6	3	1-5
	2.3 Debit card, Credit card, ATM Card, Digital Wallet and Smart card	K1-K6	2	1-5
	2.4 Electronic Payment System - Electronic Clearing Service and Electronic Fund Transfer.	K1-K6	3	1-5
3.	Banking Company Accounts 3.1 Treatment of Rebate on Bills Discounted	K1-K6	5	1-5
	3.2 Computation of Provision to be made for Advances, Computation of Profit and Loss Account with Schedules, Preparation of Balance sheet with Schedules.	K1-K6	5	1-5
4.	Introduction to Insurance 4.1 Insurance: Definition, Need, Functions & Principles	K1-K6	3	1-5
	4.2 Types of Insurance Products - Life & General insurance	K1-K6	3	1-5
	4.3 Intermediaries in Insurance Contracts and Procedure for Settlement of Claims	K1-K6	3	1-5
	4.4 Overview of Insurance Regulatory and Development Authority Act 1999	K1-K6	3	1-5
5.	Insurance Company Accounts 5.1 Accounts of General Insurance	K1-K6	5	1-5
	5.2 Accounts of Life insurance Companies	K1-K6	5	1-5

BOOKS FOR STUDY

Gurusamy. S, *Financial Services*, Tata McGraw Hill Education Pvt. Ltd, 2009.
Sundaram K.P.M. and Varshney P. N., *Banking Theory Law and Practice*, 18th Edition, New Delhi, Sultan Chand & Sons, 2015
Reddy, T.S & Murthy, A., *Corporate Accounting*, Vol II, Chennai, Margham Publications, 2023

BOOKS FOR REFERENCE

Sethi, J., & Bhatia, N. *Elements of Banking and Insurance*. New Delhi, India: PHI Learning Private Limited. 2012.
Gurusamy S. *Financial Services and Markets*, Chennai, Vijay Nicole Imprints Pvt. Ltd., 2014.
Khan M.Y., *Financial Services*, Second Edition, New Delhi, Tata McGraw Hill Publishing Pvt. Ltd., 2013.
Machiraju H. R. Second Edition, *Indian Financial System*, New Delhi, Vikas Publishing House Pvt. Ltd, 2019.
Bhalla. V.K., *Management of Financial Services*, 1st edition, New Delhi, Anmol Publications Pvt. Ltd., 2006.
Gupta, P. K.. *Fundamentals of Insurance*. New Delhi: Himalaya Publishing House. Insurance Institute of India, *Principles of Insurance*, Mumbai, 2012.

JOURNALS

Asian Journal of Research in Banking and Finance
Indian Journal of Finance
Journal of Banking, Information Technology and Management
Journal of Bank Management

WEB RESOURCES

<https://www.india-financing.com/indo1.html><http://www.languages.ind.in/factoring.htm><http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?ID=243>
<https://www.irda.gov.in/>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 theory question, internal choice 1 K4 question, only problem, internal choice
D – Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 K5, K6 question	2 questions with sub divisions for K5 & K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 Theory questions, internal choice 2 K4 questions only problems, internal choice
D -1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 Theory questions 2 K6 questions, only problems
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/BI43												
	Course Title: Banking and Insurance												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	1	1	3	2	3	1	1
CO 2	2	3	3	3	3	3	1	1	3	2	3	3	3
CO 3	3	3	2	3	2	2	1	1	3	3	3	1	2
CO 4	3	3	3	3	3	3	1	1	3	2	3	2	3
CO 5	3	3	2	3	3	3	1	1	3	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE LAW

CODE:23AF/MC/CL43

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To familiarize the students with the formation and features of the company
- To expose the students to regulatory compliance and proceedings of the company
- To provide the students with an overview of the management and administration of a company
- To educate the students on the scope of corporate reorganization.
- To acquaint the students with the challenges that arise in the practice of corporate law

COURSE LEARNING OUTCOME

On successful completion of the course, the students will be able to:

COs	DESCRIPTION	CL
CO1	recall the basic concepts and legal principles of corporate law in formation of company	K1, K2
CO2	apply the provisions in the legal proceedings of company practices	K3
CO3	examine the legal issues and disputes in the corporate context using appropriate legal framework and precedents	K4
CO4	appraise the impact of corporate law on different stakeholders, including shareholders, directors, and creditors	K5
CO5	discuss corporate reorganization measures and valuation	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Definition, Characteristics and Types	K1-K3	2	1-2
	1.2 Lifting of the Corporate Veil	K3-K6	2	2-5
	1.3 Incorporation of a Company	K1-K6	2	1-5
	1.4 Memorandum of Association and Articles of Association	K1-K6	2	1-5
	1.5 An overview of Ministry of Corporate Affairs -21	K1-K6	2	1-5
	1.5.1 SPICe+ Forms	K1-K6	2	1-5
	1.5.2 Digital Signature	K1-K3	1	1-5

UNIT	CONTENT	CL	HRS	CO
2	Raising of Capital			
	2.1 Prospectus – Definition, Contents, Mis-statements in Prospectus and Consequences	K1-K6	3	1-5
	2.2 Shares - Meaning, Nature and Types of Shares, Application and Allotment, Transfer and Transmission of Shares	K1-K5	3	1-4
	2.3 Debentures-Nature and Classes of Debentures	K1-K3	2	1-2
3	Management and Administration			
	3.1 Board of Directors – Appointment, Removal, Powers, Duties and Liabilities	K1-K5	3	1-4
	3.2 Director Identification Number, Number of Directorship, Women Directors and Independent Directors	K1-K3	3	1-3
	3.3 Appointment of Key Managerial Personnel; Managing and Whole-Time Directors, Manager, Chief Executive Officer, Chief Financial Officer and Company Secretary	K1-K6	3	1-5
	3.4 Meetings – Board and Committee Meeting, Requisites for a valid meeting	K1-K6	3	1-5
	3.5 Resolution - Types	K1-K6	3	1-5
4	Corporate Reorganization			
	4.1 Introduction of Corporate Reorganization and Characteristics, Types of corporate restructuring strategies.	K1-K6	2	1-5
	4.2 Corporate de-merger and divisions- Difference between de-merger and reconstruction	K1-3	2	1-2
	4.3 Financial defensive measures, coercive offensive defense, Anti-takeover amendments	K4	2	2
	4.4 Post merger re-organization: Accomplishment of objectives, Post-merger valuation, measuring post-merger efficiency	K3-K6	2	1-5
5	Winding Up			
	5.1 Definition and purpose of winding up	K1-K2	2	1
	5.2 Types - Voluntary winding up	K1-K6	2	1-5
	5.2.1 Winding up subject to the supervision of the court	K3-K6	2	1-5
	5.2.2 Overview of Insolvency and Bankruptcy code	K1-K4	2	1-3

BOOKS FOR STUDY

Kapoor, N.D., *Company Law*. New Delhi: Sultan Chand, 2019

Zad, N.S and Bajpai, Divya, *Taxmann's Company Law*. Taxmann Publication, 5th edition, 2023

BOOKS FOR REFERENCE

Bhandari, Munish, *Professional Approach to Corporate Laws and Practice*, New Delhi: Bharat Law House.
Pillai, R.S.N. and Bagavathy, *Legal Aspects of Business*, S Chand Publication, 2011.

JOURNALS

Indian Journal of Law and Technology
Symbiosis Contemporary Law Journal
SEBI Corporate Laws

WEB RESOURCES

ijclp.com
www.lawctopus.com
www.indialawworld.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:		Total Marks: 50	Duration: 90 minutes	
Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A- Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making
Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x2 =10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x5 =20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 =40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/CL43												
	Course Title: Corporate Law												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	1	3	3	3	3	3	3
CO 2	3	3	2	2	2	1	1	3	2	2	3	1	1
CO 3	3	3	2	2	2	2	1	3	3	3	3	1	1
CO 4	3	3	2	2	1	1	1	3	2	3	3	2	1
CO 5	3	3	2	2	1	1	1	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023–2024)

FINANCIAL TECHNOLOGY

CODE:23AF/MC/FT43

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide students with an overview of financial technology
- To educate students on the need for central digital currency
- To expose students to the current practices in digital payments, cryptocurrency and blockchain technology
- To provide an insight into the risks and opportunities of financial technology
- To provide a working knowledge of Fin-Tech regulation.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall the concepts and need for financial technology	K1,K2
CO2	identify the need for regulations in financial technology	K3
CO3	apply the principles and practices of financial technology	K4
CO4	analyze trends in cryptocurrencies and block chain	K5
CO5	elaborate the framework of financial technology and its utility in different fields	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial technology: 1.1 Meaning, characteristics and evolution of fintech	K1-K6	2	1-5
	1.2 Fintech Transformation, Emerging sectors in Fintech, opportunities and challenges.	K1-K6	3	1-5
	1.3 Fintech and its various applications.	K1-K6	3	1-5
2	Payments, Cryptocurrencies and Block Chain 2.1 Introduction to Digital financial services.	K1-K6	3	1-5
	2.2 Mobile Money-Regulations of Mobile money-SFM-RTGC-NEFT-NDS system	K1-K6	4	1-5

UNIT	CONTENT	CL	HRS	CO
	2.3 Cryptocurrencies-Legal and Regulatory implications of Cryptocurrencies, Bitcoin mining and security	K1-K6	3	1-5
	2.4 Blockchain-paper block, chain of blocks nodes and networks	K1-K6	3	1-5
3	FinTech Regulation and RegTech 3.1 Introduction - FinTech Regulations Evolution of RegTech, RegTech Ecosystem: Financial Institutions	K1-K6	3	1-5
	3.2 RegTech Ecosystem- Ensuring Compliance from the Start, Suitability and Funds, RegTech Startups	K1-K6	3	1-5
	3.3 RegTech Ecosystem: Regulators Industry, AI in Smart Regulation and Fraud Detection	K1-K6	3	1-5
	3.4 Regulatory Sandboxes – Smart Regulation	K1-K6	2	1-5
4	Digital Finance and Alternative Finance 4.1 Introduction – Brief History of Financial Innovation	K1-K6	2	1-5
	4.2 Emerging technologies - AI and IoT, open banking and APIs	K1-K6	2	1-5
	4.3 P2P lending, digital wallet, authenticated tracing, payment challenges and lending fraud.	K1-K6	4	1-5
	4.4 Crowdfunding models- equity, rewards and donation	K1-K6	2	1-5
5	Data & Technology 5.1 Introduction - History of Data Regulation – Data in Financial Services	K1-K6	3	1-5
	5.2 Data Analytics in Finance	K1-K6	3	1-5
	5.3 Methods of Data Protection: GDPR Compliance and Personal Privacy	K1-K6	4	1-5

BOOKS FOR STUDY

Augustin Rubini, *Fintech in a Flash: Financial Technology Made Easy*, Zaccheus, 3rd Edition, 2018.

Susanne Chishti and Janos Barberis, *The FINTECH Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries*, John Wiley, 1st Edition, 2016

BOOKS FOR REFERENCE

Swanson, Seth, *FinTech: For Beginners! Understanding & Utilizing The Power Of Financial Technology*, Create space Independent Pub

Arjunwadkar, Parag Y, *FinTech: The Technology Driving Disruption in the Financial Services Industry*, Auerbach Publications, 2018.

Hayen, Richard, *FinTech: The Impact and Influence of Financial Technology on Banking and the Finance Industry*, Create space Independent Publications, 2016

JOURNALS

Journal of Banking and Financial Technology

The Journal of FinTech

WEB RESOURCES

www.investopedia.com

www.securitiesfinancetimes.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D -Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D – Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/FT43												
	Course Title: Financial Technology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	2	2	3	1	2	2	1
CO 2	3	3	2	3	3	3	2	2	3	1	2	2	1
CO 3	3	3	2	3	3	3	2	2	3	2	2	2	1
CO 4	3	3	2	3	3	3	2	2	3	2	2	2	1
CO 5	3	3	2	3	3	3	2	2	3	1	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023– 2024)

INTRODUCTION TO FINANCIAL ANALYTICS AND ITS APPLICATIONS

CODE: 23AF/AC/FI45

CREDITS:5

LTP: 2 0 3

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To comprehend and analyze a business opportunity and convert it into a viable analytics proposition
- To expose students to analytics solutions to assess their effectiveness
- To provide a strong foundation in financial analytics in order to handle complex financial data
- To provide an understanding of advanced analytical models and comprehensive reports.
- To provide the knowledge and practical skills necessary to develop a strong foundation on machine learning

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list the finance, qualitative and quantitative techniques and methodologies, based on machine learning concepts	K1
CO2	classify and assess the performance of financial models through the use of analytical methods and risk modeling techniques	K2
CO3	apply different financial analytics methods and use the appropriate techniques for specific data analysis tasks.	K3
CO4	analyze the accuracy and validity of financial analytics models, and assess the impact of data quality.	K4
CO5	design and implement financial analytics projects using financial analytics tools.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Business Analytics and Machine Learning			
	1.1 Concept of analytics, Types of Analytics, Application fields - Marketing Analytics, Finance Analytics, HR Analytics, Operation Analytics	K1-K5	4	1-5
	1.2 Definition and Objectives of Machine Learning - Features and Components of Machine Learning - Types of Machine Learning – Supervised – Unsupervised – Reinforcement. Learning - Techniques and Predictive Models – Deployment of Solution – Strategic Solution	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
2	Financial Analytics			
	2.1 Introduction – Importance & Types of Financial Analytics	K1-K5	3	1-5
	2.2 Fundamental Analysis – Technical Analysis	K1-K5	3	1-5
	2.3 Features and Component of Financial Analytics	K1-K5	2	1-5
	2.4 Financial Analytics and Data Analysis - Sales and Revenue Analytics – Profitability Analytics, Cash Flow Analytics, Risk Analytics – Credit Risk and Market Risk Analytics	K1-K5	2	1-5
	2.5 Credit Ratings – Customer Attrition Analysis – GARCH Models	K1-K5	2	1-5
3	Analytics Methodology			
	3.1 Introduction to Analytics Methodology, preparing objectives & identifying data requirements, Data Collection Understanding data, organization and source of data	K1-K5	5	1-5
	3.2 Types of Data Sources- Structured Vs Semi Structured Vs Unstructured data, Data Warehouse Vs Databases, Relational Database Vs Non-Relational Database, RDBMS Data structures, Columnar Data structures. Data Mining meaning, Association Rules and clustering, Decision trees, Random forests	K1-K5	5	1-5
	3.3 Data preparation – Data Cleansing, Normalisation, Data preparation, Data Blending, Data Modelling, Evaluation & feedback	K1-K5	3	1-5
	3.4 Importance of data quality, dealing with missing or incomplete data, Role of Data Scientist in Business & Society	K1-K5	2	1-5
4	Programming Languages for Data Analytics			
	4.1 Programming Languages - Types of Programming language	K1-K5	5	1-5
	4.2 Programming Languages used for Data Analytics - Excel, SQL, Python and R	K1-K5	4	1-5
	4.3 Basics of SQL - Installation, Working in Command line with Create, Insert, Select Commands.	K1-K5	6	1-5
5	Future Trends in Analytics			
	5.1 Role of Artificial Intelligence in Business, Machine Intelligence, Competitive Intelligence, Text Mining	K1-K5	3	1-5
	5.2 Web Analytics (Web content mining, Web usage mining, Web structure mining),	K1-K5	3	1-5
	5.3 Role of Intelligent Agents in Business	K1-K5	4	1-5
	5.4 Introduction to Web Scraping, Need and usage of web scraping. Web Scraping and Web Crawling.	K1-K5	3	1-5
	5.5 Ethical and Legal considerations in Financial Analytics.	K1-K5	2	1-5

BOOKS FOR STUDY

Dixon, Matthew F., Halperin, Igor, Bilokon, Paul, *Machine Learning in Finance*, O'Reilly, 2019.

Mehryar Mohri, Afshin Rostamizadeh, and Ameet Talwalkar, *Foundations of Machine Learning* MIT Press, Second Edition, 2018.

Jacques, Ian, *Mathematics for Economics and Business*, Pearson Education, 2009

James, G., Witten, D., Hastie, T., & Tibshirani, R., *An Introduction to Statistical Learning*, Springer Publications, 2013

BOOKS FOR REFERENCE

Shai Shalev-Shwartz and Shai, Ben-David, *Understanding Machine Learning*, Cambridge University Press. 2017.

Kabakoff, Robert I, *R In Action – Data Analysis and Graphics with R*, Manning Publications, 2015

Wickham, Hadley and Grolemund, Garrett, *R for Data Science*, Schroff/O'Reilly Publications, 2017

Gardener, Mark, *Beginning R: The Statistical Programming Language*, John Wiley & Sons, 2012

Lander, Jared P., *R for Everyone: Advanced Analytics and Graphics*, Pearson Education, 2014

JOURNALS

The R Journal

International Journal of Data Science and Analytics

EPJ Data Science

Journal of Data Science

WEB RESOURCES

www.rstudio.com/online-learning/

zoonek2.free.fr/UNIX/48_R/all.html

www.r-bloggers.com/

<https://stats.idre.ucla.edu/r/>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Theory

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
	Total	20	7	8

Practical

A	K3 (10)	1 x10 =10	1 K3 question	1 K3 question
B	K4, K5(20)	1x20=20	1 question with subdivisions with K4, K5	2 questions with subdivision for K4, K5
	Total	30	2	3

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Theory

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not exceeding 50 words	K1 (20)	$10 \times 2 = 20$	10 K1 questions	10 K1 questions
B – Not exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	5 K2 questions
	Total	40	14	15

Practical

A	K3 (20)	2 x10 =20	2 K3 questions	2 K3 questions
B	K4, K5(40)	2x20=40	2 question with subdivisions with K4, K5	3 questions with subdivisions with K4, K5
	Total	60	4	5

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/AC/FI45												
	Course Title: Introduction to Financial Analytics and its Applications												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	2	1	3	2	3	2	1
CO 2	3	3	2	3	3	3	2	1	3	2	3	2	1
CO 3	3	3	2	3	3	3	2	1	3	2	3	2	1
CO 4	3	3	2	3	3	3	2	1	3	2	3	2	1
CO 5	3	3	2	3	3	3	2	1	3	2	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023–2024)

INDIVIDUAL TAX ASSESSMENT

CODE:23AF/MC/IA54

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To acquaint students with the Income Tax Structure and its complexities.
- To introduce basic concepts of the Income Tax Act.
- To provide a broad conceptual framework for determining the taxable income
- To equip students with the knowledge required to compute the tax liability of an individual
- To educate students on tax planning and tax-saving strategies

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall concepts, principles and rules of taxation of individuals	K1
CO2	classify and compute incomes under different heads of income	K2
CO3	apply the provisions of income tax in computing total taxable income	K3
CO4	assess tax liability of individuals by applying income tax provisions	K4
CO5	suggest tax planning strategies and opportunities for individuals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate e		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Taxation			
	1.1 Meaning of Tax, Importance and Features of Taxation	K1-K2	1	1-4
	1.2 Types of Tax – Direct and Indirect	K1-K2	1	1-4
	1.3 Basic concepts – Person, Assessee, Assessment year, Previous year, Total income, Taxable Income	K1-K2	2	1-4
	1.4 Residential Status and Incidence of Tax.	K1-K5	6	1-4

UNIT	CONTENT	CL	Hrs	CO
2	2.1 Computation of Salary income 2.1.1. Definition, Meaning, Basis of Charge	K1 – K2	1	1-5
	2.1.2.Allowances – Taxable and Exempted	K1 – K5	2	1-5
	2.1.3.Perquisites, Other Receipts and Treatment of Provident Fund	K1 – K5	3	1-5
	2.1.4.Deductions	K1 – K5	2	1-5
	2.2. Computation of Income from House Property 2.2.1 Basis of Charge	K1-K2	1	1-5
	2.2.2 Computation of House Property Income	K1-K5	2	1-5
	2.2.3 Deductions	K1-K5	4	1-5
3	Profits and Gains of Business or Profession 3.1 Computation of Professional Income	K1-K5	2	1-5
	3.2 Depreciation – Meaning and Relevance – Computation	K1 - K5	3	1-5
	3.3 Computation of Business Income	K1 – K5	10	1-5
4	4.1 Capital Gains 4.1.1 Meaning of Capital Asset - Types of Capital Asset	K1-K2	1	1-5
	4.1.2 Computation of Short Term and Long Term Capital Gains	K1 – K5	3	1-5
	4.1.3 Exempted Capital Gains	K1 – K5	4	1-5
	4.2 Income from Other Sources 4.2.1 Basis of Charge, Casual and Other Income	K1 – K5	2	1-5
	4.2.2. Computation of Taxable Income from Other Sources	K1 – K5	5	1-5
5	Computation of Total Income 5.1 Set-off and Carry Forward of Losses	K1-K5	2	1-5
	5.2 Clubbing of Income	K1-K5	1	1-5
	5.3 Deductions - Individual	K1-K5	4	1-5
	5.4 Computation of Tax Liability	K1-K5	3	1-5

BOOKS FOR STUDY

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi: Kalyani Publishers
Singhania, Vinod K. and Singhania, Monica, *Students' Guide to Income Tax*, New Delhi:
Taxmann Publication

BOOKS FOR REFERENCE

Dinkar Pagare, *Law and Practice of Income Tax*, New Delhi: Sultan Chand Publications
Ahuja, Girish and Gupta, Ravi, *Systematic Approach to Income Tax*, New Delhi: Bharat Law House

Lal B.B. and Vashisht, N., *Income Tax Law and Practice*, New Delhi: IK International Publishing House

Mehrotra, H.C., *Income Tax Law and Accounts*, Agra: Sahithya Bhawan Publications

Singhania, Vinod K. and Singhania, Monica, *Students' Guide to Income Tax*, New Delhi: Taxmann Publication

NOTE: Latest edition of the readings may be used

JOURNALS

Journal of Taxation

Journal of Accounting and Taxation Journal of Indian Taxation

WEB RESOURCES

www.incometaxindia.gov.in

www.taxlawsonline.com

www.taxmann.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (3 problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question (only problem, internal choice) 1 K4 question (only problem, internal choice)
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems, internal choice) 2 K4 questions (Only Problems, internal choice)
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/IA54												
	Course Title: Individual Tax Assessment												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	2	2	3	1	3	2	2
CO 2	3	3	2	3	3	2	2	2	3	1	3	2	2
CO 3	3	3	2	3	3	2	2	2	3	1	3	2	2
CO 4	3	3	2	3	3	2	2	2	3	1	3	2	2
CO 5	3	3	2	3	3	2	2	2	3	1	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

COMPUTER AIDED FINANCIAL ANALYSIS

CODE: 23AF/MC/CF54

CREDITS: 4

L T P: 0 1 4

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To give practical exposure to tools adopted for financial analysis
- To educate on the effective and efficient application of various statistical tools associated with research in business fields
- To generate Accounting reports in Tally
- To expose to business data, monitor financial performance, and make informed decisions.
- To enable students to generate financial statements such as income statements, balance sheets, and cash flow statements using accounting software.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list the different modules and features available in Tally and Excel.	K1
CO2	understand the different modules and features available in Tally and Excel and how they can be used to manage financial transactions.	K2
CO3	apply Tally software and Excel techniques to record and manage financial transactions for business.	K3
CO4	analyze financial data in Tally and Excel to identify trends and patterns.	K4
CO5	develop analytical thinking and problem-solving skills.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Financial Statement Analysis and Business Forecasting using Excel	K1	1	1
	1.1 Introduction to Excel			
	1.2 Formatting Worksheets	K2-K3	2	2-3
	1.3 Mathematical and Statistical Operations, Text, Logical, Lookup and References using Excel Functions	K1-K5	5	1-5
	1.4 Presentation of Data in MS Excel using Graph, Tables and PIVOT table	K1-K5	5	1-5
	1.5 Named Ranges in MS Excel	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
2	2.1 Techniques of Financial Statement Analysis			
	2.1.1 Comparative Statements	K1-K5	2	1-5
	2.1.2 Common Size Statements	K1-K5	2	1-5
	2.1.3 Trend Percentages	K1-K5	2	1-5
	2.2 Preparation of Master Budgets	K1-K5	2	1-5
	2.3 Cash Flow Analysis	K1-K5	2	1-5
3	Business evaluation Techniques using Excel			
	3.1 Time value of money	K1	1	1
	3.2 Future and present value of money	K1-K5	3	1-5
	3.3 Future and present value of annuity	K1-K5	3	1-5
	3.4 evaluation techniques – Pay back period ,NPV and IRR techniques	K1-K5	3	1-5
5	Application of MS Excel in Statistics			
	4.1 Univariate analysis	K1-K3	2	1-3
	4.2 Correlation Analysis – Correlation Coefficient	K1-K5	3	1-5
	4.3 Regression Analysis – Regression Equations	K2-K5	2	2-5
	4.4 Testing of Hypothesis for Small Sample	K1-K5	3	1-5
	4.5 Application of Chi-Square Test – Test of goodness fit and Test of Independence	K1-K5	3	1-5
	4.6 Analysis of Variance	K1-K5	2	1-5
5	Accounting Package - Tally			
	5.1 Introduction to Tally	K1	1	1
	5.2 Creation, Alteration and Deletion of a Company	K1-K2	2	1-2
	5.3 Creation, Alteration and Deletion of Groups and Ledgers	K1-K2	2	1-2
	5.4 Accounting Vouchers – Types, Voucher Entry	K1-K4	5	1-4
	5.5 Preparation of Financial Statements – Day Book, Trial Balance, Profit and Loss Account and Balance Sheet - Moving Data to Excel from Tally	K1-K5	5	1-5

BOOKS FOR STUDY

Nadhani, A.K. and Nadhani K.K, *Implementing Tally 9*, BPB Publications, 2009.

Frye Curtis, *Microsoft Excel 2016 Step by Step*, Microsoft Press, 2015.

BOOKS FOR REFERENCE

Deepak Jain, *Computer Applications in Business*, Kolkata: Lawpoint Publications, 2008

Bodhanwala, J. Ruzbeh, *Understanding and Analysing Balance Sheets using Excel Worksheet*, Prentice Hall, 2004.

John, E. Hanker, Dean W. Wichern, Arthur G. Reitsch, *Business Forecasting*, Prentice Hall of India Pvt. Ltd., 2012.

Bernd Held, *Excel 2016 Functions & Formulas*, BPB Publications, 2015.

JOURNALS

Indian Journal of Computer Application

Journal of Statistical Software

Journal of Modern Applied Statistical Methods

Chilean Journal of Statistics

WEB RESOURCES

<http://www.ecommerce-digest.com/online-academic-journals.html><http://tutorial.html>

www.openlearningworld.com/books/

<https://www.tallyschool.com/free-tally-course-online/>

<https://tallysolutions.com/id/using-tally-want-learn/>

<https://excelexture.com>

PATTERN OF ASSESSMENT

Only Practical

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (5)	$1 \times 5 = 5$	1 K1 questions	1 K1 question
B	K2, K3, K4 (30)	$3 \times 10 = 30$	3 questions	3 questions (1 question each from K1, K2, K3)
C	K5, K6 (15)	$1 \times 15 = 15$	1 question with subsections for K5 and K6	2 questions with subsections for K5 and K6
	Total	50	5	6

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	2 x 5 = 10	2 K1 questions	2 K1 questions
B	K2, K3, K4 (60)	6 x 10 = 60	6 questions	6 (2 questions each from K2, K3, K4)
C	K5, K6 (30)	2 x 15 = 30	2 questions with subsections for K5 and K6	3 questions with subsections for K5 and K6
	Total	100	10	11

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/CF54												
	Course Title: Computer Aided Financial Analysis												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	1	1	1	2	3	3	2	1
CO 2	3	3	3	2	3	1	1	1	2	3	3	2	3
CO 3	3	3	3	2	2	1	1	1	3	3	3	3	3
CO 4	3	3	3	1	2	1	1	1	3	3	3	2	3
CO 5	3	3	3	2	3	1	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023–2024)

SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

CODE: 23AF/MC/SP54

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide students with a theoretical and practical background about investments
- To acquaint students with the fundamental principles and techniques of security analysis
- To provide a conceptual foundation for the purpose of undertaking investment analysis for securities as well as portfolios.
- To expose students to the guidelines for the creation and revision of an investment portfolio
- To equip students with the necessary computing skills for dealing with investments

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the principles and techniques of security analysis	K1
CO2	comprehend the various calculations required for portfolio analysis	K2
CO3	determine risk-return of individual securities and portfolio	K3
CO4	analyse and evaluate various investment avenues and make an investment choice	K4
CO5	build a well-diversified portfolio and formulate an investment strategy	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction			
	1.1 Definition and Meaning of Portfolio Management	K1-K2	2	1-2
	1.2 Steps involved in Portfolio Management, Principles of Portfolio Management	K1-K5	3	1-5
	1.3 Return - Meaning and Components of Return	K1-K5	2	1-5
	1.4 Risk – Meaning and Causes, Types of Risk – Systematic and Unsystematic	K1-K5	3	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Theories of Portfolio Management 2.1 Measurement of Return and Risk – Single Security and Portfolio	K1 – K5	7	1-5
	2.2. Portfolio Theory - Harry Markowitz, Single Index Model, Capital Assets Pricing Model	K1 – K5	8	1-5
3	Valuation of Securities 3.1 Equity Valuation based on Accounting Information, Dividends and Earnings.	K1-K5	8	1-5
	3.2 Bond Valuation - Bond pricing, Yield to Maturity, Yield to Call	K1 - K5	7	1-5
4	Security Analysis 4.1 Fundamental Analysis – Intrinsic value of shares – EIC (Economy-Industry Company) Framework	K1-K5	8	1-5
	4.2 Technical Analysis (only theory) –Basic Tenets of Technical Analysis, Price and Volume Charts, Dow Theory, Pattern Analysis	K1 – K5	7	1-5
5	Techniques of Portfolio Management 5.1 Efficient Market Hypothesis	K1-K5	3	1-5
	5.2 Asset Allocation Framework – Strategic and Tactical	K1-K5	2	1-5
	5.3 Passive and Active Management Strategies	K1-K5	2	1-5
	5.4 Portfolio Evaluation – Treynor Measure, Sharpe Measure, Jensen Measure	K1-K5	3	1-5

BOOKS FOR STUDY

Rustagi, R.P, *Investment Analysis and Portfolio Management*, New Delhi: Sultan Chand & Sons, 2022

Chandra, Prasanna, *Investment Analysis and Portfolio Management*, New Delhi: Tata McGraw-Hill, 2021

BOOKS FOR REFERENCE

Bhalla V.K, *Fundamentals of Investment Management* (Revised Edition), New Delhi: S. Chand & Co, 2013

Grinold, Richard and Kahn, Ronald, N., *Active Portfolio Management – Quantitative Theory and Applications*, New Delhi: S. Chand Publications

Gurusamy, S., *Security Analysis and Portfolio Management*, Chennai: Vijay Nicole Imprints, 2017

Singh, Preethi, *Investment Management Security Analysis and Portfolio Management*, Mumbai: Himalaya Publishing House, 2018

JOURNALS

Journal of Financial Markets and Portfolio Management Streetwise

The Journal of Portfolio Management

Journal of Project, Program and Portfolio Management

WEB RESOURCES

www.investopedia.com

www.askinvestmentmanagers.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (2 theory, 1 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (2 problems, internal choice) 1 K4 questions (2 problems, internal choice)
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (3 Theory and 3 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems, internal choice) 2 K4 questions (Only Problems, internal choice)
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/SP54												
	Course Title: Security Analysis and Portfolio Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	2	2	3	3
CO 2	3	3	2	3	2	2	1	1	3	2	2	2	2
CO 3	3	3	2	3	3	2	1	1	3	2	2	2	2
CO 4	3	3	2	3	3	2	1	1	3	2	2	2	2
CO 5	3	3	2	3	2	1	1	1	3	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

FINANCIAL SERVICES

CODE:23AF/MC/FS54

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide an understanding of the various financial services.
- To enable students to assess the functioning of financial institutions
- To comprehend the financial needs of individuals and businesses.
- To educate students about the practical relevance and importance of the players in the financial market.
- To expose students to financial intermediaries and regulatory institutions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	relate the scope and importance of financial services	K1,K2
CO2	identify the components and emerging trends of Indian Financial sector	K3
CO3	examine the current structure and regulation of the Indian Financial service sector	K4
CO4	analyze the functioning and role of credit rating agencies and regulatory institutions	K5
CO5	evaluate the impact of financial products and services in the Indian Financial System.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Financial Services:			
	1.1 Meaning, Scope and Importance of Financial services -Features - Classification of financial services	K1-K2	2	1
	1.2 Fund Based and Non-fund Based Services	K1-K3	3	1-2
	1.3 New Financial Products and Services - Innovative Financial Instruments	K1-K5	3	1-4

UNIT	CONTENT	CL	Hrs	CO
2	Merchant Banking and Venture Capital			
	2.1 Merchant Banking: Meaning and Definition of Merchant Banking – Origin	K1-K6	3	1-5
	2.2 Merchant Bank vs. Commercial Banks	K1-K6	3	1-5
	2.3 Services of Merchant Banks	K1-K6	3	1-5
	2.4 Venture Capital - Concept, Features, Current Indian Scenario.	K1-K6	3	1-5
3	Mutual Fund, Factoring and Forfaiting			
	3.1 Mutual Fund: Meaning, Definition and Scope – Origin – Types – Importance	K1-K6	2	1-5
	3.2 Organization and Operation of Mutual Fund – Mutual Fund in India –Reasons for slow growth.	K1-K6	5	1-5
	3.3 Factoring – Meaning – Functions – Types of factoring – Causes and Benefits of Factoring. Factoring Charges, International Factoring & Factoring in India.	K1-K6	1	1-5
	3.4 Forfaiting –Meaning – Origin -Benefits and Drawbacks of Forfaiting.	K1-K6	5	1-5
4	Credit Rating and Securitisation of Debt			
	4.1 Credit Rating –Meaning and Definition - Functions –Benefits - Process of Credit Rating of Financial Instruments	K1-K6	2	1-5
	4.2 Credit Rating Agencies: CRISIL-ICRA-CARE – SEBI Guidelines.	K1-K6	3	1-5
	4.3 Securitisation of Debt: Meaning, Features, Special Purpose Vehicle, Types of Securitised Assets, Benefits of Securitization, Issues in Securitization.	K1-K6	5	1-5
5	Other Financial Services			
	5.1 Microfinance - NGOs and SHGs - Microfinance Delivery Mechanisms – Future of Micro Finance.	K1-K6	3	1-5
	5.2 Leasing-Concept, Steps in Leasing Transactions, Types of Lease, Problems in Leasing, Factors influencing Buy, Borrow or Lease Decision.	K1-K6	3	1-5
	5.3 Hire Purchasing - Concepts and features, Hire Purchase Agreement, Comparison of Hire Purchase with Credit sale, Installment Sale and Leasing, Problems related to outright Purchase, Hire purchase and Leasing	K1-K6	3	1-5

BOOKS FOR STUDY

Gurusamy. S, *Financial Services*, Tata McGraw Hill Education Pvt. Ltd, Second Edition, 2009.

Khan M.Y., *Financial Services*, Tata Mc Graw Hill Publishing Pvt. Ltd, Tenth Edition, 2019.

BOOKS FOR REFERENCE

Gurusamy S. *Financial Services and Markets*, Chennai, Vijay Nicole Imprints Pvt. Ltd., 2014

Machiraju H. R, *Indian Financial System*, Vikas Publishing House Pvt. Ltd, 2019.

Bhalla. V.K., *Management of Financial Services*, Anmol Publications Pvt. Ltd., 2006

JOURNALS

Asian Journal of Research in Banking and Finance

Indian Journal of Finance

Journal of Banking, Information Technology and Management

Journal of Bank Management

WEB RESOURCES

<https://www.india-financing.com/indo1.html>

<http://www.languages.ind.in/factoring.html>

<http://www.rbi.org.in/scripts/PublicationReportDetails.asp>.

<http://www.allbankingsolutions.com/top-topics/dep1.shtml>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D – Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x2 =10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4x5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x10 =40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D – Not exceeding 1000 words	K5, K6 (30)	2 x15 =30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/FS54												
	Course Title: Financial Services												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	1	1	1	2	2	2	3	1
CO 2	3	3	1	2	2	1	1	1	2	3	1	1	1
CO 3	3	3	1	2	2	1	1	1	2	3	2	1	1
CO 4	3	3	1	2	1	1	1	1	2	3	1	1	1
CO 5	1	1	1	1	1	1	1	1	2	3	1	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by the Department of Commerce
(Accounting and Finance and Commerce General) to B. Com (General) and
Accounting and Finance Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL FINANCE AND IMPACT INVESTING

CODE:23ID/IC/SI55

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To provide students with a conceptual foundation for social finance
- To enable students to understand the theoretical concepts of impact investing
- To acquaint students with the policies and actions that affect social performance and investor reactions
- To provide an understanding to the students about investment strategies that align with specific social and environmental goals.
- To impart knowledge to the students on the ethical and social responsibility of impact investing practices

COURSE LEARNING OUTCOMES

On successful completion of the course students will be able to

COs	DESCRIPTION	CL
CO1	recall the concepts, theories and drivers related to social enterprise and impact investing.	K1
CO2	understand the importance of social entrepreneurship and impact investing models and strategies and in addressing social and environmental challenges to the sectors.	K2
CO3	apply knowledge of social enterprise to real-world scenarios and evaluate and select appropriate impact investments that align with specific societal, environmental or financial objectives using financial tools and risk management.	K3
CO4	analyze the role of governments, investors, and other actors in supporting social entrepreneurship and impact investing.	K4
CO5	design and develop innovative impact investment products or services and social enterprises that entail new business models or technologies to address unmet social or environmental needs.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K6	2	1-5
	1.1 Social Entrepreneur - Meaning, Scope, Importance.			
	1.2 Types and characteristics of social entrepreneurs - Difference between business entrepreneur and social entrepreneur.	K1-K2	3	1
	1.3 Social Enterprise - Meaning and Types.	K1-K6	3	1-5
	1.4 6 P's of Social Entrepreneurial Enterprise	K4-K6	2	4-5
2	Social Finance Investment			
	2.1 Social Finance Investment – Meaning and Characteristics	K1-K3	4	1-2
	2.2 OECD, SASB, UNDP, UNEP	K3-K4	4	2-3
	2.3 Elements of social finance - Demand, Supply and Intermediary.	K1-K6	4	1-5
	2.4 Types of Social Finance Investment	K1-K6	5	1-5
3	Impact Investing		5	1-4
	3.1 Meaning, Difference between Traditional Investing and Impact Investing.	K1-K5		
	3.2 Overview of the spectrum of Investment Opportunities from Traditional to Philanthropy	K1-K6	6	1-5
	3.3 Emergence and Driving Forces of Impact Investing.	K1-K6	6	1-5
4	Impact Investing to the Sectors			
	4.1 Microfinance and Development Related Investment	K1-K3	5	1-2
	4.2 Pros and Cons of Impact Investing	K1-K6	6	1-5
	4.3 Large Scale Impact Investing Programmes (Case Study)	K1-K6	6	1-5
5	Tools for Impact Investment		6	1-5
	5.1 Framework for social and environmental impact investing.	K1-K6		
	5.2 Industry standards and principles for impact investing.	K3-K6	5	2-5
	5.3 Measurement and verification tools for impact investing.	K1-K6	6	1-5

BOOKS FOR STUDY

Bugg-Levine, Antony and Emerson, Jed, *Demystifying Impact Investing*, Wiley, 2011
Rodin, Judith, *The Power of Impact Investing*, Wharton Digital Press, 2015
Balkin, Jeremy, *Investing with Impact*, Routledge Publications, 2015

BOOKS FOR REFERENCE

Clark, C., Emerson J. and Thornley, *The Impact Investor: Lessons in Leadership and Strategy for Collaborative Capitalism*, Jossey-Bass Publications, 2015

Kelly, Majorie, *The Divine Right of Capital: Dethroning the Corporate Aristocracy*, Berrett Koehler Publishers, 2015

Shiller, R., *Finance and the Good Society*, Princeton University Press, 2012

Tan, Kim and Griffiths, Brian, *Social Impact Investing*, Anchor, 2016

JOURNALS

Journal of Sustainable Finance and Investment

Journal of Social Innovations

WEB RESOURCES

www.alliancemagazine.org

www.cgap.org

www.responsiblesearch.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks:50

Duration:90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2X2=4	2 K1 Questions	2 K1 Questions
B	K2(6)	3X2=6	3 K2 Questions	3 K2 Questions
C	K3(10)	1X10=10	1 K3 Questions	2 K3 Questions
D	K4 (10)	1X 10 = 10	1 K4 Questions	2 K4 Questions
E	K5(20)	1 X20=20	1 K5 Questions	2 K5 Questions
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:

Total Marks:100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5X2=10	5K1 Questions	5K1 Questions
B	K2(10)	5X2=10	5 K2 Questions	5K2 Questions
C	K3(20)	2X10=20	2 K3 Questions	3 K3 Questions
D	K4 (20)	2X 10 = 20	2 K4 Questions	3 K4 Questions
E	K5(40)	2 X20=40	2 K5 Questions	4K5 Questions
	Total	100	16	20

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/SI55												
	Course Title: Social Finance and Impact Investing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	1	2	3	3	3	3
CO 2	3	3	2	3	3	3	3	1	2	3	3	3	3
CO 3	3	3	2	3	3	3	3	1	2	3	3	3	3
CO 4	3	3	2	3	3	3	3	1	2	3	3	3	3
CO 5	3	3	2	3	3	3	3	1	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

ENTREPRENEURIAL FINANCE

CODE:19AF/MC/EF64

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide an understanding of the role of entrepreneurship in economic growth
- To impart knowledge on financing entrepreneurial ventures
- To educate students on choice of financial avenues
- To enable the students to be aware of institutional financial support.
- To acquaint the students with government policies and subsidies.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts of entrepreneurship.	K1
CO2	understand the impact of entrepreneurship in the growth of economic development	K2, K3
CO3	identify the sources of finance for new ventures.	K4
CO4	categorise the various government initiatives in promoting entrepreneurship	K5
CO5	formulate the financial requirements for the launch of a business enterprise.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1.	Introduction 1.1 Entrepreneur - Meaning, Definition, Characteristics, Types and Functions of an Entrepreneur	K1-K6	3	1-5

UNIT	CONTENT	CL	HRS	CO
	1.2 Role of Entrepreneurship in the growth of Economic Development	K1-K6	3	1-5
	1.3 Entrepreneurship Development - Barriers (Internal and External)	K1-K6	2	1-5
	1.4 Factors Influencing Entrepreneurship development.	K1-K6	2	1-5
2.	Enterprise Launching 2.1 Opportunity Identification and Selection, Idea Generation-Sources	K1-K6	4	1-5
	2.2 Project Formulation- Importance and Elements	K1-K6	3	1-5
	2.3 Project Feasibility Analysis- Factors and Report.	K1-K6	4	1-5
	2.4 Business Plan – Contents and Significance of Business Plan	K1-K6	4	1-5
3.	Entrepreneurial Finance 3.1 Financial Planning – Meaning, Need and Process	K1-K6	3	1-5
	3.2 Sources of finance – Internal and External	K1-K6	3	1-5
	3.3 Project Cost Analysis	K1-K6	4	1-5
	3.4 Venture Capital Financing, Angel Investors, Lease Financing, Crowd-Funding	K1-K6	5	1-5
4.	Institutions Assisting Entrepreneurial Finance 4.1 Banking Institutions- Commercial, Co-operative, Rural	K1-K6	3	1-5
	4.2 Non-Banking Institutions assisting Entrepreneurs.	K1-K6	3	1-5
	4.3 Development Financial Institutions – SIDBI, Mudra	K1-K6	2	1-5
	4.4 Startup Finance	K1-K6	2	1-5
5.	Government Initiatives in Promoting Entrepreneurship 5.1 Financial Assistance to Entrepreneur – Subsidies and Incentives	K1-K6	4	1-5
	5.2 MSME policy in India,	K1-K6	3	1-5
	5.3 State Development Promotion Agencies: District Industries Centers (DIC), SIPCOT	K1-K6	5	1-5
	5.4 Small Industries Service Institute of India (SISI)	K1-K6	3	1-5

BOOKS FOR STUDY

Khanka S S, *Entrepreneurial Development*, New Delhi: S. Chand & Co, 2015

Leach Chris, W Ronald, *Entrepreneurial Finance*, Cengage Learning, 5th Edition., 2014

BOOKS FOR REFERENCE

YindenabaJousha, *Entrepreneurial Finance for MSMEs: A Managerial Approach for Developing Markets*, Palgrave Macmillian, 2017

Rogers and Makonnen, *Entrepreneur Finance: Finance and Business Strategy for a Serious Entrepreneur*. Mc Graw Hill Education, 2014.

Gibbons Gary, *Entrepreneur Finance: A Global Perspective*, Sage Publications, 2014

AlemanYusia, *Entrepreneurial Finance: the Art and Science of Growing Ventures*, Cambridge University Press, 2018

JOURNALS

The Journal of Entrepreneurial Finance

Venture Capital Journal

WEB RESOURCES

www.ocw.mit.edu.com

www.nptel.ac.in

www.xlri.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/EF64												
	Course Title: Entrepreneurial Finance												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	2	1	3	2	2	2	2
CO 2	3	3	3	3	3	3	2	1	3	1	3	2	2
CO 3	3	3	3	3	3	3	2	1	3	2	3	2	2
CO 4	3	3	3	3	3	3	2	1	3	2	3	2	2
CO 5	3	3	3	3	3	3	2	1	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS TAXATION

CODE: 23AF/MC/BT64

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To expose students to the provisions relating to corporate tax computations
- To equip students with the skills to compute the taxable income and tax liability of a company
- To help students develop a conceptual understanding of GST law
- To educate students on GST computation and documents related to GST
- To introduce students to the provisions of Customs Duty

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list the basic concepts and principles of indirect taxation	K1
CO2	interpret tax laws and regulations, ensuring compliance with reporting requirements.	K2
CO3	apply various provisions required for Customs Duty computation	K3
CO4	analyse the impact of GST on business operations and financial statements.	K4
CO5	estimate GST on goods and services for business entities	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Computation of Corporate Tax 1.1 Computation of Taxable Income	K1-K5	7	1-5
	1.2 Carry Forward and Set Off of Losses in the case of Certain Companies Under Sec. 79 of Income-Tax Act, 1961	K1-K3	2	1-5

UNIT	CONTENT	CL	HRS	CO
	1.3 Computation of Corporate Tax Liability - Minimum Alternate Tax, Tax on Distributed Profits of Domestic Companies	K1-K5	6	1-5
2	Customs Duty			
	2.1 Definition and Basic Concepts in Customs Duty	K1 – K5	5	1-5
	2.2 Levy, Collection and Exemptions of Customs Duty	K1 - K5	5	1-5
	2.3 Demand of Duties and Refund, Duty Drawback	K1 - K5	5	1-5
3	Goods and Services Tax - Introduction			
	4.1 CGST, IGST, & SGST/UGST	K1-K5	3	1-5
	4.2 Concept of Destination Based Consumption Tax, IGST Model, Input Tax Credit	K1 - K5	4	1-5
	4.3 Levy of GST	K1 - K5	3	1-5
4	Goods and Services Tax - GSTN and Supply			
	4.1 Supply – Meaning and Scope, Place of Supply, Time of Supply, Valuation	K1-K5	7	1-5
	4.2 Registration of Dealers, E-Way Bills	K1-K5	3	1-5
	4.3 GSTN – Overview of Technology Framework Enabling GST	K1-K5	5	1-5
5	Goods and Services Tax- Computation			
	5.1 Tax Invoice, Credit and Debit Notes and other documents under GST, Accounts, Other Records under GST	K1-K5	4	1-5
	5.2 Payment of Tax, Computation of Tax liability, Interest on delayed payment of tax	K1-K5	6	1-5

BOOKS FOR STUDY

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi: Kalyani Publishers
Mehrotra, H.C. and Agarwal, V.P., *Goods and Services Tax (G.S.T.)*, Eleventh Revised and Updated Edition, Sahitya Bhawan Publications

BOOKS FOR REFERENCE

Ahuja, Girish and Gupta Ravi, *Corporate Tax Planning and Management*, Bharat Law
Lakhotia, R.N., *Corporate Tax Planning*, New Delhi: Vision Books Ltd.
Sahi, Shilpi – *Concepts Building Approaches to Goods and Services Tax (GST), & Customs Law* - CENGAGE, New Delhi
Chaudhary, Vashistha, Dalmia, Ashu and Girdharwal, Shaifaly, *GST- A Practical Approach*, New Delhi: Taxmann Publications
Sareen, V.K., Sharma, Ajay, *GST Goods and Service Tax*, Kalyani Publishers
NOTE: Latest edition of the readings may be used

JOURNALS

Journal of Corporate Taxation

Goods & Services Tax Cases and Corporate Professionals Today

Income Tax Tribunal Decisions

WEB RESOURCES

www.icaai.org

www.icsi.edu

www.taxjournal.com

www.taxlawsonline.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory, 2 problems)
C	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question (1 theory, internal choice) 1 K4 questions (1 problem, internal choice)
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (1 theory, 1 problem)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (3 Theory and 2 Problems)
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (3 Theory and 3 Problems)
C	K3, K4(40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (1 Theory, 1 Problem, internal choice) 2 K4 questions (1 Theory, 1 Problem, internal choice)
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (2 Theory, one Problem)
	Total	100	15	18

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/BT64												
	Course Title: Business Taxation												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	3	1	1	1	3	2	3	2	3
CO 2	3	2	1	3	3	1	1	1	3	2	3	2	3
CO 3	3	2	1	3	3	1	1	1	3	2	3	2	3
CO 4	3	2	1	3	3	1	1	1	3	2	3	2	3
CO 5	3	2	1	3	3	1	1	1	3	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

AUDITING AND ASSURANCE

CODE:23AF/MC/AA64

CREDITS : 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To educate the students about auditing practices
- To provide the students with an understanding of the audit process embedded with Assurance Standards.
- To familiarize the students with the roles and responsibilities of an Auditor
- To provide practical knowledge of generally accepted auditing procedures and techniques
- To provide an understanding of internal control methods.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the fundamental principles and concepts of auditing and assurance	K1,K2
CO2	interpret auditing standards and guidelines to assess their impact on audit procedures.	K3
CO3	analyse audit findings and evidence to draw conclusions about the fairness of financial statements.	K4
CO4	evaluate the appropriateness of audit procedures and evidence obtained during the audit process	K5
CO5	critique audit quality and performance, making recommendations for improvement	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Audit Environment			
	1.1 Introduction			
	1.1.1 Auditing – Meaning and Definition	K1-K2	1	1
	1.1.2 Classification of audits	K1-K6	2	1-5
	1.1.3 Basic Principles Governing an Audit SA 200	K3-K4	2	2-3
	1.1.4 Objective of Audit SA 200	K3	1	2
	1.2 Position of an Auditor			
	1.2.1. Qualification, Appointment and Removal of Auditor	K1-K2	2	1
2	1.2.2. Rights, Duties and Independence of an Auditor SA 200	K1-K6	2	1-5
	1.2.3. Auditors Liabilities as per Companies Act	K3-K5	2	2-4
	Audit requirements			
	2.1 Auditing Engagement SA 210	K1-K3	2	1-2
	2.2 Audit Planning and Audit Programme SA 300	K3-K4	2	2-3
	2.3 Documentation SA 230			
	2.3.1 Audit Materiality SA 320	K1-K2	2	1
	2.3.2 Audit Working Papers	K1-K2	1	1
3	2.3.3 Audit Files	K1-K2	1	1
	2.4 Audit Evidence (SA 500, 501)			
	2.4.1 Audit Procedure for Obtaining Evidence	K1-K5	2	1-4
	2.4.2 Sources of Evidence	K1-K6	2	1-5
	2.4.3 Methods of Obtaining Evidence	K1-K6	2	1-5
	Internal Controls			
	3.1 Internal Control and Internal Check			
	3.1.1 Objectives and Methods of Internal Control ((SA 315 & SA 330)	K1-K3	3	1-2
4	3.1.2 Internal Check – Objectives and Methods	K3-K4	3	2-3
	3.2 Audit Sampling (SA 530)			
	3.2.1 Types of Sampling	K1-K3	4	1-2
	3.2.2 Test Checking	K1-K2	1	1
	3.2.3 Techniques of Test Check	K3-K6	3	2-5
	Audit of Ledgers			
4	4.1 Audit of Payments – General Consideration – Wages, Capital Expenditure and other Payments.	K1-K6	3	1-5
	4.2 Audit of Receipts – Cash Sales, Receipts from Debtors and other Receipts	K1-K6	2	1-5
	4.3 Audit of Purchases – Vouching Cash and Credit Purchases	K1-K6	3	1-5

UNIT	CONTENT	CL	HRS	CO
	4.4 Audit of Sales – Vouching of Cash and Credit Sales	K1-K6	2	1-5
	4.5 Audit of Suppliers Ledger and Debtors Ledger	K1-K6	2	1-5
	4.6 Audit of Impersonal Ledger	K1-K6	1	1-5
	4.7 Audit of Assets and Liabilities	K1-K6	2	1-5
5	Audit Reporting			
	5.1 Audit Report – Types of Opinion SA 700 and Reporting Requirements under CARO 2013	K3-K5	3	2-4
	5.2 Audit in a Computerized Environment	K3-K5	2	2
	5.3 Audit of different types of Undertaking – Educational Institution, Trusts, NBFC, Hotels and Hospitals	K3-K6	3	2-5
	5.4 Government Audit – Comptroller & Audit General (C&AG)	K1-K3	2	1-2

BOOKS FOR STUDY

Tandon, B. N. *Handbook of Practical Auditing*. New Delhi: S. Chand, 2007.

Pagare, Dinakar. *Principles & Practices of Auditing*. New Delhi: Sultan Chand, 2016.

BOOKS FOR REFERENCE

De Paula, F.R.M. *Principles of Auditing: A Practical Manual for Student and Practitioners*. London: E.L.B.S.

Gupta, Kamal. *Contemporary Auditing*. New Delhi: Tata McGraw Hill

Kumar, Pradeep, Sachdeva, Baldev and Singh Jagwant. *Auditing Theory and Practice*. New Delhi: Kalyani

Saxena, R. G. *Banking Audit: A Practical Guide for Auditing*. Mumbai: Himalaya, 2018

JOURNALS

International Journal of Auditing

Auditing: A journal of Practice and Theory

Journal of Accounting, Auditing and Finance

Accounting, Auditing and Accountability Journal

WEB RESOURCES

www.icai.org

www.clearfax.in

<https://cag.gov.in/en>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/AA64												
	Course Title: Auditing and Assurance												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	1	1	3	3	2	1	1
CO 2	3	3	3	2	1	2	1	1	3	3	2	1	1
CO 3	3	3	3	2	1	2	1	1	3	3	2	1	11
CO 4	3	3	3	2	1	2	1	1	3	3	2	1	1
CO 5	3	3	3	2	1	2	1	1	3	3	2	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023–2024)

TOOLS FOR FINANCIAL ANALYTICS

CODE: 23AF/MC/TF64

CREDITS:4

LTP: 0 1 4

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide students with a strategic understanding of the field of Financial Analytics.
- To enable students to identify inter-relationships in business and make holistic judgments.
- To nurture critical thinking skills required to solve business problems.
- To familiarize students with analytic tool aids in the monitoring and optimization of cash
- To help students detect fraudulent financial activities by identifying anomalies in financial data

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts and terminologies related to financial analytics such as data, metrics, and key performance indicators	K1, K2
CO2	apply Data Visualisation, Tableau, R programme and Power BI to create and communicate meaningful insights from data.	K3
CO3	analyze and interpret data to identify trends, patterns, and relationships.	K4
CO4	evaluate the effectiveness of different financial analytics approaches in solving real-world business problems.	K5
CO5	assess the reliability and accuracy of financial data used in analytics.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Basic Concepts - Dashboards, Reports, Data Visualization, Business Intelligence, Decision Support Systems. Data Visualization, Storytelling and its importance in BI, Visual Perception, Pre-attentive Attributes of Perception, Colour Attributes, High Precision Judging	K1-K2	4	1
	1.2 Overview of the Tools and Programmes for Analytics – Python, R, Power Bi and Data Visualisation through TABLEAU	K2-K6	4	3-5
2	Tools and Programmes for Analytics - Power BI 2.1 Introduction to power BI	K1-K2	4	1
	2.2 Data Transformation & M Query Design	K1-K6	4	1-5
	2.3 Direct Query Data Models	K1-K5	4	1-4
	2.4 Creating and Formatting Reports	K1-K6	3	1-5
	2.5 Custom Visuals and Dashboards	K1-K6	3	1-5
3	Tools and Programmes for Analytics -R 3.1 Introduction to Computing with R	K1-K6	2	1-5
	3.2 Environment Setup: Installing R, First R Program	K3-K5	4	2-4
	3.3 Data Types, Variables, Operators, Decision Making, Loop Control Statements.	K1-K6	4	1-5
	3.4 Packages in R	K2-K3	4	1-2
4	Tools and Programmes for Analytics - Python 4.1 Basics of Python	K3-K5	5	2-4
	4.2 Installation of Python, Data Types, Variables, Operators and Operator Precedence, Decision Making, Loop Control Statements.	K3-K5	4	2-4
	4.3 Introduction to Python Packages – Numpy, Pandas, Matplotlib	K3-K5	4	2-4
5	Tools and Programmes for Analytics - Data Visualisation (Tableau) 5.1 Introduction to Data Visualisation	K1-K6	4	1-5
	5.2 Data summarization methods; Tables, Graphs, Charts, Histograms, Frequency distributions, Relative Frequency Measures of Central Tendency and Dispersion;	K1-K6	4	1-5
	5.3 Box Plot; Basic probability concepts, conditional probability, Probability distributions, Continuous and discrete distributions, sequential decision making	K1-K4	4	1-3

BOOKS FOR STUDY

Grigsby, Mike, *Advanced Customer Analytics: Targeting, Valuing, Segmenting and Loyalty Techniques*, Kogan Page Publications, 2016

Evans, James R., *Business Analytics*, Pearson Publications, 2019

BOOKS FOR REFERENCE

Albright, Christian and Winston, Wayne L., *Business Analytics: Data Analysis and Decision Making*, Cengage Learning, 2017

Cox, Emmett, *Retail Analytics: The Secret Weapon*, John Wiley and Sons, 2012

Erik, Van Vulpen and Green, David, *The Basic Principles of People Analytics*, CreateSpace Independent Publishing, 2016

JOURNALS

Financial Analysts Journal

Journal of Financial Analytics

International Journal of Financial Analytics

WEB RESOURCES

www.cfainstitute.org

www.tableau.com

PATTERN OF ASSESSMENT

Only Practical

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (5)	$1 \times 5 = 5$	1 K1 questions	1 K1 question
B	K2, K3, K4 (30)	$3 \times 10 = 30$	3 questions	3 questions (1 question each from K1, K2, K3)
C	K5, K6 (15)	$1 \times 15 = 15$	1 question with subsections for K5 and K6	2 questions with subsections for K5 and K6
	Total	50	5	6

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	2 x5= 10	2 K1 questions	2 K1 questions
B	K2, K3, K4 (60)	6x10=60	6 questions	6 (2 questions each from K2, K3, K4)
C	K5, K6 (30)	2x15=30	2 questions with subsections for K5 and K6	3 questions with subsections for K5 and K6
	Total	100	10	11

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/MC/TF64												
	Course Title: Tools for Financial Analytics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	2	2	3	2	3	2	1
CO 2	3	3	2	3	3	3	2	2	3	2	3	2	1
CO 3	3	3	2	3	3	3	2	2	3	2	3	2	1
CO 4	3	3	2	3	3	3	2	2	3	2	3	2	1
CO 5	3	3	2	3	3	3	2	2	3	2	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar (Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development for Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023–2024)

STOCK MARKET OPERATIONS

CODE:23AF/ME/SM45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To introduce to students the basic concepts in the stock market
- To enable students to understand the role and functions of the various intermediaries and regulatory bodies
- To expose students to various components of the primary and secondary market in India.
- To familiarize the students with the basic terminologies of the stock market and its application
- To provide students with a comprehensive understanding of recent trends in the Indian stock market

COURSE LEARNING OUTCOMES

On the successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	comprehend the basic concepts of stock market	K1,K2
CO2	explain the different segments of stock market operations	K3
CO3	apply the concepts relevant to stock market	K4
CO4	analyze the role and importance of stock market operations	K5
CO5	evaluate the legal framework of stock market	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Capital Market			
	1.1 Capital market – Meaning- Features - Functions- Intermediaries in capital market, Types of Capital market	K1-K6	4	1-5
	1.2 Capital Market Instruments	K1-K6	3	1-5
	1.3 SEBI Guidelines relating to Capital markets	K1-K6	2	1-5
	1.4 Recent developments in the Indian Capital market.	K1-K6	2	1-5

UNIT	CONTENT	CL	HRS	CO
2	Primary market and Secondary market 2.1 Primary market - Definition and Function	K1-K6	3	1-5
	2.2 Methods of new issues -Right issue -Bonus issue	K1-K6	3	1-5
	2.3 Secondary market-Types of brokers and speculators - Bulls , Bears, Stag, Lame duck	K1-K6	4	1-5
	2.4 Stock exchange in India- BSE, NSE, SSE, NSE SME, BSE SME, Sensex and Nifty	K1-K6	4	1-5
3	Stock Exchange Operations 3.1 Functionaries -Brokers, Sub Brokers, Market makers, Jobbers, Portfolio consultants	K1-K6	2	1-5
	3.2 Trading System in Stock Exchange, Trading Strategies, Types of Settlement, IPO process	K1-K6	3	1-5
	3.3 Basic Terminology: stock split, Dividend, Market Trends, Correction, Crash, Types of Trading, Types of Order, Diversification (Building Ideal portfolio)	K1-K6	3	1-5
4	Listing of securities 4.1 Listing of securities, Meaning ,Merits and Demerits	K1-K6	3	1-5
	4.2 Types of listing of Securities, Listing requirements, Procedure	K1-K6	3	1-5
	4.3 Listing conditions of BSE and NSE –Delisting	K1-K6	4	1-5
5	Dematerialization and Depository System 5.1 Dematerialization-Meaning, Process, Benefits, Trading in dematerialized securities	K1-K6	4	1-5
	5.2 Depository system - Meaning of Depository, Objectives, Process involved in Depository system	K1-K6	4	1-5
	5.3 Depository System in India	K1-K6	3	1-5
	5.4 Depository Participants-National Securities Depository Limited, Central Depository Services Limited.	K1-K6	4	1-5

BOOKS FOR STUDY

Khan M.Y., *Indian Financial System*, Tata McGraw Hill Company, 10th Edition 2017.

Pathak. B, *Indian Financial System*, Pearson India Pvt. Ltd, 5th Edition, 2018.

BOOKS FOR REFERENCE

Varshney P.N., & Mittal D.K., *Indian Financial System*, Sultan Chand & Sons, New Delhi, 2015.

Gordon. E and Natrajan K. *Indian Financial System*, Himalaya Publishing House, 1st Edition, 2015.

JOURNALS

Journal of Capital Markets Studies

Indian Journal of Research in Capital Markets

Journal of Capital Market and Securities Law

WEBSITE

<https://www.capitalmarket.com/>

<https://www.investopedia.com/terms/c/capitalmarkets.asp>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5x2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4x5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4x10 =40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	2 x15 =30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/ME/SM45												
	Course Title: Stock Market Operations												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	2	1	2	1	2	2	1
CO 2	3	2	2	3	3	2	1	1	2	3	2	2	1
CO 3	3	2	2	3	3	2	2	1	2	3	2	2	1
CO 4	3	2	2	3	3	2	3	1	2	3	2	2	1
CO 5	3	2	2	3	3	2	3	1	2	2	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS TAX PLANNING AND PROCEDURES

CODE:23AF/ME/TP45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To acquaint students with business tax procedures and tax management
- To provide the students with an insight into the structure of Income tax authorities
- To enable students to understand the procedure for tax filing, recovery and refund
- To provide knowledge about the powers of tax authorities
- To acquaint students with provisions relating to tax deduction at source and tax collected at source

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the different concepts related to taxation	K1
CO2	understand the procedure for filing of tax and recovery of refund	K2
CO3	apply tax provisions for tax planning	K3
CO4	review the provisions relating to penalties and refunds	K4
CO5	evaluate the tax planning guidelines and suggest tax incentive measures	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Tax Planning	K1-K2	2	1-5
	1.1.1 Meaning and Need for Tax Planning			
	1.1.2 Methods of Tax Planning	K1-K5	2	1-5
	1.1.3 Tax Avoidance and Tax Evasion	K1-K5	2	1-5
	1.2. Income Tax Authorities	K1-K5	2	1-5
	1.2.1 Income Tax Authorities			
	1.2.2 Powers of Income Tax Authorities - Relating to Search and Seizure, Application of Seized Or Requisitioned Assets, Power of Survey, Power to Collect Certain Information	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
	1.2.3 Disclosure of Information Regarding Assesses to Certain Authorities	K1-K5	2	1-5
2	2.1 Tax Deducted at Source (TDS) 2.1.1 Deduction of Tax from Salary, Interest on Securities, Deemed Dividend and Casual Income	K1 - K5	3	1-5
	2.1.2 TDS from Insurance Commission, Brokerage, Rent, Fees For Professional or Technical Services	K1 - K5	4	1-5
	2.2 Tax Collected at Source (TCS) 2.2.1 Classification of Seller and Buyer for TCS	K1 - K5	4	1-5
	2.2.2 Goods and Transactions Classified under TCS	K1 - K5	4	1-5
	2.2.3 Payment of TCS to Government, Electronic TCS, Filing of TCS Returns	K1 - K5	3	1-5
3	3.1 Filing of Return 3.1.1 Time Limit for Filing of Return of Income	K1-K5	5	1-5
	3.1.2 Defective or Incomplete Return	K1-K5	3	1-5
	3.2 Recovery of Tax and Refunds 3.2.1 Payment of Tax, Modes of Recovery of Tax, Refund of Tax	K1-K5	8	1-5
4	Penalty and Prosecution 4.1 Penalty – Different Penalties for Offences and Procedure for Imposing Penalty	K1-K5	2	1-5
	4.2 Prosecution for Removal of Assets and Documents During Searches, Removal, Concealment, Transfer or Delivery of Property to Avoid Tax Recovery, Failure to Comply with Provisions regarding Transfer of Immoveable Property, Failure to Pay TDS or TCS	K1-K5	3	1-5
	4.3 Prosecution for False Statement in Verification, Falsification of Books of Account or Document	K1-K5	2	1-5
5	Income Tax Settlement Commission 5.1 Setting up and Constitution of Settlement Commission, Jurisdiction and Powers of Settlement Commission	K1-K5	5	1-5
	5.2 Additional Income Tax, Procedure on Receipt of Application	K1-K5	5	1-5

BOOKS FOR STUDY

Gaur V.P., Narang D.B., *Income Tax Law and Practice*, New Delhi: Kalyani Publishers
Singhania, Vinod K. and Singhania, Monica, *Students' Guide to Income Tax*, New Delhi: Taxmann Publication

BOOKS FOR REFERENCE

Dinkar Pagare, *Law and Practice of Income Tax*, New Delhi: Sultan Chand Publications
Ahuja, et. Al, *Systematic Approach to Income Tax*, New Delhi: Bharat Law House
Lal B.B., Vashisht, N., *Income Tax Law and Practice*, New Delhi: IK Int Publishing House
Mehrotra, H.C., *Income Tax Law and Accounts*, Agra: Sahithya Bhawan Publications
Singhania, et. al, *Students' Guide to Income Tax*, New Delhi: Taxmann Publication

NOTE: Latest edition of the readings may be used

JOURNALS

Journal of Taxation

Journal of Accounting and Taxation

Vision: Journal of Indian Taxation

WEB RESOURCES

www.incometaxindia.gov.in

www.taxlawsonline.com

www.taxmann.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making
Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/ME/TP45												
	Course Title: Business Tax Planning and Procedures												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	3	2	1	1	2	3	2	3	2	1
CO 2	3	3	1	3	2	1	1	2	3	2	3	2	1
CO 3	3	3	1	3	2	1	1	2	3	2	3	2	1
CO 4	3	3	1	3	2	1	1	2	3	2	3	2	1
CO 5	3	3	1	3	2	1	1	2	3	2	3x	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

E-COMMERCE

CODE:23AF/ME/EC45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide the students with an overview of the fundamental concepts of e-commerce and internet technology.
- To acquaint the students with the information on various online platforms to conduct business.
- To create awareness of the importance and working of Electronic Payment Systems and E-Security.
- To enable students to understand the concept of Digital Marketing
- To make the students aware of the cyber security measures prevalent in India.

COURSE LEARNING OUTCOME

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	understand the concepts and technologies of E-Commerce.	K1, K2
CO2	suggest cyber security measures for data protection	K3
CO3	compare digital marketing strategies.	K4
CO4	explain the various electronic payment systems.	K5
CO5	construct business models for E-Commerce.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1.	Internet and E-commerce 1.1 Meaning and Definition – Internet, Intranet and Extranet	K1-K6	3	1-5
	1.2 Emergence of the Internet	K1-K6	2	1-5

UNIT	CONTENT	CL	HRS	CO
	1.3 Meaning, Definition of E-commerce and Difference between Traditional Commerce and E-commerce, E-Commerce and E-Business	K1-K6	3	1-5
	1.4 Advantages and Disadvantages of E- Commerce	K1-K6	2	1-5
2.	Business Models for E-Commerce			1-5
	2.1 Introduction to Business Models	K1-K6	5	
	2.2 Models Based on the Relationships of Transaction parties – B2B, B2C, C2C, C2B, E-Governance	K1-K6	5	1-5
	2.3 Models Based on the Relationship of Transaction Types – Brokerage, Aggregator, Info-Mediary, Value chain, Manufacturer, Advertising and Subscription Models	K1-K6	5	1-5
3.	Digital Marketing			
	3.1 Meaning, Characteristics of Digital Marketing	K1-K6	5	1-5
	3.2 Digital Marketing Strategies	K1-K6	5	1-5
	3.3 E-Advertising and E-Branding	K1-K6	5	1-5
4.	Electronic Payment System			
	4.1 Types of Online Payments – Token Based, Credit Card Based, Debit Card Based and Smart Card Based.	K1-K6	4	1-5
	4.2 Designing Electronic Payment System – Encryption – Digital Signature- Common Standards for Secure E- Payments.	K1-K6	4	1-5
	4.3 Digital Currencies	K1-K6	3	1-5
	4.4 Risk on Electronic Payment System	K1-K6	2	1-5
5.	Cyber Security			
	5.1 Information System Security	K1-K6	4	1-5
	5.2 Data Protection and Security Measures	K1-K6	4	1-5
	5.3 Information Security Environment in India – Information Technology Act 2000	K1-K6	4	1-5

BOOKS FOR STUDY

Joseph PT. *E-commerce: An Indian Perspective*: 5th edition. 2015

Traver, Laudon: *E-Commerce – Business, Technology, And Society*: thirteenth edition 2017

BOOKS FOR REFERENCE

Agarwala, Kamlesh N., Amit Lal and Deeksha Agarwala, *Business on the Net: An Introduction to the Whats and Hows of E-Commerce*, Macmillan India Ltd.
Bajaj, Deobyani Nag, *E-Commerce*, Tata McGraw Hill Company, New Delhi.
Turban, E., et. al., *Electronic commerce: A Managerial Perspective*, Pearson Education Asia.
Diwan, Prag and Sunil Sharma, *Electronic Commerce -A Manager's Guide to E-Business*, Vanity Books International, Delhi.
Dietel, Harvey M., Dietel, Paul J., and Kate Steinbuhler., *E-business and E-commerce for Managers*, Pearson Education.

JOURNALS

Electronic Market
International Journal of E-Commerce
Journal to Management Information system

WEB RESOURCES

www.ecommerce-digest.com
www.htmlgoodies.com
www.openlearningworld.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion ,Video Making

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	2 x 15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/ME/EC45												
	Course Title: E-Commerce												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	2	1	3	3	1
CO 2	3	2	2	3	3	3	2	1	2	3	2	2	1
CO 3	3	3	3	3	3	3	2	1	2	2	2	2	1
CO 4	2	1	2	3	3	3	1	1	2	1	2	1	1
CO 5	2	3	3	3	3	3	2	2	3	2	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

ORGANISATION AND PEOPLE MANAGEMENT

CODE:23AF/ME/OP45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS 65

OBJECTIVES OF THE COURSE

- To provide an overview of concepts relating to organisational behaviour.
- To impart knowledge to the students on organisational culture and change.
- To educate students on the principles and practices of human resources.
- To familiarise the students with the managerial, operative and maintenance aspects of the human resources in an organisation.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	understand the power of group dynamics	K1, K2
CO2	identify the importance and challenges of organisational behavior	K3
CO3	analyse the meaning of organisational culture and organisational change.	K4
CO4	interpret the structure of rewards and compensation	K5
CO5	elaborate the contemporary issues in organizational behaviour	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNITS	CONTENT	CL	HRS	CO
1	Organisational Behaviour			
	1.1 Introduction and Importance	K1	3	1
	1.2 The Emerging Challenges of Organisational Behaviour	K1-K2	3	1
	1.3 Organisational Behaviour-Structure and Model	K1-K2	4	1

UNITS	CONTENT	CL	HRS	CO
2	Individual Behaviour and Group Dynamics			
	2.1 Meaning, Types and Factors Influencing Personality	K1-K3	3	1-4
	2.2 Values and Attitude, Learning, Perceptions and Emotions- Concept and Factors	K3-K4	4	1-4
	2.3 Organisational Culture and Climate- Concept and Determinants	K3-K5	3	1-4
	2.4 Organisational Change- Process and Managing Change	K4-K5	3	1-4
	2.5 Stress Management	K3	2	1-4
3	Group Dynamics			
	3.1 Group Formation	K1-K2	3	1-5
	3.2 Group Characteristics	K2-K3	3	1-5
	3.3 Power	K3	3	1-5
	3.4 Organisation Politics	K4	3	1-5
	3.5 Impression Management	K5-K6	3	1-5
4	Compensation Management			
	4.1 Performance Appraisal- Meaning and Methods	K1-K4	5	1-5
	4.2 Wages and Salaries Administration	K4-K5	3	1-5
	4.3 Financial and Non- Financial Incentives	K5	3	1-5
	4.4 Statutory Compliances – ESI, PF, Gratuity.	K5-K6	4	1-5
5	Contemporary Issues in Human Resource Management			
	5.1 Collective Bargaining	K1-K4	2	1-5
	5.2 Grievance Redressal	K2-K4	2	1-5
	5.3 Career Planning and Succession Planning	K4-K6	3	1-5
	5.4 Managing Diversity at Workplace	K4-K6	3	1-5

BOOKS FOR STUDY

Robbins, S.P., Vohra, *Organisational Behaviour*, Pearson Publication, New Delhi, 2016
Aswathappa, K., *Human Resource Management*, New Delhi, Tata Mc Graw Hill Publishing Company, 8th edition

BOOKS FOR REFERENCE

Gupta C.B., *Human Resource management*, New Delhi, Sultan Chand and Sons, 2007.
Prasad L.M., *Human Resource management*, New Delhi, Sultan Chand and Sons, 2007.
Mamoria C.B., *Personnel Management*, Mumbai, Himalaya Publishing House, 2004. Fred Luthans: *Organisational Behaviour* – McGraw hill
K.Ashwathappa: *Organisational Behaviour* – Himalaya Publications

JOURNALS

International Journal of Human Resource Management
The Human Resource Management Review
International Journal of Organisational Behaviour

WEB RESOURCES

www.hrware.com
www.hrcouncil.ca.in
www.xlri.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:		Total Marks: 50	Duration: 90 minutes	
Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D - Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5x2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4x5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4x10 =40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D - Not exceeding 1000 words	K5, K6 (30)	2x15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/ME/OP45												
	Course Title: Organisation and People Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	2	2	3	2	2	3	1
CO 2	3	3	3	3	3	2	2	2	3	3	2	3	1
CO 3	3	3	3	3	3	2	2	2	3	3	2	3	1
CO 4	3	3	2	3	3	2	2	2	3	3	3	3	1
CO 5	3	3	2	3	3	2	3	2	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023 -2024)

FORENSIC AUDIT AND FRAUD DETECTION

CODE: 23AF/ME/FA45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide comprehensive knowledge on fraud detection and forensic audit
- To equip students with the necessary knowledge to identify and analyze fraudulent activities
- To familiarize students with the investigative processes and techniques relating to fraud
- To enable students to explore career opportunities in forensic audit
- To expose students to digital and cyber forensics

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts in forensic audit and fraud investigation	K1, K2
CO2	identify issues relating to professional ethics and responsibilities in forensic audit	K3
CO3	analyse the various legal situations in forensic audit	K4
CO4	evaluate the impact of fraudulent activities on the well-being of a company	K5
CO5	assess fraud prevention methods and suggest detection measures	K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	Introduction	K1-K6	3	1-5
	1.1 What is Fraud - Meaning and Definition under the Companies Act, 2013 and Criminal Procedure Code, 1973			
	1.1 Elements of Fraud	K1-K6	1	1-5
	1.2 What is Audit and Forensic Audit, Need and Objectives, Fraud and Forensic Audit	K1-K6	6	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Fraud and Audit			
	2.1 Modern Day Scenario	K1 – K6	7	1-5
	2.2 Fundamentals of Forensic Audit	K1 – K6	2	1-5
	2.3 Fraud related concepts, Kinds of Frauds, Corporate Fraud – Case studies, Directors’ responsibilities	K1 – K6	6	1-5
3	Audit and Investigation	K1-K6	5	1-5
	3.1 Tools for handling Forensic Audit			
	3.2 Investigation Mechanism, Field investigation	K1 - K6	5	1-5
	3.3 Methods of Investigation, Red flags, Green flags	K1 - K6	5	1-5
4	Forensic Audit: Laws and Regulation	K1-K6	2	1-5
	4.1 Information Technology and Business Laws			
	4.2 International Laws and Practices – UK Bribery Act, US Foreign Corrupt Practices Act, International Guidance to Cyber Forensics Laws	K1-K6	4	1-5
	4.3 Indian Laws, Indian Evidence Law, Finding facts, relevant facts, admission of evidence, methods to prove cases	K1-K6	4	1-5
5	Cyber Forensics			
	5.1 Introduction to Cyber Crime	K1-K6	2	1-5
	5.2 Digital Forensics and Cyber Laws	K1-K6	5	1-5
	5.3 Introduction to Data Extraction, Ethical Hacking and Digital Incident Response	K1-K6	5	1-5
	5.4 Digital Forensics and Cyber Crime	K1-K6	3	1-5

BOOKS FOR STUDY

Pedneault, Stephen, Rudewicz, Frank, Silverstone, Howard and Sheetz, Michael, *Forensic Accounting and Fraud Investigation*, CPE Edition, 3rd Edition, 2012

Singleton, Tommie W. and Singleton, Aaron, *Forensic Accounting and Fraud Investigation*, 4th Edition. John Wiley & Sons, 2016

BOOKS FOR REFERENCE

Hopwood, William S., Gendler, Richard S., Crain, Michael A., Young, George R., and Pacini, Carl, *Essentials of Forensic Accounting*, 2nd Edition

Albrecht, Steve W., Albrecht, Conan C. and Albrecht, Chad O., *Forensic accounting and Fraud Examination*, Cengage Learning, 6th edition, 2009

JOURNALS

Journal of Forensic Accounting Research

Journal of Forensic and Investigative Accounting

WEB RESOURCES

www.aicpa.org

www.icaew.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question, internal choice 1 K4 question, internal choice
D – Not exceeding 1000 words	K5, K6 (14)	$1 \times 14 = 14$	1 question with subdivisions for K5, K6	2 questions with subdivisions for K5, K6
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5x2=10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4x5 =20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4x10 =40	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D – Not exceeding 1000 words	K5, K6 (30)	2x15 = 30	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23AF/ME/FA45												
	Course Title: Forensic Audit and Fraud Detection												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	1	2	3	2	3	2	2
CO 2	3	3	2	3	3	2	1	2	3	2	3	2	2
CO 3	3	3	2	3	3	2	1	2	3	2	3	2	2
CO 4	3	3	2	3	3	2	1	2	3	2	3	2	2
CO 5	3	3	2	3	3	2	1	2	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by B.Com (Accounts and Finance) to students of
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SYLLABUS

(Effective from the academic year 2023–2024)

STOCK MARKET INVESTMENT

CODE:23AF/GE/SI22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To enable students to understand the importance of investment
- To provide students with an overview of the functions of stock markets and trading mechanism
- To provide practical insight on current practices in the stock exchange

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the relationship between return and risk and their impact on investment	K1
CO2	comprehend the role of stock exchange and its significance in the financial system	K2
CO3	corroborate the vital role played by stock market intermediaries	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Investment 1.1 Investment Environment	K1-K3	1	1-3
	1.2 Factors affecting Investment	K1-K3	2	1-3
	1.3 Types of Investments	K1-K3	2	1-3
	1.4 Meaning of Return and Risk, Risk-Return Tradeoff	K1-K3	3	1-3

UNIT	CONTENT	CL	HRS	CO
2	Introduction to Stock Market 2.1 History of Stock Market	K1-K3	1	1-3
	2.2 Membership, Organisation, Governing Body	K1-K3	3	1-3
	2.3 Functions of Stock exchange, online trading, role of SEBI	K1-K3	3	1-3
	2.4 Brief discussion of NSE and BSE	K1-K3	3	1-3
3	Trading in Stock Market 3.1 Patterns of Trading and Settlement	K1-K3	2	1-3
	3.2 Speculation - Types of Speculations	K1-K3	2	1-3
	3.3 Activities of Brokers - Broker charges	K1-K3	2	1-3
	3.4 Regulatory Authorities - NSDL and CSDL (in brief)	K1-K3	2	1-3

BOOKS FOR STUDY

Tripathi, Vanita and Panwar, Neeti, *Investing in Stock Markets*, Taxmann Publications, New Delhi, 2019

Gurusamy, S., *Financial Markets and Institutions*, McGraw-Hill Education

BOOKS FOR REFERENCE

Mishkin, Fredrick S. and Eakins, Stanley G., *Financial Markets and Institutions*, Pearson Education India, 2018

Graham, Benjamin, *The Intelligent Investor*, Harper Business Publications, 2013

Murthy, D.K. and Venugopal, *Indian Financial System*, I K International Publishing House

Haupt, Evan J. and Border, John, *Stock Market for Beginners*, Createspace Independent Publishers, 2014

JOURNALS

Journal of Investment and Management

Journal of Investment Strategies Journal of Financial Markets

WEB RESOURCES

www.investopedia.com

www.liberatedstocktrader.com

www.niftytradingacademy.net

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration : 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5x1=5	5 K1 questions	5 K1 questions
B - 50 words	K2	5x2=10	5 K2 questions	7 K2 questions
C – 150 words	K3	2x5=10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components**Total Marks: 25****Assignments/Objective Test/Quiz/Presentation****No End Semester Examination**

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SYLLABUS

(Effective from the academic year 2023-2024)

FINANCIAL BUDGETING FOR ENTERTAINMENT INDUSTRY

CODE:23AF/GE/FB22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To understand the specific financial planning and management practices in the entertainment industry
- To comprehend the financial budgeting and forecasting aspects tailored to the entertainment industry
- To provide practical knowledge in creating, analyzing, and managing budgets for various entertainment projects, including film, television, music, live events, and more.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall basic concepts and terms in finance	K1
CO2	understand financial expenses and manage cash flows	K2
CO3	suggest contingency measures for risk management	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Entertainment Industry 1.1 Overview of the Entertainment Industry – Television, Radio, Film and Live Events	K1-K3	2	1-3
	1.2 Types of Entertainment Projects and their Financial Needs	K1-K3	2	1-3
	1.3 Economic Perspective	K1-K3	2	1-3

UNIT	CONTENT	CL	HRS	CO
	1.4 Laws relating to Entertainment Industry – An Overview 1.4.1 Indian Copyrights Act 1957 – Sec 17 & 19	K1-K3	1	1-3
	1.4.2 Indian Contract Act 1872 – Sec 10, 23 & 73	K1-K3	1	1-3
	1.4.3 Indian Arbitration and Conciliation Act 1996	K1-K3	1	1-3
2	Entertainment Financial Budgeting 2.1 Role of Budgeting in Entertainment Industry	K1-K3	1	1-3
	2.2 Revenue Forecasting	K1-K3	1	1-3
	2.3 Tracking Expenses – Pre-Production, Production, Post-Production, Live Events and Music Production	K1-K3	2	1-3
	2.4 Managing Cash Flow	K1-K3	2	1-3
	2.5 Creating a Reserve Fund	K1-K3	1	1-3
	2.6 Sources of Finance for Entertainment Industry – Bank Lending, Leasing, Crowdfunding, Live Entertainment Financing, Government Grants and Incentives, Private Equity and Venture Capital and Angel Investors and High Net Worth Individuals	K1-K3	4	1-3
3	Risk Management and Contingency Planning 3.1 Identifying Risks in Entertainment Projects	K1-K3	2	1-3
	3.2 Developing Contingency Plans	K1-K3	2	1-3
	3.3 Insurance and Risk Mitigation Strategies	K1-K3	2	1-3

BOOKS FOR STUDY

Vogel, Harold L., *Entertainment Industry Economics: A Guide for Financial Analysis*, Cambridge University Press; 8th edition, 2010
 La Torre, Mario, *The Economics of the Audiovisual Industry*, Palgrave Macmillan

BOOKS FOR REFERENCE

Bernstein, Gregory, *Understanding the Business of Entertainment*, Focal Press, 2015
 Milio, Jeanette, *Entertainment Finance Today: How To Successfully Finance, Produce, And Distribute Film And Television Projects*, Lulu Publishers, 2019

JOURNALS

Journal of Finance
 Entertainment Law Review

WEB RESOURCES

www.ft.com
 www.financestrategists.com

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration : 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5x1=5	5 K1 questions	5 K1 questions
B - 50 words	K2	5x2=10	5 K2 questions	7 K2 questions
C – 150 words	K3	2x5=10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components**Total Marks: 25****Assignments/Objective Test/Quiz/Presentation****No End Semester Examination**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by B.Com (Accounts and Finance) to students of
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SYLLABUS

(Effective from the academic year 2023-2024)

NEW VENTURE FINANCE

CODE:23AF/GE/NF22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To provide the students with an understanding of the concept of entrepreneurship.
- To impart knowledge to the students on financing entrepreneurial ventures.
- To educate students on financial incentives provided by the Government.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the key concepts of entrepreneurship	K1
CO2	understand the process of setting up a new venture.	K2
CO3	explore the different schemes for financing entrepreneurial venture	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	New Venture Creation			
	1.1 Business- Meaning, Forms of Organisation	K1-K3	2	1-3
	1.2 Setting up of New Business- Opportunity Identification and Selection, Idea Generation- Sources	K1-K3	3	1-3
	1.3 Business Plan – Contents and Significance of Business Plan	K1-K3	3	1-3

UNIT	CONTENT	CL	HRS	CO
2	Entrepreneurial Finance 2.1 Entrepreneurial Finance – Need, Sources– Internal and External	K1-K3	3	1-3
	2.2 Project Cost Analysis- Cost, Price, Sales, Breakeven Point, Profit	K1-K3	3	1-3
	2.3 Recent Trends in Enterprise Finance-Venture Capital Financing, Angel Investors, Lease Financing	K1-K3	3	1-3
3	Institutions Assisting Entrepreneurial Finance 3.1 Banking and Non-Banking Institutions assisting Entrepreneurs	K1-K3	3	1-3
	3.2 National and State Institutions	K1-K3	3	1-3
	3.3 Government Assistance in Promoting entrepreneurship- Subsidies and incentives	K1-K3	3	1-3

BOOKS FOR STUDY

Khanka S S, *Entrepreneurial Development*, New Delhi: S. Chand & Co, 2015

Leach Chris, W Ronald, *Entrepreneurial Finance*, Cengage Learning, 5th Edition., 2014

BOOKS FOR REFERENCE

Yindenaba Jousha, *Entrepreneurial Finance for MSMEs: A Managerial Approach for Developing Markets*, Palgrave Macmillian, 2017

Rogers and Makonnen, *Entrepreneur Finance: Finance and Business Strategy for a Serious Entrepreneur*. Mc Graw hill Education.

Gibbons Gary, *Entrepreneur Finance: A Global Perspective*, Sage Publications, 2014
Alemany Lusía, *Entrepreneurial Finance: the Art and Science of Growing Ventures*, Cambridge University Press, 2018

JOURNALS

The Journal of Entrepreneurial Finance
Venture Capital Journal

WEB RESOURCES

www.ocw.mit.edu.com

www.nptel.ac.in www.xlri.com

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration : 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5x1=5	5 K1 questions	5 K1 questions
B - 50 words	K2	5x2=10	5 K2 questions	7 K2 questions
C – 150 words	K3	2x5=10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components**Total Marks: 25****Assignments/Objective Test/Quiz/Presentation****No End Semester Examination**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by B.Com (Accounts and Finance) to students of
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SYLLABUS

(Effective from the academic year 2023-2024)

PERSONAL FINANCIAL PLANNING

CODE:23AF/GE/PF22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To enable students to comprehend the relevance of financial planning
- To help students set up financial goals
- To assist students in identifying suitable investment instruments

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	set up financial goals and identify the risk appetite	K1
CO2	choose the areas of investment	K2
CO3	formulate their financial plan	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Financial Planning			
	1.1 Meaning and Importance	K1-K3	2	1-3
	1.2 Personal financial goals and Life Cycle approach	K1-K3	2	1-3
	1.3 Elements and Structure of Personal Financial Plan	K1-K3	2	1-3
	1.4 Process of Personal Financial Plan	K1-K3	3	1-3

UNIT	CONTENT	CL	HRS	CO
2	Monetary Management 2.1 General Principles of Monetary Management	K1-K3	3	1-3
	2.2 Process of Cash flow planning and Budgeting	K1-K3	3	1-3
	2.3 Tax Implications on Financial Planning	K1-K3	2	1-3
3	Risk Assessment and Investment Options 3.1 Individual Risk Assessment	K1-K3	3	1-3
	3.2 Needs and Benefits of Investing	K1-K3	3	1-3
	3.3 Investment options for individual investors - Shares, Bonds, Mutual Funds, Real Estate, Fixed Deposits, PPF, NPS, Gold and Bullion Investments	K1-K3	3	1-3

BOOKS FOR STUDY

Kapoor, J R, Dlabay and Hughes R, *Personal Finance*, McGraw Hill, 12th Edition. Madura, Jeff. *Personal Finance*. Pearson

BOOKS FOR REFERENCE

Praharaj Prakash, *Your Everyday Guide to Personal Finance & Insurance*, TV 18 Broadcast Limited, 2015

Rachel, Siegela and Carol Yacht. *Personal Finance*. Saylor Foundation, Flat World Knowledge

Tillery Susan Et.al, *Essentials of Personal Financial Planning*, AICPA, 2017

Mahajan Vinay, *Power of Planning: Personal Financial Planning Book*, Wordit Content Design and Editing Service Private Limited, 2017

JOURNALS

Journal of Wealth Management

The Insurance and Investment Journal

Journal of Individual Financial Management

WEB RESOURCES

www.saylor.org

www.bogleheads.org

www.planningalt.com

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration : 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5x1=5	5 K1 questions	5 K1 questions
B - 50 words	K2	5x2=10	5 K2 questions	7 K2 questions
C – 150 words	K3	2x5=10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components**Total Marks: 25****Assignments/Objective Test/Quiz/Presentation****No End Semester Examination**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.COM. DEGREE: ACCOUNTING AND FINANCE

SYLLABUS

(Effective from the academic year 2023-2024)

INVESTMENT PLANNING

CODE: 23AF/UI/IP23

CREDITS:3

OBJECTIVES OF THE COURSE

- To enable the students to acquire conceptual knowledge about investment
- To familiarize students with the process of personal investment planning
- To provide an understanding of investment environment
- To expose students to methods to assess investment performance
- To equip students with the skills required for investment management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall concepts relating to savings and investments	K1
CO2	understand the investment process	K2, K3
CO3	examine different investment avenues	K4
CO4	evaluate the risk and return associated with investment	K5
CO5	combine investments and assess investment performance	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	CO
1	Introduction to Investment	K1-K3	1-3
	1.1 Meaning and Need for Savings and Investment		
	1.2 Investment Decision Process	K1-K6	1-5
	1.3 Types of Investments	K1-K6	1-5
	1.4 Steps involved in Investment	K1-K6	1-5

UNIT	CONTENT	CL	CO
2	Investment Environment		
	2.1 Overview of Indian Financial System – Money Market and Capital Market	K1 – K6	1-5
	2.2 Investment Avenues, Asset Classes and Financial Instruments	K1-K6	1-5
	2.3 Security Pricing Influencing Factors and Valuation	K1-K6	1-5
	2.4 Regulations governing Investment	K1-K6	1-5
3	Risk and Return	K1-K6	1-5
	3.1 Meaning of Risk and Return		
	3.2 Types of Risk and Return	K1-K6	1-5
	3.3 Measure of Risk and Return	K1-K6	1-5
4	Investment Performance and Evaluation	K1-K6	1-5
	4.1 Diversification – Meaning and Techniques		
	4.2 Active and Passive Investment Strategies	K1-K6	1-5
	4.3 Portfolio Appraisal and Revision	K1-K6	1-5
5	Investor Protection	K1-K6	1-5
	5.1 SEBI and Role of Stock Exchange in Investor Protection		
	5.2 Investor Grievances and Redressal	K1-K6	1-5
	5.3 Awareness and Activism	K1-K6	1-5

BOOKS FOR STUDY

Bhalla V.K, *Investment Management*, S. Chand & Co Ltd, New Delhi, 19th edition, 2008

Chandra, Prasanna, *Investment Analysis and Portfolio Management*, Tata McGraw-Hill Publishing Company Limited, New Delhi, 3rd Edition

Rustagi R.P , *Investment Analysis and Portfolio Management*, Sultan Chand & Sons, New Delhi, 2013, 4th edition

BOOKS FOR REFERENCE

Avadhani, VA, *Investments and Securities Markets in India*, Himalaya Publishing House, New Delhi, 2022

Chandra, Prasanna, *Investment Game How to Win*, Tata McGraw Hill Publishing Co Ltd, New Delhi, 2012

Pandian, P., *Security Analysis and Portfolio Management*, Vikas Publishing House, New Delhi, 2009

JOURNALS

The Journal of Investment Strategies

The Journal of Investment Management

The Journal of Investment Consulting

WEB RESOURCES

www.investopedia.com

www.askinvestmentmanagers.com

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions, internal choice 2 K4 questions, internal choice
D – Not exceeding 1000 words	K5, K6 (30)	$2 \times 15 = 30$	1 K5 question 1 K6 question	2 K5 questions 2 K6 questions
	Total	100	15	19



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.B.A. DEGREE
BUSINESS ADMINISTRATION
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

PROGRAMME DESCRIPTION

The Bachelor of Business Administration or BBA is a three year professional undergraduate programme in Business Management. The unique feature of this programme is that it is integrated with Business Analytics, offered in association with the Institute of Analytics. The BBA Programme provides students with the knowledge and skills in business and management. The programme is designed to train students effectively in management education and communication skills which will further hone entrepreneurship skills. The methodology involves training through practical experience in the form of case studies, projects, presentations, industrial visits and interaction with experts from the industry. This programme is a blend of theoretical inputs, practical exercises and internship training.

VISION OF THE DEPARTMENT

The vision of the department is to become the centre of excellence in management teaching and research, and train students to be ethical leaders, innovative entrepreneurs, and strategic decision-makers in the ever evolving business world.

MISSION OF THE DEPARTMENT

The mission of the department is to give students a holistic, transformational, and inclusive education that will enable them to thrive in the dynamic area of management. We are dedicated to developing moral leaders, encouraging critical thinking and problem-solving skills, and creating a global perspective in order to better prepare students to contribute positively to organisations and society.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the Business Administration Programme, the students will be able to

PSO 1	relate the knowledge of principles and framework of management and allied domains to solve complex business issues
PSO 2	acquire a set of competencies required for career in the Global Business Environment
PSO 3	apply critical thinking and problem-solving skills in strategic planning and decision making
PSO 4	use business knowledge in the larger interest of the community
PSO 5	adopt innovative practices to achieve sustainability in business environment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
Bachelor of Business Administration 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4									6	8
Part - II														
English	3	4	3	4									6	8
											Total		12	16
Part - III														
Major Core	4	5	3	4	4	5	4	5	4	5	4	5	23	29
	3	4	3	4	4	5	4	5	4	5	3	4	21	27
					4	5	4	5	3	4	3	4	14	18
					4	5	3	4	3	4	4	5	14	18
Allied Core	5	5	5	5	5	6	5	5					20	21
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		107	129
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3	3	3									6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1						1		1	0	3
Mentoring		1						1		1		1	0	4
											Total		4	9
Total	26	30	26	30	25	30	25	30	23	30	24	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.B.A. DEGREE PROGRAMME

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23BA/MC/AM14	Accounting for Managers	4	4	1	0	3	50	50	100
23BA/MC/MC13	Management Concepts	3	3	1	0	3	50	50	100
23BA/AC/EA15	Economic Applications for Managers	5	5	0	0	3	50	50	100
23BA/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23BA/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
SEMESTER-II									
23BA/MC/CA23	Cost Accounting	3	3	1	0	3	50	50	100
23BA/MC/MM23	Marketing Management	3	3	1	0	3	50	50	100
23BA/AC/MI25	Management Information System	5	5	0	0	3	50	50	100
23BA/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23BA/MC/HR34	Human Resource Management	4	4	1	0	3	50	50	100
23BA/MC/BL34	Business and its Legal Environment	4	4	1	0	3	50	50	100
23BA/MC/FS34	Financial Markets and Services	4	4	1	0	3	50	50	100
23BA/MC/EM34	Entrepreneurial Management	4	4	1	0	3	50	50	100
23BA/AC/BS35	Business Statistics	5	5	0	0	3	50	50	100
CD / ET / SC	Value Education								
	Basic Tamil II / General Elective II								
SEMESTER-IV									
23BA/MC/WB44	Workforce Behaviour	4	4	1	0	3	50	50	100
23BA/MC/IF44	Introduction to Financial Management	4	4	1	0	3	50	50	100
23BA/MC/SM44	Service Marketing	4	4	1	0	3	50	50	100
23BA/MC/RM43	Research Methodology	3	3	1	0	3	50	50	100
23BA/AC/QT45	Quantitative Techniques for Managers	5	4	1	0	3	50	50	100
	Major Elective I								
SEMESTER-V									
23BA/MC/BA54	Business Analytics for Decision Making	4	0	1	4	3	50	50	100
23BA/MC/BT54	Business Taxation	4	4	1	0	3	50	50	100
23BA/MC/BE53	Business Communication and Etiquettes	3	3	1	0	3	50	50	100
23BA/MC/EG53	Ethics and Corporate Governance	3	3	1	0	3	50	50	100
Interdisciplinary Core (BBA and BSW) to students of BSW and BBA									
23ID/IC/SE55	Introduction to Social Enterprises Management	5	5	1	0	3	50	50	100
	General Elective III								
	SAP / SL								

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.B.A. DEGREE PROGRAMME

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-VI									
23BA/MC/PB64	Product and Brand Management	4	4	1	0	3	50	50	100
23BA/MC/TQ63	Total Quality Management	3	3	1	0	3	50	50	100
23BA/MC/GB63	Global Business Management	3	3	1	0	3	50	50	100
23BA/MC/PR64	Project	4	0	0	5	-	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23BA/ME/CM45	Change Management	5	5	0	0	3	50	50	100
23BA/ME/SC45	Supply Chain Management	5	5	0	0	3	50	50	100
23BA/ME/EI45	Emotional Intelligence and Managerial Counselling	5	5	0	0	3	50	50	100
23BA/ME/LT45	Leadership and Team Management	5	5	0	0	3	50	50	100
23BA/ME/CN45	Consumer Behaviour and Neuro Marketing	5	5	0	0	3	50	50	100
General Electives									
23BA/GE/TY22	Team Dynamics	2	2	0	0	-	50	-	100
23BA/GE/CE22	Corporate Etiquettes	2	2	0	0	-	50	-	100
23BA/GE/CC22	Cross Culture Management	2	2	0	0	-	50	-	100
23BA/GE/MM22	Media Management	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23BA/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23BA/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23BA/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23BA/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23BA/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23BA/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23BA/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23BA/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23BA/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Elective									
23BA/UI/PO23	Production and Operations Management	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

ACCOUNTING FOR MANAGERS

CODE: 23BA/MC/AM14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to acquire conceptual knowledge about Accounting Standards
- To analyse and interpret financial statements from the point of view of managers and outsiders
- To expose students to appropriate accounting techniques for decision making
- To identify the relevance of budgeting as a tool for effective planning and control
- To acquaint students with the application of Marginal Costing techniques

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the fundamental concepts of accounting and its significance in business	K1
CO2	explain the importance of accounting in managerial decision-making	K2
CO3	demonstrate the techniques of management accounting in financial decision making	K3
CO4	analyze and interpret the financial statements for assessing the financial performance	K4
CO5	evaluate appropriate accounting techniques for planning and effective control	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Accounting as Information System and Users of Accounting Information	K1-K2	10	1-2
	1.2 Using Accounting Information for Decision Making, Planning and Control			
	1.3 Accounting Standards			
	1.3.1 Object of Accounting Standards - Accounting Standard Board of India - Functions – Overview of Indian Accounting Standard			
	1.3.2 Overview of Indian Accounting Standards (Ind AS) – 1,2,4,6,7 and 10			
2	2.1 Final Accounts of Companies			
	2.1.1 Computation of Managerial Remuneration	K1-K5	8	1-5
	2.1.2 Preparation of Final Accounts of Companies as per Companies Act 2013 (Simple problems)			
	2.2 Cash Flow Statement (As Per Accounting Standard – 3)			
	2.2.1 Meaning of Cash Flow and Fund Flow Statements, Uses of Cash Flow Statement and Differences between Funds Flow Statement and Cash Flow Statement	K1-K2	1	1-2
	2.2.2 Preparation of Cash Flow Statement	K1-K5	6	1-5
3	Financial Statement Analysis			
	3.1 Analysis and Interpretation-Need and Importance	K1-K2	1	1-2
	3.2 Methods of Financial Analysis and Interpretation			
	3.2.1 Comparative Statements	K1-K5	3	1-5
	3.2.2 Common-Size Statements			
	3.2.3 Trend Analysis			
	3.3 Ratio Analysis			
	3.3.1 Significance and Limitations of Ratio Analysis	K1-K2	1	1-2
4	Analysis for Planning and Control - Marginal Costing			
	4.1 Marginal Costing - Meaning and Features	K1-K2	1	1-2
	4.2 Cost Volume Profit analysis – Break-Even Point	K1-K5	14	1-5
	4.3 Applications of Marginal Costing-Profit Planning, Product-Mix, Key Factor, Sales Mix			
5	Budgets and Budgetary Control			
	5.1 Concepts of Budgets and Budgetary Control	K1-K2	2	1-2
	5.2 Objectives and Advantages of Budgetary Control			

UNIT	CONTENT	CL	HRS	CO
	5.3 Classification of Budgets and its Preparation – Functional Budgets - Sales Budget, Purchases Budget, Cost of Production Budget, Cash Budget, Flexible Budget	K1-K5	13	1-5

BOOKS FOR STUDY

Gupta, R.L and M. Radhaswamy. Advanced Accountancy, Sultan Chand & Sons, 2018.

Reddy, T. S. and A .Murthy. Management Accounting. Chennai: Margham, 2013.

BOOKS FOR REFERENCE

Maheshwari, S.N. *Principles of Management Accounting*. New Delhi: Sultan Chand, 2021.

Jain S.P and K.L Narang. *Advanced Accountancy (Part II)*. Kalyani, 2019.

Maheshwari S.N, *Advanced Accountancy (Vol.II)*. Vikas, 2022.

Man Mohan and S.N. Goyal. *Principles of Management Accounting*. Agra: SahityaShawan, 2017.

JOURNALS

The Chartered Accountant: Journal of the Institute of Chartered Accountants of India. Indian Journal of Finance

Journal of Accounting & Finance: Research Development Association, Jaipur

WEB RESOURCES

[www. icaai.org](http://www.icaai.org)

www.journals.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	6	3 x 2 = 6 (no Choice - 1 Theory and 2 Problems)
B	K2	10	2 x 5 = 10 (from a choice of three questions-1 Theory and 2 Problems)
C	K3, K4	20	2 x 10 = 20 (internal choice for one K3 question and one K4 question-only Problems)
D	K5	14	1 x 14 = 14 (out of 2 questions-only Problems)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice- 2 Theory and 3 Problems)
B	K2	20	4 × 5 = 20 (out of 6 questions- 2 Theory and 4 Problems)
C	K3, K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-only Problems)
D	K5	30	2 × 15 = 30 (out of 3 questions-only Problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/AM14												
I	Course Title: Accounting for Managers												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	2	2	2	2	3	3	2	3	3
CO 2	3	2	2	1	3	3	1	1	2	3	3	3	2
CO 3	2	2	2	1	2	3	1	2	3	3	3	3	3
CO 4	3	3	2	1	2	3	2	1	3	3	3	3	3
CO 5	3	3	3	1	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI — 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

MANAGEMENT CONCEPTS

CODE: 23BA/MC/MC13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To expose students to the fundamental principles of management
- To acquaint students with the management processes in the organisation
- To identify and apply the functions of management in real time situation
- To evaluate management theories, models and practices, enabling them to make strategic decisions
- To enable students to review the recent practices in management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define key terms used in the principles and theories of management	K1
CO2	explain the characteristics, principles and elements of management	K2
CO3	relate the managerial functions to create sustainable business environment	K3
CO4	analyze and apply the techniques of management in real time situations	K4
CO5	evaluate the management philosophies to meet the current needs of the business	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K2	3	1-2
	1.1 Meaning, Nature and Scope of Management			
	1.2 Importance of Management	K1	2	1
	1.3 Contemporary Approach to Management -Fayol, Taylor, Elton Mayo, Drucker, Porter, Prahalad, Hammer and Tom Peter	K1-K3	4	1-3
	1.4 New Age Management – Review of Two Management Books and Articles	K5	1	1-5

UNIT	CONTENT	CL	HRS	CO
2	Planning	K1-K2	5	1-2
	2.1 Nature and objectives, Importance and Advantages of Planning			
	2.2 Planning process and Obstacles to effective planning			
	2.3 Methods and Types of plans	K1-K5	3	1-5
	2.4 Managing by Objective (MBO)	K1-K3	2	1-3
3	Organising	K1-K2	5	1-2
	3.1 Nature and purpose of organizing			
	3.2 Organization structure- Line and staff authority			
	3.3 Departmentation	K1-K3	3	1-3
	3.4 Decentralization	K1-K4	1	1-4
	3.5 Delegation of authority	K1-K5	1	1-5
4	Staffing	K1-K5	4	1-5
	4.1 Recruitment and Selection			
	4.2 Training – Need, Types of Employee Training			
	4.3 Motivation – Meaning and Maslow’s Theory of Motivation	K1-K2	2	1-2
	4.4 Leadership – Qualities, Types of Leaders, Span of Control	K1-K5	5	1-5
	4.5 Communication – Types and Barriers of Communication			
5	Controlling	K1-K2	3	1-2
	5.1 Meaning and Definition			
	5.2 Process of controlling	K1-K3	3	1-3
	5.3 Controlling techniques (Case study)	K1-K5	5	1-5

BOOKS FOR STUDY

Gupta.C.B ., *Business Management* ,Sultan Chand and Sons, New Delhi, 2015
Prasad .L.M., *Principles and Practice of Management* ,Sultan Chand & Sons, New Delhi, Tenth Edition 2020.

BOOKS FOR REFERENCE

DinakarPagare, *Business Management*, New Delhi, Sultan Chand, 2018
Gupta, N.S. and Alka Gupta, *Essentials of Management*, New Delhi, Anmol, 2010
Manmohan Prasad, *Management Concepts and Practices*, Mumbai, Himalaya, 2008
Shukla, *Business Organization and Management* S.Chand& company ltd.

JOURNALS

European Journal of Business Management
International Journal of Management Reviews

WEB RESOURCES

www.exed.hbs.edu
www.hbr.org
<https://online.pointpark.edu>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:

Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: Management Concepts												
I	Course Title: 23BA/MC/MC13												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	3	2	3	2	3	1	2
CO 2	3	3	2	1	2	2	2	2	3	2	3	1	2
CO 3	3	2	2	1	1	2	3	2	3	2	3	2	3
CO 4	2	3	2	1	2	2	2	2	3	2	3	1	2
CO 5	3	3	3	2	2	2	3	2	3	2	3	1	3
High Correlation: 3				Moderate Correlation: 2					Low Correlation: 1				

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

ECONOMIC APPLICATIONS FOR MANAGERS

CODE: 23BA/AC/EA15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide the students an understanding of economic theory and practice
- To acquaint students with the economic applications integrated with business functions
- To expose students to various market types in relation to demand and supply of products and services
- To develop critical thinking and analytical abilities in resolving business problems
- To appreciate the different market structures for price and output determination

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the relevance of economics to business	K1
CO2	explain consumer perspective of economic applications	K2
CO3	relate pricing and profit management in different types of competitions	K3
CO4	analyze the tools and techniques in economics for managerial decision making	K4
CO5	evaluate the factors that influence decisions with respect to demand and supply, cost and prices	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Economics and its Link with Business			
	1.1 Meaning and Definition of Economics	K1-K2	5	1-2
	1.2 Issues and Problems in Economics			
	1.3 Scope and Role of Economics in Business	K1-K3	3	1-3
2	Consumer Perspective of Economic Application			
	2.1 Demand – Law of Demand, Exceptions to the law of demand	K1-K5	7	1-5
	2.2 Elasticity of Demand- Types, Measurement and Interpretation for Decision Making			
	2.3 Utility – Law of Diminishing Marginal Utility, Total Utility	K1-K4	10	1-4
	2.4 Indifference Curves and Maximization of Satisfaction			

UNIT	CONTENT	CL	HRS	CO
3	Production Decisions in Business			
	3.1 Supply – Law of Supply, Factors Affecting Supply	K1-K5	13	1-5
	3.2 Elasticity of Supply			
	3.3 Production Function			
	3.3.1 Single Variable Input – Law of Variable Proportions			
	3.3.2 Two Variable Inputs – Isoquants and Least Cost Combination			
4	Cost & Revenue Considerations in Business			
	4.1 Cost and Types of Cost	K1-K4	3	1-4
	4.2 Short Run and Long Run Cost Curves – TC, TVC, TFC, AC, AFC, AVC and MC and their Relationships	K1-K5	12	1-5
	4.3 Revenue Curves – TR, AR, MR			
	4.4 Break Even Analysis and Profit Maximization (Conditions)			
5	Market Structures and Determining Their Price and Output			
	5.1 Perfect Competition – Characteristics and Price – Output Equilibrium, Shut down Point	K1-K4	3	1-4
	5.2 Imperfect Competition – Characteristics and Price – Output Equilibrium of following types	K1-K5	9	1-5
	5.2.1 Monopoly – Price Discrimination			
	5.2.2 Monopolistic – Excess Capacity			
	5.2.3 Oligopoly – Price Rigidity, Product Differentiation and Kinky Demand Curve			

BOOKS FOR STUDY

Mehta PL – *Managerial Economics* – Sultan Chand & Sons, 2016
K.K. Dewett, *Modern Economic Theory: Micro & Macro Analysis* – Orient Book Distributors, New Delhi, 2001
Varshney & Maheshwari – *Managerial Economics*, Sultan Chand & Sons, New Delhi, 2018

BOOKS FOR REFERENCE

Adhikary, M., '*Business Economics*'. Excel Books, New Delhi, 2002.
Chopra, O.P '*Managerial Economics*', Prentice Hall Inc., New Delhi, 2015.
Dwivedi D.N, *Managerial Economics*, Vikas Publications, 2018.
V.L. Mote, *Managerial Economics* – Tata McGraw Hill, New Delhi, 2017

NOTE: Latest edition of Books to be used

JOURNALS

Journals for Business Economics
Business and Economics Journal-OMICS International

WEB RESOURCES

www.ddegjust.ac.in
www.businessdictionary.com
www.invetopedia.com

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/AC/EA15												
I	Course Title: Economic Applications for Managers												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	2	2	3	2	2	3	2
CO 2	2	2	3	1	2	2	2	2	3	2	2	3	2
CO 3	3	2	2	1	3	2	3	2	3	3	2	3	3
CO 4	2	3	2	1	3	2	2	2	3	3	3	2	3
CO 5	2	2	2	1	3	2	3	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A./ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23BA/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A/ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23BA/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A Practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage, 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group Discussions
Group Presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086**B.B.A. DEGREE: BUSINESS ADMINISTRATION****SYLLABUS**

(Effective from the academic year 2023-2024)

COST ACCOUNTING**CODE: 23BA/MC/CA23****CREDITS: 3****L T P: 3 1 0****TOTAL TEACHING HOURS: 52****OBJECTIVES OF THE COURSE**

- To provide an understanding of the basic concepts of cost accounting
- To enable students to understand the methods of ascertaining the product cost
- To help the students learn the applications of cost accounting in business
- To familiarize students on the applications of cost control concepts and techniques for effective planning and forecasting
- To impart practical knowledge of costing with the help of problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall the facts, concepts and principles of cost accounting and its relevance	K1
CO2	understand the cost information reflected in financial statements	K2
CO3	develop the ability to present cost information clearly to non-financial stakeholders, aiding better decision-making across the organization	K3
CO4	analyze deviations and take corrective actions to control costs and improve performance	K4
CO5	assess the costs and benefits of different methods of costing systems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Nature of Cost Accounting			
	1.1 Meaning, Objectives, Scope and Limitations	K1 – K2	1	1 - 2
	1.1 Difference between Financial, Cost and Management Accounting	K1 – K2	2	1 - 2
	1.2 Basic Concepts and Elements of Cost – Cost, Cost Center and Cost Unit	K1 – K2	2	1 - 2
2	Material Cost and Material Control			
	2.1 Need and Importance of Material Control	K1 – K2	2	1 - 2
	2.2 Computation of Material Cost and Accounting Treatment for Normal, Abnormal Loss and Scrap	K1 – K5	3	1 - 5
	2.3 Purchase Control – Purchase Procedure	K1 – K2	1	1 - 2

UNIT	CONTENT	CL	HRS	CO
	2.4 Stores Control			
	2.4.1 Level Setting	K1 – K2	1	1 - 2
	2.4.2 Inventory Control – Methods and Techniques	K1 – K5	1	1 - 5
	2.5 Issue Control			
	2.5.1 Methods of Material Issue - First in First Out, Last in First Out, Average Cost - Simple and Weighted Average	K1 – K5	4	1 - 5
3	Labour Cost, Remuneration and Incentives			
	3.1 Computation of Labour Cost with Overtime and Idle Time	K1 – K5	3	1 – 5
	3.2 Methods of Remuneration- Time Rate System, Piece Rate System, Taylor’s Differential Piece Rate System	K1 – K5	3	1 - 5
	3.3 Incentive Plans -Halsey Premium Plan, Rowan Premium Plan	K1 – K5	2	1 - 5
	3.4 Labour Turnover – Methods of Computation	K1 – K5	2	1 - 5
4	Overheads			
	4.1 Importance and Classification of Overhead Costs	K1 – K2	2	1 - 2
	4.2 Apportionment and Allocation of Overheads			
	4.2.1 Primary Distribution of Overheads	K1 – K5	3	1 - 5
	4.2.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non-Reciprocal Methods	K1 – K5	4	1 - 5
	4.3 Methods of Absorption of Overheads			
	4.3.1 Direct Labour Hour Rate	K1 – K5	2	1 - 5
	4.3.2 Machine Hour Rate	K1 – K5	2	1 - 5
5	Methods of Costing			
	5.1 Unit Costing- Computation of Product Cost and Profit, Preparation of Cost Sheet	K1 – K5	4	1 - 5
	5.2 Process Costing			
	5.2.1 Meaning and Features of Process Costing	K1 – K2	1	1 - 2
	5.2.2 Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage and Abnormal Gain	K1 – K5	2	1 - 5
	5.3 Activity Based costing – Only Theory	K1 – K2	2	1 - 2

BOOKS FOR STUDY

Jain S.P. and Narang K.L., Cost Accounting, New Delhi, Kalyani Publishers 2014
Reddy T.S and Murthy A, Cost Accounting, Chennai, Margham, 2012

BOOKS FOR REFERENCE

Khanna B.S., Pandey I.M., Ahuja G.K., Arora M.N., Practical Costing, New Delhi, Sultan Chand, 2010
Maheswari S.N., Problems and solutions in Cost Accounting, 12th edition, IK International Publishing House Pvt, 2020
Ravi M. Kishore, Cost Accounting, 6th edition, Taxmann's, 2021
R.Palaniappan and N.Hariharan, Cost Accounting, IK International Publishing House Pvt,Ltd, 2014

JOURNALS

Journal of Entrepreneurship & Management
Cost Accounting Standards- The ICWA of India Indian Journal of Finance
Management Accountant- The ICWA of India

WEB RESOURCES

icwaijournal
www.accaglobal.com
www.icai.org

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 x 2 = 6 (no Choice - 1 Theory and 2 Problems)
B	K2	10	2 x 5 = 10 (from a choice of three questions-1 Theory and 2 Problems)
C	K3, K4	20	2 x 10 = 20 (internal choice for one K3 question and one K4 question-only Problems)
D	K5	14	1 x 14 = 14 (out of 2 questions-only Problems)

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work –
Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice- 2 Theory and 3 Problems)
B	K2	20	4 × 5 = 20 (out of 6 questions- 2 Theory and 4 Problems)
C	K3, K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-only Problems)
D	K5	30	2 × 15 = 30 (out of 3 questions-only Problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/CA23												
II	Course Title: Cost Accounting												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	3	3	3	3	3	3	2
CO 2	3	3	3	1	2	3	3	3	3	3	3	3	2
CO 3	3	3	3	1	2	3	3	3	3	3	3	3	2
CO 4	3	3	3	1	3	2	3	3	3	3	3	2	2
CO 5	3	3	2	1	2	3	2	3	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

MARKETING MANAGEMENT

CODE: 23BA/MC/MM23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To familiarize students about marketing concepts and its integration in business
- To acquaint students with a comprehensive knowledge in administrating a product/ service in a market place
- To sensitize students on consumer psychology and behavior
- To enable students to understand the various elements of a marketing mix
- To provide students to explore the dynamic landscape of digital marketing

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	define key terms used in marketing management	K1
CO2	explain the principles and elements of marketing management	K2
CO3	relate the competitive insights to create effective marketing strategies for the product or service	K3
CO4	analyze the effectiveness of marketing strategies in customer retention	K4
CO5	evaluate the success of marketing campaigns to meet the changing needs of business environment	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Market and its Environment			
	1.1 Definition and Concepts in Marketing	K1-K2	3	1-2
	1.2 Market Scanning – Micro and Macro Environment of Business, Competition Analysis	K1-K5	3	1-5
	1.3 Seven Elements of Marketing Mix	K1-K5	4	1-5
2	Consumer Behaviour			
	2.1 Consumer Buying Decision Making Process	K1-K5	3	1-5
	2.2 Factors affecting the Consumer Decision Making Process	K1-K5	3	1-5
	2.3 Difference between Consumer Buyer and Industrial Buyer	K1-K4	3	1-4

UNIT	CONTENT	CL	HRS	CO
	2.4 Industrial Buyer – Participants and their Role, Concept of Tender Purchases	K1-K2	2	1-2
3	Product			
	3.1 Market Segmentation – Classification	K1-K5	3	1-5
	3.2 Product Mix – Length, Width, Consistency, Depth and Stretching	K1-K3	3	1-3
	3.3 New Product Development	K1-K5	3	1-5
	3.4 Product Life Cycle	K1-K5	2	1-5
4	Distribution and Pricing			
	4.1 Levels of Channels of Distribution, Factors in Selecting Right Channel	K1-K4	2	1-4
	4.2 Types and Role of Intermediaries	K1-K4	3	1-4
	4.3 Pricing – Types of Pricing – Cost Based, Competition Based, Other Types	K1-K5	2	1-5
	4.4 Basics of E-Logistics	K1-K2	3	1-2
5	Promotion and Advertising			
	5.1 Advertising – Importance and Types	K1-K2	3	1-2
	5.2 Direct Sales –Meaning, Pros and Cons	K1-K2	2	1-2
	5.3 Digital Marketing - Meaning, Types and Trends	K1-K5	2	1-5
	5.4 Sustainable Marketing – Meaning, Pros and Cons	K1-K5	3	1-5

BOOKS FOR STUDY

Kotler Philip, Armstrong Gary, Agnihotri Prafulla, Principles of Marketing, 17th Edition Pearson Publication New Delhi 2018

Kotler Philip. Marketing Management- South Asian Perspective, Pearson Publication New Delhi 2012

Raju M.S. Fundamentals of Marketing. New Delhi: Excel Books, 2008

BOOKS FOR REFERENCE

John, Wilmhurst. Fundamentals and Practice of Marketing. New Delhi: Viva Books, 2011

Staton, William J. Etzel, Michael J. and Walker Bruce J. Fundamentals of Marketing. McGraw Hill (International edition) Inc, 2004

Saxena Rajan. Marketing Management. New Delhi: Tata McGraw Hill, 2005

Keegan.W.J , Global Marketing Management, NewDelhi, Prentice Hall of India, 2013

JOURNALS

International Journal of Research in Marketing

Indian Journal of Marketing

Journal of Marketing Education

WEB RESOURCES

<http://smallbusiness.chron.com>

<http://productlifecyclestages.com>

<http://www.innovationcoach.com>

<http://www.marketing-schools.org>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 = 10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 = 20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis / Quiz / Panel Discussion / Group Presentation etc.

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BA/MC/MM23												
II	Course Title: Marketing Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	1	1	3	2	3	1	2
CO 2	3	3	3	2	2	2	1	1	3	2	3	1	2
CO 3	3	3	3	3	2	2	2	1	3	2	3	1	2
CO 4	3	3	3	3	2	2	2	1	3	2	3	1	2
CO 5	3	3	3	3	2	2	2	1	3	2	3	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

MANAGEMENT INFORMATION SYSTEM

CODE: 23BA/AC/MI25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide insights to the fundamentals of Information System
- To equip students about the functions of different Information Systems
- To familiarize the role of MIS in business decision making
- To apply security policies and privacy control in designing MIS
- To build and implement a successful ethical Management Information System

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	define the core concepts in Management Information System	K1
CO2	explain the scope, purpose and value of Information System in an organization	K2
CO3	apply the procedures and develop a secure Management Information Systems	K3
CO4	analyse the various divisions of the Information System and their interdependence	K4
CO5	evaluate the impact of recent technologies on Management Information System	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Concepts of Data and Information	K1	2	1
	1.2 Quality of Information	K1-K2	2	1-2
	1.3 Levels of Management and Information Needs	K1-K2	2	1-2
	1.4 System- Meaning, Nature and Elements, System life cycle	K1-K2	2	1-2
2	Information System			
	2.1 Meaning, Objectives and Dimensions	K1-K2	3	1-2

UNIT	CONTENT	CL	HRS	CO
	2.2 Evolution and Types of Information System- Transaction Processing Systems, Management Information Systems, Decision Support Systems, Group Decision Support System, Executive Information Systems, Executive Support System	K1-K5	5	1-5
	2.3 Components of Information System	K1-K5	3	1-5
	2.4 Database Management System- Meaning, Scope and Functions	K1-K5	4	1-5
	2.5 Big Data Analytics – Meaning, Features and Importance			
3	Management Information System – Overview			
	3.1 Meaning, Purpose and Features of MIS	K1-K5	4	1-5
	3.2 MIS Planning Framework: Nolan Stage Model	K1-K5	3	1-5
	3.3 Role of MIS in decision making	K1-K5	3	1-5
	3.4 New Trends in MIS, Meaning and Benefits of Cloud Storage and AI Technologies	K1-K5	5	1-5
4	Management Information System- Design and Control			
	4.1 System design –Meaning, SDLC and DFD	K1-K5	3	1-5
	4.2 Implementation, Evaluation and maintenance of MIS	K1-K5	4	1-5
	4.3 Challenges in the development of MIS	K1-K5	2	1-5
	4.4 IS Vulnerability and Cyber Crimes – Meaning and current threats to security	K1-K5	3	1-5
	4.5 Tools and Technologies for protecting the Digital Firm	K1-K5	3	1-5
5	Functional Management Information System			
	5.1 Functional MIS- Meaning and Types	K1-K5	2	1-5
	5.2 Objectives and Functions of Production, Marketing, Financial, Human Resource, Accounting MIS	K1-K5	5	1-5
	5.3 Interrelationship of Functional Management Information Systems	K1-K5	2	1-5
	5.4 Enterprise Resource Planning- Meaning and Integration with MIS	K1-K5	3	1-5

BOOKS FOR STUDY

James O'Brien and George Marakas, Management Information Systems, McGrawHill, 10th Edition, 2011

Kenneth Laudon, Jane Laudon, Management Information Systems: Managing the Digital Firm (15th Edition), 2017

BOOKS FOR REFERENCE

Jörg Becker, Oleg Kozyrev, Emerging Trends in Information Systems: Recent Innovations, Results and Experiences, Springer; 1st ed. 2016

Ramesh Behl, James A. O'Brien, George M. Marakas, Management Information Systems, McGrawHill, 10th Edition, 2019

Sadagopan S, Management Information Systems, Prentice Hall India, 2014

JOURNALS

International Journal of Information Management

Journal of Management Information Systems (JMIS)

Journal of Management Information Systems and E-Commerce

Asian Journal of Computer and Information Systems

WEB RESOURCES

<https://ecomputernotes.com/mis>

<https://csrc.nist.gov>

<https://www.sciencedirect.com/journal/information-systems>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:

Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/AC/MI25												
II	Course Title: Management Information System												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	1	1	1	1	2	2	2	2	1
CO 2	3	2	1	3	1	1	2	2	3	3	2	2	2
CO 3	3	3	2	3	2	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A/ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23BA/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 (13 Hours)
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 (13 Hours)

3.1 Energy conservation

- 3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant
- 3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

- 3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing
- 3.2.2 **Configuring Email**
Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails
- 3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

- Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.
- Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.
- Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.
- John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.
- Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.
- Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.
- Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.
- Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.
- Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group Discussions

Group Presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment:**

Two Classroom Tasks

Total Marks:50

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

HUMAN RESOURCE MANAGEMENT

CODE: 23BA/MC/HR34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To gain a comprehensive understanding of HRM principles, processes and practices
- To develop practical skills in areas of HR functions to effectively contribute to organizational success and employee well-being
- To impart knowledge about human resource acquisition and development
- To orient the students about the roles and functions of human resource manager
- To provide an understanding of the relevance of human resource management in the changing global economy

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall facts, terms, basic concepts used in HRM	K1
CO2	understand the principles, practices and functions of Human Resource Management	K2
CO3	develop managerial skills to excel in roles related to talent acquisition, development, performance management, compensation and HR strategy	K3
CO4	analyze complex HRM challenges and making informed decisions to address them	K4
CO5	evaluate and align HRM practices with the organization's strategic goals and values	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Significance, Objectives, Role and Status of Human Resource Management	K1-K3	5	1-3
	1.2 Functions and Scope of Human Resource Management	K1-K5	3	1-5
	1.3 Personnel Management and Human Resource Management	K1-K4	2	1-4

UNIT	CONTENT	CL	HRS	CO
2	Procuring Human Resource			
	2.1 HR Planning – Objectives, Process, Importance and Problems	K1-K5	3	1-5
	2.2 Job Analysis – Concept and Importance, Job Description and Job Specification	K1-K5	3	1-5
	2.3 Recruitment – Sources	K1-K5	3	1-5
	2.4 Selection – Procedure	K1-K5	3	1-5
3	Induction, Training and Development			
	3.1 Induction- Meaning, Importance and Methods	K1-K5	3	1-5
	3.2 Training – Need, Importance, Types, Assessment of Training needs, benefits of Training, Methods and Evaluation	K1-K5	5	1-5
	3.3 Development Programmes- Objective, Importance, Process, Methods and Techniques of Executive Development	K1-K5	5	1-5
4	Performance Appraisal and Compensation			
	4.1 Performance Appraisal – Objectives, Uses, Process, Problems, Methods of Performance Appraisal	K1-K5	4	1-5
	4.2 Compensation			
	4.2.1 Job Evaluation – Meaning, Objectives, Process and Methods	K1-K5	3	1-5
	4.2.2 Wage and Salary Administration – Meaning, Objectives, Factors, Methods and Components - ESOP, Profit Sharing, Fringe Benefits	K1 – K5	5	1-5
	4.2.3 Incentive Plans – Meaning and Types	K1-K5	3	1-5
5	Promotion, Transfers and Turnover			
	5.1 Promotions - Meaning, Purpose and Types	K1-K5	4	1-5
	5.2 Transfer – Meaning, Need, Purpose and Types Demotion-Meaning and Causes of Demotion	K1-K5	6	1-5
	5.3 Turnover –Meaning, Causes and Challenges	K1-K5	5	1-5

BOOKS FOR STUDY

Aswathappa K, Human Resource Management: Text and Cases, Tata McGraw Hill, 2017
Gupta, C. B. Human Resource Management. New Delhi: Sultan Chand, 2014

BOOKS FOR REFERENCE

Armstrong, Michael. A handbook of Human Resource Management. U.K: Kogan Page, 2013.
Dessler Gary. Human Resource Management. New Delhi: Pearson Education, 2014
Flippo, Edwin B. Personnel Management. Singapore: Pearson Education Co, 2017
Khanka, S.S. Human Resource Management. (Text and Cases), New Delhi: S. Chand, 2019
Prasad, L.M. Human Resource Management. New Delhi: Sultan Chand, 2023

JOURNALS

International Journal of Management Reviews
The Human Resource Management Review
Human Resource Management International
Digest Human Resource Management Journal

WEB RESOURCES

<http://www.whatishumanresource.com/human-resource-planning> <https://www.sumhr.com/top-performance-appraisal-methods-startups-small-businesses/> <https://businessjargons.com/traditional-methods-of-performance-appraisal.html> <https://managementation.com/methods-of-executive-development>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/HR34												
III	Course Title: Human Resource Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	1	3	3	3	3	3	3	3	2	3
CO 3	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	1	3	3	1	3	3	3	3	3	3
CO 5	3	3	3	1	2	3	3	1	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI — 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS AND ITS LEGAL ENVIRONMENT

CODE: 23BA/MC/BL34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to acquire the knowledge of legal environment in which business operate
- To identify the fundamental legal principles of contractual agreement
- To familiarise students with the provisions of Indian Contracts Act
- To educate students on the provisions relating to the Contract of Sales Act
- To acquaint students on consumer protection Act in India

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain an overview of important Business Laws that have a bearing on the conduct of business in India	K1
CO2	identify the fundamental legal principles behind contractual agreements.	K2
CO3	analyse legal issues in business operations, including contract law, consumer protection act and intellectual property law.	K3
CO4	perceive knowledge of legal research to the actual business situations.	K4
CO5	formulate new legal and regulatory policies that may affect business operations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Indian Contract Act 1872			
	1.1 Meaning and Types of Contracts	K1-K4	4	1-4
	1.2 Requisites of a Valid Contract	K1-K4	4	1-4
	1.3 Performance of Contract	K1-K4	3	1-4
	1.4 Discharge of Contract, Remedies for Breach of Contract	K1-K4	4	1-4
2	Sale of Goods Act 1930			
	2.1 Essentials for a Contract of Sale	K1-K3	4	1-3
	2.2 Implied Conditions and Warranties	K1-K4	4	1-4
	2.3 Transfer of Ownership and Delivery of Goods	K1-K5	3	1-5
	2.4 Rights of Unpaid Seller	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
3	Limited Liability Partnership and Intellectual Property Laws in India			
	3.1 Limited Liability Partnership Act, 2008			
	3.1.1 Definition and Characteristics	K1-K4	2	1-4
	3.1.2 Registration Process and Regulations	K1-K4	2	1-4
	3.1.3 Financial Disclosure and Annual Returns	K1-K4	2	1-4
	3.2 Intellectual Property Laws in India – Trade Mark, Patents, Copyrights and GI - Provisions relating to Registration and Enforcement	K1-K5	4	1-5
4	Information Technology Act 2000			
	4.1 Introduction			
	4.1.1 Objectives and Features of Act	K1-K3	2	1-3
	4.1.2 Matters not covered in the Act and Provisions in the Act.	K1-K3	2	1-3
	4.2 Encryption			
	4.2.1 Systems of Encryption	K1-K3	3	1-3
	4.2.2 Types of Encryption-Single Key and Double Key	K1-K2	3	1-2
	4.3 Digital Signature and Functions and Digital Signature Certificates	K1-K4	3	1-4
	4.4 Electronic Documents and Contracts	K1-K5	2	1-5
5	Consumer Protection Act 1986			
	5.1 Overview of Consumer Protection Act	K1-K3	2	1-3
	5.2 Significance, Consumer Duties and Responsibilities	K1-K4	3	1-4
	5.3 Consumer Protection Councils	K1-K4	2	1-4
	5.4 Consumer Disputes Redressal Agencies	K1-K5	3	1-5

BOOKS FOR STUDY

Kapoor N D, Business Law, New Delhi: Sultan Chand & Sons, 2022

Sharma Vakul, Information Technology Law and Practice, New Delhi, Universal L Publishing Co. Pvt Ltd, 2021

BOOKS FOR REFERENCE

Aggarwal S K, Indian Business Laws, New Delhi: Galgotia Publishing Company, 2017 Singh, Avtar, Law of Contract, Lucknow: Eastern Book Company, 2018

The Consumer Protection Act, 1986, Bare Act with Short notes, New Delhi, Universal Law Publishing Co. Pvt Ltd, 2021

JOURNALS

India Law Journal

Corporate Law Reporter

Indian Journal of Law and Technology Symbiosis

Contemporary Law Journal

WEB RESOURCES

<https://indiankanoon.org>

<https://www.lawctopus.co>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3, K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/BL34												
III	Course Title: Business and its Legal Environment												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	2	2	2	3	2	2	3	2
CO 2	3	2	2	1	2	2	3	1	3	2	3	3	2
CO 3	2	3	3	1	3	3	3	2	3	2	3	3	3
CO 4	2	2	3	1	3	3	3	2	3	3	3	2	3
CO 5	3	3	3	1	3	3	3	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

FINANCIAL MARKETS AND SERVICES

CODE: 23BA/MC/FS34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVE OF THE COURSE

- To acquire conceptual understanding of financial system
- To identify various financial market and their corresponding instruments
- To acquaint the students with the structure and functioning of the financial markets in India
- To develop awareness about the participants in the market system
- To equip students on recent investment strategies and financial services

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Define the key terms used in the Financial System	K1
CO2	Explain the financial market structure and the allied financial service	K2
CO3	Determine the significance and functions of financial assets and services	K3
CO4	Analyse the working mechanism of the components in the securities market	K4
CO5	Evaluate the current market challenges and regulations governing the Indian Financial service sector	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Indian Financial System and its Components			
	1.1 Indian Financial System – Meaning, Features and Significance of Indian Financial System	K1-K4	4	1-4
	1.2 Components of Indian Financial System – Financial Institution, Financial Markets, Financial Instruments and Financial Services	K1-K4	4	1-4
	1.3 Functions of Indian Financial System	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
2	Financial Markets			
	2.1 Financial Markets – Meaning, Functions and Characteristics of Financial Markets	K1-K4	3	1-4
	2.2 Classification of Financial Markets – Debt Markets, Equity Markets, Primary Markets, Secondary Markets, Organized Exchanges, Over-the-counter Markets	K1-K5	3	1-5
	2.3 Financial Regulatory Bodies- Role of SEBI and RBI	K1-K5	4	1-5
3	Financial Market Instruments			
	3.1 Capital Market			
	3.1.1 Functions and Constituents of Capital Markets	K1-K4	2	1-4
	3.1.2 Structure of Capital Markets in India-Issuers, Investors and Intermediaries	K1-K5	3	1-5
	3.1.3 Instruments of Capital Markets - Ownership securities and Debt Securities	K1-K4	3	1-4
	3.2 Money Market			
	3.1.1 Functions and Participants of Money Markets	K1-K5	2	1-5
	3.1.2 Instruments of Money Markets - Treasury bills, Commercial Papers, Certificate of Deposit, Banker's Acceptance, Repo, Call Money Instruments	K1-K4	2	1-4
	3.3 Derivatives Market – Types of Derivatives	K1-K5	3	1-5
4	4.1 Introduction to Financial Services			
	4.1.1 Meaning, Functions, Features and Importance of Financial Services in India	K1-K4	3	1-4
	4.1.2 Emerging Issues and Challenges in Financial Services Sector	K1-K5	4	1-5
	4.2 Fee based Financial Services			
	4.2.1 Merchant Banking - Meaning, Definition, Functions of a Merchant Banker and Scope of Merchant Banking in India	K1-K4	4	1-4
	4.2.2 Credit rating services – Meaning and Need for Rating with Special Reference to ICRA and CRISIL	K1-K5	4	1-5
5	Allied Financial Services			
	5.1 Mutual fund – Meaning, Types and Criteria for Selection of Mutual fund	K1-K5	5	1-5
	5.2 Factoring - Definition, Importance and Types	K1-K4	3	1-4

UNIT	CONTENT	CL	HRS	CO
	5.3 Leasing – Meaning, Importance and Types	K1-K4	3	1-4
	5.4 Venture Capital Financing – Meaning, Importance and Stages	K1-K5	4	1-5

BOOKS FOR STUDY

M.Y. Khan. Indian Financial System. McGraw Hill Education India; 11th edition
Gurusamy, S. Financial Services. Tata McGraw Hill, 2011

BOOKS FOR REFERENCE

Vinod Kumar, Atul Gupta, Manmeet Kaur. Financial Markets & Institutions. Taxmann, 2018 edition
Jeff Madura. Financial Institutions and Markets. Cengage; 10th edition, 2014
Bharathi. V. Pathak. Indian Financial System, Pearson Education India; 4th edition, 2018
Sujatra Bhattacharyya, Indian Financial System, Oxford University Press; 2st Edition, 2018

JOURNALS

Journal of Service industry
Journal of International Money and Finance
Indian Journal of Finance
International Journal of Banking and Finance

WEB RESOURCES

<https://financialservices.gov.in/>
<https://www.mckinsey.com/industries/financial-services>
<https://www.crunchbase.com/>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/FS34												
III	Course Title: Financial Markets and Services												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	2	1	1	1	3	2	2	1	1
CO 2	3	3	1	3	2	1	2	2	3	3	2	2	2
CO 3	3	3	1	3	2	2	2	2	3	3	2	2	2
CO 4	3	3	3	3	3	3	3	3	2	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENTREPRENEURIAL MANAGEMENT

CODE: 23BA/MC/EM34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to foundational understanding of entrepreneurship
- To acquaint students with the skills to identify, assess, and select business opportunities in various sectors
- To learn how to create a model project report for launching a new venture
- To develop the skills required to prepare a Business Plan
- To highlight the significance of gender-inclusive entrepreneurship

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the key terms and concepts related to entrepreneurship and its management	K1
CO2	Explain the processes and frameworks underlying entrepreneurial management	K2
CO3	Use appropriate entrepreneurial tools and frameworks to develop comprehensive business plans and project reports for real-world startup scenarios, with a special emphasis on women-led ventures	K3
CO4	Analyse the various factors influencing entrepreneurial opportunities in various sectors	K4
CO5	Assess the strategies and procedures for the growth and success of gender-inclusive entrepreneurship	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Entrepreneur and Entrepreneurship			
	1.1 Entrepreneur - Meaning, Definition, Scope, Need and Function	K1-K5	4	1-5
	1.2 Entrepreneurship - Meaning, Definition, Characteristics, Types, Need and Factors Influencing Growth of Entrepreneurship	K1-K5	4	1-5
	1.3 The Entrepreneurial Process - Role of Entrepreneurship in the Economy - Barriers to entrepreneurship	K1-K5	3	1-5
	1.4 Entrepreneur Vs. Entrepreneurship, Entrepreneur Vs. Manager, Entrepreneur vs. Intrapreneur	K1-K4	2	1-4

UNIT	CONTENT	CL	HRS	CO
2	Opportunity Identification and Evaluation			
	2.1 Environmental Analysis - SWOT Analysis 2.2 Need for Opportunity Identification and Selection – Business Opportunities in various sectors	K1-K5	4	1-5
	2.3 Identification of Business Opportunities or Product Ideas - Idea Generation, Sources of Business Idea, Screening of Business Idea, Evaluation of Business Idea, Selection of Business Idea	K1-K5	5	1-5
	2.4 Business Plan – Meaning – Content – Significance – Formulation - Business Plan Process	K1-K5	4	1-5
3	Project Formulation			
	3.1 Meaning and Definition of Project – Project Formulation - Project Lifecycle	K1-K5	3	1-5
	3.2 Project Feasibility Analysis - Technical, Economic, Marketing and Financial	K1-K5	4	1-5
	3.3 Project Report – Preparation – Guidelines	K1-K5	4	1-5
	3.4 Preparing Model Project Report for Starting a New Venture	K1-K5	4	1-5
4	Entrepreneurial Finance / Financing New Ventures			
	4.1 Startup Funding – Meaning and Significance - Role of finance in entrepreneurship	K1-K5	4	1-5
	4.2 Financing lifecycle of a New Venture - Challenges in New Venture Financing	K1-K5	3	1-5
	4.3 Sources of Financing and its classification	K1-K5	5	1-5
5	Women Entrepreneurship			
	5.1 Women Entrepreneurship – Functions – Growth of Women Entrepreneurship in India	K1-K5	3	1-5
	5.2 Problems and Challenges faced by Women Entrepreneurs – Strategies for the Development - SHG	K1-K5	4	1-5
	5.3 Institutions and Special Bank Schemes Supporting Women Entrepreneurship	K1-K5	5	1-5

BOOKS FOR STUDY

S. S. Khanka., Entrepreneurial Development, S. Chand Limited, 2006
 Poornima M Charanthimath., Entrepreneurship Development and Small Business Enterprises, 2nd Edition, Pearson Publication, 2018
 Sharma, Sangeeta., Entrepreneurial Development, PHI Learning Pvt. Ltd, 2021
 Gupta, C.B., &Srinivasan, N.D., Entrepreneurship Development, New Delhi Sultan Chand & Sons, 2012

BOOKS FOR REFERENCE

Desai, V., The Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House, 6th edition, 2014
 David, H., Entrepreneurial Development, Prentice Hall, 5th edition, 2013
 Dr. A.K. Singh., Entrepreneurship Development and Management, Laxmi Publications Pvt Limited, 2009

R. C. Agarwal, Dr. B. K. Mehta., Entrepreneurship and Small Business, SBPD Publishing House, 2020

S. Anil Kumar., Entrepreneurship Development, New Age International, 2009

Bholanath Dutta., Entrepreneurship Management (Text and Cases), Excel Books India, 2009

JOURNALS

Journal of Entrepreneurship & Management

International Entrepreneurship and Management Journal

The Journal of Entrepreneurship

World Journal of Entrepreneurship, Management and Sustainable Development

The International Journal of Entrepreneurship and Innovation

WEB RESOURCES

www.entrepreneur.com

<https://www.businessesforsale.com>

<https://www.sba.gov>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:

Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/EM34												
III	Course Title: Entrepreneurial Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	1	1	2	2	1	1	1	1	1	-	1
CO 2	3	3	2	1	3	3	2	2	2	3	3	1	3
CO 3	1	2	3	1	2	2	1	1	3	1	3	-	2
CO 4	1	2	1	1	2	3	1	1	2	2	2	3	1
CO 5	2	3	2	1	3	3	1	1	-	1	2	-	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI — 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS STATISTICS

CODE: 23BA/AC/BS35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to the concepts of business statistics
- To acquaint students on the various statistical tools in business
- To instruct the students on the appropriate usage of statistical methods
- To provide effective use of various statistical methods related to business research
- To equip students on data interpretation using a variety of statistical methods and tools

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the concepts of business statistics	K1
CO2	explain the application of statistical tools in the real world	K2
CO3	apply statistical techniques to solve business problems	K3
CO4	analyze on the different methods of statistical techniques	K4
CO5	evaluate statistical methods to make logical conclusions	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Types of Data, Nominal, Ordinal, Scale and Ratio	K1-K3	2	1-3
	1.2 Measures of Central Tendency - Mean, Mode and Median	K1-K5	5	1-5
	1.3 Bar Chart, Pie Chart and Box Plot, Histogram, Stem and Leaf Diagram	K1-K5	3	1-5
2	Measures of Dispersion			
	2.1 Range – Quartile deviation – Mean deviation – Standard deviation	K1-K5	4	1-5
	2.2 Coefficient of variation – Combined mean and standard deviation	K1-K5	4	1-5
	2.3 Skewness - Karl Pearson and Bowley's coefficient of skewness	K1-K5	5	1-5

UNIT	CONTENT	CL	HRS	CO
3	Correlation and Regression			
	3.1 Meaning Scatter diagram – Karl Pearson's coefficient of correlation – Rank correlation	K1-K5	7	1-5
	3.2 Regression: Importance of regression analysis – Regression equations	K1-K5	6	1-5
4	Time Series			
	4.1 Components of time series – Measurements of trend – Graphical method, Semi average method	K1-K5	4	1-5
	4.2 Moving average method and method of least squares – Measurements of seasonal variation	K1-K5	4	1-5
	4.3 Method of simple averages, Ratio-to-trend method, Ratio-to-moving average method and link relative method	K1-K5	5	1-5
5	Statistical Inference and Hypothesis Testing			
	5.1 Population and Sample - Null and Alternate Hypothesis	K1-K3	4	1-3
	5.2 Level of Significance - Confidence Intervals - Type I and Type II Errors	K1-K2	4	1-2
	5.3 One Way Analysis of Variance and Chi Square Test	K1-K5	5	1-5

BOOKS FOR STUDY

Gupta S.P., Statistical Methods, New Delhi, Sultan Chand and Sons, 2012

BOOKS FOR REFERENCE

Agarwal Y.P., Statistical Methods, Concepts, Applications and Computations, New Delhi, Sterling Publishers Ltd., 2012

Beri, G.C., Business Statistics, New Delhi, Tata Mc Graw Hill publishing Company Ltd., 2010

Pillai, R.S.N. & Bagavathy, V., Statistics, 13th edition, New Delhi, Sultan Chand and Sons, 2010

Sanchetti, V.C., & Kapoor, Business Statistics, 7th edition, New Delhi, Sultan Chand and Sons, 2012

Sharma J.K., Business Statistics, New Delhi, 1st edition, Pearson Education (Singapore), Pvt., Ltd., Indian Branch, 2012

JOURNALS

Journal of Applied Statistics

Aligarh Journal of Statistics

Journal of Applied Statistics

Statistics Journal

WEB RESOURCES

www.ststisticsofindia.com

www.indiastat.com

www.statsoft.com

<http://statistics-help-for-students.com>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 x 2 = 6 (no Choice - 1 Theory and 2 Problems)
B	K2	10	2 x 5 = 10 (from a choice of three questions-1 Theory and 2 Problems)
C	K3, K4	20	2 x 10 = 20 (internal choice for one K3 question and one K4 question-only Problems)
D	K5	14	1 x 14 = 14 (out of 2 questions-only Problems)

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice- 2 Theory and 3 Problems)
B	K2	20	4 × 5 = 20 (out of 6 questions- 2 Theory and 4 Problems)
C	K3, K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-only Problems)
D	K5	30	2 × 15 = 30 (out of 3 questions-only Problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/AC/BS35												
III	Course Title: Business Statistics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	1	3	2	3	2	1
CO 2	3	3	3	2	2	2	2	1	3	2	3	2	1
CO 3	3	3	3	2	2	2	2	1	3	2	3	2	1
CO 4	3	3	3	2	2	2	2	1	2	2	2	2	1
CO 5	3	3	3	2	2	2	2	1	2	2	2	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

WORKFORCE BEHAVIOUR

CODE: 23BA/MC/WB44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand individual and group behavior within organizations
- To introduce the various challenges and complexities involved in managing a diverse workforce in modern organizations
- To familiarize the stress management techniques and conflict resolution strategies
- To analyse the dynamics of group behavior
- To instill an awareness of diversity and inclusion, and their significance in promoting a positive organizational culture

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the core workforce behavior concepts and approaches	K1
CO2	explain how organizational culture influences employee behavior and performance	K2
CO3	apply motivational theories and behavioral concepts to enhance employee engagement and productivity in organizations	K3
CO4	breakdown complex organizational behavior issues into smaller parts and analyze how they relate to each other	K4
CO5	assess the impact of individual and group behavior on organizational effectiveness	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Nature, Importance and Scope of Behaviour of Work Force in an Organization	K1-K4	3	1-4
	1.2 Basic Concepts, Approaches and Contributing Disciplines of Organizational Behaviour	K1-K5	4	1-5
	1.3 New Challenges in Managing Work Force	K2-K5	3	2-5
2	Individual Behaviour			
	2.1 Individual Behaviour – Factors Influence to Individual Behaviour	K1-K5	4	1-5
	2.2 Personality – Definition, Personality Traits	K1-K5	3	1-5
	2.3 Perception – Meaning and Definition, Perceptual Process	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
	2.4 Attitudes – Nature of Attitudes, Formation of Attitudes, Sources of Attitude			
3	Stress and Conflict Management			
	3.1 Stress- Nature of Stress, Causes and Consequences of Stress, Managing Stress in Workplace	K1-K5	6	1-5
	3.2 Conflict in Organizations – Nature of Conflict, Functional and Dysfunctional Conflict and Strategies for Resolving Conflict	K1-K5	6	1-5
4	Organisational Structure and Culture			
	4.1 Organization Structure – Meaning, Features of Good Organisational Structure, Importance and Types of Organisational Structure	K1-K5	7	1-5
	4.2 Organisational Culture- Meaning and Definition, Changing Organisational Culture	K1-K5	6	1-5
5	Group Dynamics and Motivation and its theories			
	5.1 Nature of Groups – Types of Groups – Group Development - Usefulness of Groups in Organisations – Pitfalls of Groups – Determinants of Group Behaviour – Group Decision making	K1-K5	7	1-5
	5.2 Motivation – Nature, Importance and Challenges, Motivational Theories - Maslow, Herzberg, David McClelland, and McGregor's Theory X and Theory Y	K1-K5	8	1-5

BOOKS FOR STUDY

Aswathappa, K, G. Sudarsana Reddy, Organisational Behaviour. New Delhi: Himalaya, 2016

Robbins P. Stephen., Organisational Behaviour – Concepts, Controversies and Applications, Prentice Hall, 2010

BOOKS FOR REFERENCE

Luthans, Fred., *Organisational Behaviour*. Singapore: McGraw Hill, 2010

Mishra M. N., *Organisational Behaviour*. New Delhi: Vikas, 2010

Prasad L.M., *Organisational Behaviour*. New Delhi: Sultan Chand, 2019

JOURNALS

Academy of Management Journal

Journal of Organizational Behavior

Journal of Organizational Culture

WEB RESOURCES

aom.org

www.exed.hbs.edu

www.hbr.org

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/WB44												
IV	Course Title: Workforce Behaviour												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	2	1	1	1	3	2	3	1	1
CO 2	3	3	3	3	2	1	2	2	3	3	3	2	2
CO 3	3	3	2	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023 –2024)

INTRODUCTION TO FINANCIAL MANAGEMENT

CODE: 23BA/MC/IF44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide the student with a sound conceptual frame work for financial decision- making
- To acquaint the students with the basic tools and principles of financial management
- To impart knowledge about financial structure
- To enable students to evaluate the Capital Budgeting proposals
- To demonstrate to the students the importance of working capital management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall the key concepts, principles and objectives of financial management and its role in successful business	K1
CO2	Understand the importance of investment, financing and dividend decisions	K2
CO3	Identify the basic tools and techniques of financial management for decision making	K3
CO4	Examine the knowledge and skills necessary to navigate complex financial scenario to support the success of the organization	K4
CO5	Evaluate the most profitable projects among the numerous investment proposals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Nature of Financial Management			
	1.1 Modern Approach to Financial Management			
	1.1.1 Investment Decisions	K1 – K2	1	1-2
	1.1.2 Finance Decisions	K1 – K2	1	1-2
	1.1.3 Dividend Decisions	K1 – K2	1	1-2
	1.2 Objectives of the Firm			
	1.2.1 Profit Maximisation	K1 – K2	1	1-2
	1.2.2 Wealth Maximisation	K1 – K2	1	1-2
	1.3 Significance of Financial Management	K1 – K2	1	1-2

UNIT	CONTENT	CL	HRS	CO
	1.4 Meaning and Significance of Time Value of Money in Financial Decisions			
	1.4.1 Computation of Time Value of Money	K1 – K5	1	1-5
	1.4.2 Compounding Techniques	K1 – K5	1	1-5
	1.4.3 Present Value Techniques	K1 – K5	2	1-5
2	Measurement of Cost of Capital			
	2.1 Meaning and Significance	K1 – K2	2	1-2
	2.2 Cost of Debt and Preference - Redeemable and Irredeemable	K1 – K5	3	1-5
	2.3 Cost of Equity and Retained Earnings	K1 – K5	3	1-5
	2.4 Computation of Overall Cost of Capital - Book Value and Market Value	K1 – K5	4	1-5
3	Capital Structure			
	3.1 Meaning, Significance and Determinants of Capital Structure	K1 – K5	3	1-5
	3.2 Theories of Capital Structure – Net Income Approach, Net Operating Income Approach, Traditional Approach, Modigliani & Miller Approach (Theory)	K1 – K5	4	1-5
	3.3 Leverage – Operating, Financial and Combined Leverage	K1 – K5	6	1-5
4	Capital Budgeting			
	4.1 Nature of Capital Budgeting	K1 – K2	2	1-2
	4.2 Evaluating Techniques - Pay Back Period, Average Rate of Return, Net Present Value, Internal Rate of Return and Profitability Index	K1 – K5	13	1-5
5	Working Capital Management			
	5.1 Need for Working Capital Management	K1 – K2	2	1-2
	5.2 Determinants of Working Capital Management	K1 – K5	3	1-5
	5.3 Computation of Working Capital Requirements	K1 – K5	10	1-5

BOOKS FOR STUDY

S. S. Khanka., Entrepreneurial Development, S. Chand Limited, 2006

Khan, M.Y. and P.K. Jain. Basic Financial Management. New Delhi: Tata McGrawHil, 2017

Pandey, I. M. Financial Management. New Delhi: Vikas Publication House, 2016

BOOKS FOR REFERENCE

Chandra, Prasanna. Fundamentals of Financial Management. New Delhi: Tata McGraw Hill, 2020
Van Horne, James C. Financial Management and Policy. New Delhi: Prentice Hall of India, 2012
Kalra, Ashish. Financial Management. New Delhi: IGP, 2017
Maheshwari, S. N. Financial Management. New Delhi: Vikas Publication House, 2018
Ravi M. Kishore. Taxmann's Financial Management, New Delhi: K.L. Taxmann, 8th edition, 2020

JOURNALS

Journal on Risk and Financial Management
Indian Journal of Finance
Finance India

WEB RESOURCES

www.indianjournaloffinance.co.in
www.financeindia
www.emeraldinsight.com

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (no Choice - 1 Theory and 2 Problems)
B	K2	10	$2 \times 5 = 10$ (from a choice of three questions-1 Theory and 2 Problems)
C	K3, K4	20	$2 \times 10 = 20$ (internal choice for one K3 question and one K4 question-only Problems)
D	K5	14	$1 \times 14 = 14$ (out of 2 questions-only Problems)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (No Choice- 2 Theory and 3 Problems)
B	K2	20	$4 \times 5 = 20$ (out of 6 questions- 2 Theory and 4 Problems)
C	K3, K4	40	$4 \times 10 = 40$ (internal choice between two K3 questions and two K4 questions-only Problems)
D	K5	30	$2 \times 15 = 30$ (out of 3 questions-only Problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/IF44												
IV	Course Title: Introduction to Financial Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	3	2	3	3	2	3	2
CO 2	3	3	3	1	3	2	3	2	3	3	3	2	2
CO 3	3	3	3	1	3	3	3	3	3	3	3	3	2
CO 4	3	3	3	1	3	3	2	2	3	3	3	3	2
CO 5	3	2	3	1	3	3	3	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI — 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

SERVICE MARKETING

CODE: 23BA/MC/SM44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with key concepts of service marketing
- To expose about the models and frameworks used in service marketing
- To instruct the students on scenarios pertaining to service marketing strategies
- To provide significance of customer experience and relationship management in service marketing
- To familiarize on the effective marketing strategies tailored to specific service industries

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Define key terms used in service marketing	K1
CO2	Explain the elements of marketing mix in service marketing	K2
CO3	Relate the unique marketing strategies in service marketing	K3
CO4	Analyze the impact of service quality and customer engagement in real situation	K4
CO5	Evaluate the strategies of marketing mix with specific service industries	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Service Marketing			
	1.1 Introduction - Growth of the service sector - The Concept of Service	K1-K2	2	1-2
	1.2 Characteristics of Service: Intangibility, Inseparability, Inconsistency, Inventory	K1-K4	3	1-4
	1.3 Classification of Service: Consumer vs Industrial	K1-K3	2	1-3
	1.4 Designing of the Service, Blueprinting, Using Technology, Developing Human Resources, Building Service Aspirations	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
2	Marketing Mix in Service Marketing			
	2.1 Product Decision	K1-K3	2	1-3
	2.2 Service Pricing- Strategies and Tactics,	K1-K3	4	1-3
	2.3 Promotion of Service	K1-K3	4	1-3
	2.4 Placing of Distribution Methods for Services	K1-K3	2	1-3
	2.5 Additional Dimension in Services Marketing – People, Physical Evidence and Process	K1-K3	3	1-3
3	Effective Management of Service Marketing			
	3.1 Marketing Demand and Supply through Capacity Planning and Segmentation	K1-K3	6	1-3
	3.2 Internal Marketing of Services	K1-K3	4	1-3
	3.3 External versus Internal Orientation of Service Strategy	K1-K3	5	1-3
4	Service Quality and Customer Satisfaction			
	4.1 Monitoring and Measuring Customer Satisfaction	K1-K4	4	1-4
	4.2 Concepts and Importance of Quality in Services	K1-K4	5	1-4
	4.3 Service Quality Models: Parasram – Zethamal Biter Gaps Model, SERVQUAL, SERVPERF Gronos Model	K1-K5	6	1-5
5	Characteristics and Cases in Service Marketing to Specific Industries			
	5.1 Financial Services – Insurance and Banking	K1-K5	2	1-5
	5.2 Health Service – Hospitals	K1-K5	2	1-5
	5.3 Hospitality Services - travel, hotels and tourism	K1-K5	2	1-5
	5.4 Professional Service - Public Utility Services	K1-K5	2	1-5
	5.5 Educational Services – Government and Private Institutions	K1-K5	2	1-5

BOOKS FOR STUDY

Balaji B Service Marketing and Management S.Chand Publication, 2015

Shajahan S Service Marketing Concept, Practices and Cases .Mumbai: Himalaya, 2016

BOOKS FOR REFERENCE

Jan Van Bon IT Service Management Van Haren Publication

Norman Richard Service Management Wiley

Valarie A.et al, Service Marketing Seventh edition, McGraw Hill 2018

Sinha, P.K Sahoo S.C Service Marketing Text and Reading Mumbai: Himalaya 2012

JOURNALS

International Journal of Research in Marketing
Journal of Service Marketing
Journal of Professional Service Marketing

WEB RESOURCES

<http://www.managementstudyguide.com/>
<http://blog.clientheartbeat.com/>
<http://www.scribd.com>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3, K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/SM44												
IV	Course Title: Service Marketing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	1	1	3	2	2	2	1
CO 2	3	3	3	2	2	2	1	1	3	2	2	2	1
CO 3	3	3	3	2	2	2	1	1	3	2	3	2	1
CO 4	2	2	2	3	2	2	2	2	2	2	3	2	1
CO 5	2	2	2	2	2	2	1	1	2	2	2	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023 – 2024)

RESEARCH METHODOLOGY

CODE: 23BA/MC/RM43

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To acquire basic knowledge about the research and its types
- To enable the students know research process and techniques of conducting research
- To orient the students with the techniques of data collection, analysis of data and interpretation
- To familiarise the students about report writing and presentation
- To provide a comprehensive and transparent account of the research

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define basic concepts and terms used in Research Methodology	K1
CO2	understand the principles, process and techniques in Research	K2
CO3	solve research problems and give suitable recommendation	K3
CO4	examine the ability to choose appropriate methods to research objectives	K4
CO5	assess skills in qualitative and quantitative data analysis and presentation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Research – Meaning – Definition – Characteristics – Objectives - Types	K1 – K2	2	1-2
	1.2 Research Methodology - Meaning – Definition – Importance – Structure	K1 – K5	2	1-5
	1.3 Ethics in research - Scope of Research in Business and Commerce – Ethical principles in Research	K1 – K5	3	1-5
	1.4 Types of Research Methods - Research Process – Research Problem – Identification of Research Problem	K1 – K5	3	1-5
2	Literature Review and Research Design			
	2.1 Literature Review			
	2.1.1 Meaning – Objectives – Purpose	K1 – K2	1	1-2

UNIT	CONTENT	CL	HRS	CO
	2.1.2 Different Types of Literature Review - Process of Literature Review	K1 – K5	2	1-5
	2.1.3 Identification of Research Gap	K1 – K5	1	1-5
	2.1.4 Formulation of Hypothesis	KI – K5	1	1-5
	2.2 Research Design			
	2.2.1 Meaning – Characteristics – Importance	KI – K2	1	1-2
	2.2.2 Classification of Research Design – Descriptive, Experimental and Exploratory	K1 – K5	2	1-5
	2.2.3 Types of Variables – Dependent, Independent, Discrete and Continuous	K1 – K5	2	1-5
3	Sampling and Data Collection			
	3.1 Sources of Data			
	3.1.1 Primary Data – Observation, Interview, Questionnaire, Schedule, Case Study	KI – K5	3	1-5
	3.1.2 Secondary Data – Sources, Collection, Organisation and Evaluation	K1 – K5	2	1-5
	3.2 Sampling			
	3.2.1 Meaning, Importance of Sample Size	K1 – K2	2	1-2
	3.2.2 Techniques -Probability and Non-Probability Sampling	K1 – K5	3	1-5
4	3.2.3 Sampling and non-sampling errors- Meaning and Types	K1 – K5	2	1-5
	Data Analysis and Interpretation			
	4.1 Meaning, Importance, Factors Influencing Data Analysis	K1 – K5	3	1-5
	4.2 Methods of Data Processing – Editing, Coding, Classification, Tabulation, Pictorial and Graphical Representation	K1 – K5	4	1-5
5	4.3 Interpretation of the Outputs	K1 – K5	3	1-5
	Report Writing			
	5.1 Research Reports – Meaning, Importance, Content	K1 – K5	3	1-5
	5.2 Layout of the Research Report	K1 – K5	4	1-5
	5.3 Types of Report Writing	K1 – K5	3	1-5

BOOKS FOR STUDY

Kothari, C.R. Research Methodology- Methods and Techniques, New Delhi: New Age International Publishers, 2019

BOOKS FOR REFERENCE

Gupta, Santhosh, Research Methodology and Statistical Techniques, New Delhi: Deep and Deep Publications, 2010

Sancheti, D.C. and Kapoor V.K, Statistics, New Delhi: Sultan Chan and Sons , 2008

Singh, Y.K. Bajpai Rb , Research Methodology, New Delhi: Aph Publishing Corporation, 2018

Taylor, B. Research Methodology, New Delhi: Prentice Hall India Pvt Ltd , 2007

JOURNALS

Journal of Indian Business research

Asia Pacific Journal of management research and innovation

WEB RESOURCES

www.emeraldgroupublishing.com

www.spss-tutorials.com

www.sps

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 = 10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 = 20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:

Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3, K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/RM43												
IV	Course Title: Research Methodology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	2	3	3	3	3	3	2	3	3
CO 2	3	2	3	1	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	1	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	1	3	3	3	3	3	3	2	3	3
CO 5	3	3	3	1	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

QUANTITATIVE TECHNIQUES FOR MANAGERS

CODE: 23BA/AC/QT45

CREDITS: 5

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to the concepts of operations research
- To acquaint students to arrive at optimal solutions to projects
- To equip the concepts of Linear Programming Problem and Graphical method
- To familiarise different methods in solving transportation and assignment problems
- To provide knowledge on the significance of Game theory and Network Analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the concepts of operations research and its significance in business	K1
CO2	explain the practical applications of operations research	K2
CO3	relate the operations research techniques of testing optimal solutions	K3
CO4	analyze on the various operational research techniques in decision making	K4
CO5	evaluate appropriate quantitative techniques for execution of projects	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.3 Introduction to Operations Research – Definition – Nature – Scope –Significance	K1-K2	3	1-2
	1.4 Linear programming problem – Mathematical formulation of linear programming problem	K1-K5	6	1-5
	1.5 Linear programming problem by graphical method - Simplex method – Simple problems	K1-K5	6	1-5
2	Transportation Problem			
	2.1 Transportation problems – Formulation and Balance check of a Transportation Problem	K1-K5	5	1-5
	2.2 Attaining initial basic feasible solution using North / West Corner Rule, Least Cost Method and Vogel's Approximation Method	K1-K5	5	1-5

UNIT	CONTENT	CL	HRS	CO
	2.3 Feasible Optimal solution – Modi Method - Simple balanced problems and Unbalanced problems on the above method without degeneracy	K1-K5	5	1-5
3	Assignment Problem and Sequencing			
	3.1 Assignment Problem: Hungarian Method, Special cases: Multiple Solutions, Maximization case, Unbalanced case	K1-K5	7	1-5
	3.2 Sequencing problem – Johnson’s rule for n jobs – 2 machines, n job 3 machines problems	K1-K5	5	1-5
4	Game theory			
	4.1 Game theory – concept of pure and mixed strategies – value of games	K1-K5	3	1-5
	4.2 Solving 2 person zero sum games with saddle point	K1-K5	3	1-5
	4.3 Solving 2X2 games without saddle point -dominance principle	K1-K5	4	1-5
5	Network Analysis			
	5.1 Meaning, Objectives and Applications	K1-K2	3	1-2
	5.2 Network analysis: Concepts of CPM & PERT	K1-K5	3	1-5
	5.3 CPM – Network Diagram and Calculation of Floats	K1-K5	4	1-5
	5.4 PERT - Calculation of Expected Duration and Variance	K1-K5	3	1-5

BOOKS FOR STUDY

N P Agarwal and Sonia Agarwal, Operations Research and Quantitative techniques, R B S A Publishers, 2009
Anand Sharma, Operations Research, Himalaya Publication House, 2019

BOOKS FOR REFERENCE

Kanti Swarup, PK Gupta & Man Mohan, Operation Research, Jain Book Agency, 2014
PK Gupta and SK Gupta, Operation Techniques and Operation Research, Sultan Chand and Sons, 2014
V.K Kapoor, Operation Research: Quantitative Techniques and Management, Sultan Chand and Sons, 2013

JOURNALS

Institute for Operations Research and the Management Sciences
European Journal of Operational Research
Journal of the Operational Research Society
Management Science

WEB RESOURCES

<https://www.informs.org/>

<https://orc.mit.edu/>

<https://www.linkedin.com/learning/browse/business>

<https://www.britannica.com/topic/operations-research>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 x 2 = 6 (no Choice - 1 Theory and 2 Problems)
B	K2	10	2 x 5 = 10 (from a choice of three questions-1 Theory and 2 Problems)
C	K3, K4	20	2 x 10 = 20 (internal choice for one K3 question and one K4 question-only Problems)
D	K5	14	1 x 14 = 14 (out of 2 questions-only Problems)

Other Components:

Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice- 2 Theory and 3 Problems)
B	K2	20	4 × 5 = 20 (out of 6 questions- 2 Theory and 4 Problems)
C	K3, K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-only Problems)
D	K5	30	2 × 15 = 30 (out of 3 questions-only Problems)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BA/AC/QT45												
IV	Course Title: Quantitative Techniques for Managers												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	1	1	2	1	3	2	1
CO 2	3	3	3	2	2	2	1	1	2	1	3	2	1
CO 3	3	3	3	2	2	2	1	1	2	1	3	2	1
CO 4	2	2	2	2	2	2	2	2	2	1	3	2	1
CO 5	2	2	2	2	2	2	1	1	2	1	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS ANALYTICS FOR DECISION MAKING

CODE: 23BA/MC/BA54

CREDITS: 4

L T P: 0 1 4

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide knowledge about R programme and its operations, representing data diagrammatically and graphically using Ms-Excel
- To educate students to compute absolute and relative measures of central tendency and dispersion, correlation and regression analysis using Ms-Excel and R Programme
- To expose and introduce PivotTables, Macros and Hyperlinks, logical, lookup, reference, and statistical functions
- To acquaint students to interpret results from multiple worksheets
- To compute functions and productivity tools using Ms-Excel and R Programme

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define Excel spreadsheets to perform a variety of data analysis tasks	K1
CO2	explain the numerical data by using statistical tools and functions used in Excel	K2
CO3	demonstrate skills and knowledge using data analysts used in R programme	K3
CO4	analyse the data using various data visualization techniques including, charts, plots etc	K4
CO5	evaluate statistical analysis and predictive models using R	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Understanding Ms-Excel			
	1.1 Introduction to Excel, The Excel Environment	K1-K2	4	1-2
	1.2 Creating Worksheets and Workbooks, Formatting Cells; Selecting Cells, Entering Text and Numeric Data into the Cells	K1-K5	4	1-5
	1.3 Applying Fonts and Background Colour, Aligning Data, Merging Cells, Text Wrapping, Number Formatting – Text, Percentage, Currency, Dates. Creating Series	K1-K5	3	1-5
	1.4 Resizing Columns Width and Rows Height. Excel Shortcuts	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
2	Formulas and Functions			
	2.1 Sum if, Sum ifs, Count if, Count ifs functions, V look up, H look up, Logical Functions, Text Functions	K1-K5	4	1-5
	2.2 Index, Match functions and its applications	K1-K4	4	1-4
	2.3 MS-Excel-Entering data and Selecting Cells- Formatting Cells- Advanced Conditional Formatting-Advanced Data Validation-protecting and un-protecting workbook	K1-K5	5	1-5
	Data Visualization by Using Excel			
	3.1 Charts-Chart elements- Clustered Column-Stacked column- Stacked percentage charts-Line, Column, Win/Loss Sparkline Charts	K1-K5	5	1-5
3	3.2 Introduction to Pivot Tables- Creating Pivot Tables and Pivot Charts, manipulating a PivotTable, Changing Calculated Value Fields, Applying PivotTable Styles, creating a PivotChart, Setting PivotTable Options	K1-K5	5	1-5
	R Programming			
	4.1 Basics of R, Installation of R studio, Vectors, Matrices, Data types, importing files, writing files, Merging Files	K1-K5	4	1-5
4	4.2 Data Manipulation, Creation and Deletion of New Variables	K1-K5	4	1-5
	4.3 Sorting of Data, Sub-setting of Vector, Matrix, Data Frame	K1-K5	4	1-5
	Conditional Statement			
	5.1 Loop, Functions with R: Creation of function, Global Variable, Local Variables, Scatter Plot	K1-K5	5	1-5
5	5.2 Histogram, Bar Plot, Box Plot, Plot function and its arguments, Basic Data Manipulation Techniques	K1-K5	5	1-5
	5.3 Usage of various apply functions – apply, lapply, sapply and tapply	K1-K5	5	1-5

BOOKS FOR STUDY

LokeshLalwani., Excel 2019 All- in-one, Master the new features of Excel 2019/Office 365, BPB Publications, New Delhi, 2019
 Manisha Nigam., Data Analysis with Excel, BPB Publications, New Delhi, 2019
 Paul McFedries- MOS 2019 Study Guide, Microsoft Excel Expert, Exam No.201 Microsoft Press Store publications, 2020

BOOKS FOR REFERENCE

Paul McFedries- Microsoft Excel 2019 Formulas and Functions (Business Skills), Microsoft Press publications - April 2019
 Richard Kusleika & John Walkenbach, Microsoft Excel 2019 Bible, the Comprehensive Tutorial Resource, Wiley Publishers – Dec 2018
 Wayne L. Winston- Microsoft Excel 2019 Data Analysis and Business Modelling, Sixth Edition. Microsoft Press Publications – Dec 2019

JOURNAL

Science Direct
Academe Research Journals
Academia Scholarly Journals (ASJ)

WEB RESOURCES

<https://www.udemy.com/course/>
<https://www.safalta.com/careers/microsoft-excel-vs-r-for-statistical-analysis>

PATTERN OF ASSESSMENT

Continuous Assessment: **Total Marks: 50** **Duration: 90 minutes**
(15 mins – theory and 75 mins - Practical)

Section		Cognitive Level	Marks	Pattern
Theory	A	K1-K2	10	$10 \times 1 = 10$ (Objective Questions)
Practical	B	K3-K5	25	$5 \times 5 = 25$ (out of 7 questions)
	C	K3-K5	15	$1 \times 15 = 15$ (out of 2 questions)

Other Components: **Total Marks: 50**
Assignments/ Practical test /Group project etc.

End-Semester Examination: **Total Marks: 100** **Duration: 3 Hours**
(30 mins – Theory and 150 mins - Practical)

Section		Cognitive Level	Marks	Pattern
Theory	A	K1-K2	20	$20 \times 1 = 20$ (Objective Questions)
Practical	B	K3-K5	35	$7 \times 5 = 35$ (out of 9 questions)
	C	K3-K5	45	$3 \times 15 = 45$ (out of 4 questions)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BA/MC/BA54												
V	Course Title: Business Analytics for Decision Making												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	3	3	2	2	2	2	2	3	2
CO 2	3	3	2	1	2	2	3	2	2	2	3	3	2
CO 3	3	2	3	1	3	3	3	3	3	2	3	3	3
CO 4	3	3	3	1	2	2	3	3	2	3	3	2	3
CO 5	2	3	3	1	3	3	3	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

BUSINESS TAXATION

CODE: 23BA/MC/BT54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide the students with the concepts in Direct and Indirect Taxation law
- To comprehend the provisions of Customs Act
- To apply the provisions of law and compute the taxable business income of an assessee
- To infer tax liability based on residential status
- To provide an insight on GST levy and collection

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the conceptual framework of the discipline of taxation in India	K1
CO2	identify the importance of the procedures of taxation	K2
CO3	apply the provisions to assess of incomes of business organisations	K3
CO4	analyse the deductions, concessions and exemptions in the process of tax levy and collection.	K4
CO5	evaluate the scope and challenges in compliance of tax	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Tax System In India			
	1.1 Taxation – Meaning, Objectives, Features and Canons	K1-K5	2	1-5
	1.2 Tax System in India- Union List, State List & Concurrent List	K1-K3	2	1-3
	1.3 Direct and Indirect Taxes – Meaning and Features	K1-K5	4	1-5
	1.4 CESS Types- Difference between Tax and CESS	K1-K3	2	1-3
2	Income Tax Law			
	2.1 Basic Concepts in Income Tax- Person, Assessee, Previous Year, Assessment Year, Income, Agricultural Income, Exempted Income, Residential Status of an Assessee, Fringe benefit Tax, Tax deducted at Source	K1-K3	2	1-3

UNIT	CONTENT	CL	HRS	CO
	2.2 Income under Five heads and Tax Rates	K1-K5	3	1-5
	2.3 Determination of Residential Status (Problems)	K1-K4	6	1-4
	2.4 Incidence of Tax (Problems)	K1-K4	4	1-4
3	Income under the Head `Profits and Gains from Business and Profession			
	3.1 Definitions, Deductions expressly allowed and Disallowed, Expenses deductible on actual payment basis	K1-K5	3	1-5
	3.2 Computation of Profits and Gains of Business and Professional Income (Problems)	K1-K4	7	1-4
	3.3 Depreciation u/s 32 (Simple Problems)	K1-K2	5	1-2
4	Goods and Service Tax			
	4.1 Meaning, Features and Scope of GST, Framework of GST in India – Concept of CGST, SGST, UTGST, IGST	K1-K5	4	1-5
	4.2 Rates of GST, Exemptions in GST and Registration	K1-K5	3	1-5
	4.3 Levy and Collection of GST, Concept of Supply – Mixed and Composite	K1-K5	3	1-5
	4.4 Computation of GST Liability - Place of Supply – Time and Value of Supply – Input Tax Credit (Problems)	K1-K4	5	1-5
5	Customs Law			
	5.1 Meaning, Features and Types of Custom Duty	K1-K5	3	1-5
	5.2 Customs Act, 1962, Applicability of Custom Duty on imported goods	K1-K5	3	1-5
	5.2 Infringement of the law – offences and penalties – Exemption from duty – customs duty drawback – duties free zones	K1-K5	4	1-5

BOOKS FOR STUDY

Balachandran, V. Indirect Taxes. New Delhi: Sultan Chand

Gaur, V.P. and D.B Narang. Income Tax Law and Practice. Kalyani Publishers

BOOKS FOR REFERENCE

Dr. Girish Ahuja and Dr. Ravi Gupta – Practical Approach to Direct & Indirect Taxes, 37th Edition, Wolter's Kluwer

Mehrothra, H.C. Income Tax Law and Practice. Sahitya Bhawan 59th Edition,

Singhania, Vinod K. Student's Guide To Income Tax. Taxmann, 59th Edition,

T.S. Reddy & Y.Hariprasad , Business Taxation. Margham,

The Customs Act, 1962 BARE ACT, Commercial Law publishers (India) Pvt.Ltd.Delhi, 2019

NOTE: Latest edition of Books to be used

JOURNALS

Excise Law Times (Fortnightly Reporting Journal)
Excise and Customs Cases (Fortnightly Reporting Journal)
Excise and Customs Reporters (Fortnightly Reporting Journal)
Direct Taxes Report Journal

WEB RESOURCES

<https://cleartax.in/s/income-tax>
<https://incometaxindia.gov.in/pages/tools/income-tax-calculator.aspx>
<https://www.taxmann.com/research/gst>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (no Choice – only Theory)
B	K2	10	$2 \times 5 = 10$ (from a choice of three questions-2 Theory and 1 Problem)
C	K3, K4	20	$2 \times 10 = 20$ (internal choice for one K3 question and one K4 question-1 Theory and 1 Problem)
D	K5	14	$1 \times 14 = 14$ (out of 2 questions- only Theory)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Scheduled Class Work – Passage Analysis etc. / Quiz / Panel Discussion / Group Presentation

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (No Choice- only Theory)
B	K2	20	$4 \times 5 = 20$ (out of 6 questions- 4 Theory and 2 Problems)
C	K3, K4	40	$4 \times 10 = 40$ (internal choice between two K3 questions and two K4 questions- 2 Theory and 2 Problems)
D	K5	30	$2 \times 15 = 30$ (out of 3 questions-only Theory)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/BT54												
V	Course Title: Business Taxation												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	2	1	1	1	3	2	2	1	1
CO 2	3	3	1	3	2	1	2	2	3	3	2	2	2
CO 3	3	3	1	3	2	2	2	2	3	3	2	2	2
CO 4	3	3	3	3	3	3	3	3	2	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023 – 2024)

BUSINESS COMMUNICATION AND ETIQUETTES

CODE: 23BA/MC/BE53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enhance students with the art of professional writing and verbal communication skills
- To expose various communication channels and technologies used in business
- To equip students with the ability to create and deliver compelling business presentations
- To introduce the key concepts of business etiquette
- To provide the tools and confidence needed to excel in job interviews

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall fundamental concepts of effective communication, presentation skills and etiquette practices	K1
CO2	explain the significance of verbal and non-verbal communication cues and their impact on interpersonal interactions	K2
CO3	apply principles of effective communication to compose clear, concise business documents and presentations	K3
CO4	evaluate various business communication materials, presentation techniques and etiquette principles for maintaining professionalism	K4
CO5	critically assess the impact of business etiquette and communication on professional relationships	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Business Communication			
	1.1 Business Communication - Meaning – Definition Importance	K1-K4	2	1-4
	1.2 Types and channels of business communication – Principles - Barriers to effective communication - Key factors for effective communication	K1-K5	6	1-5
	1.3 Non-Verbal Communication	K1-K5	2	1-5
2	Business Correspondence and Documents			
	2.1 Meaning of Correspondence – Types – Purposes and Use of Business Correspondence	K1-K5	4	1-5
	2.2 Letters – Parts of a Business Letter , Layout and Types	K1-K5	5	1-5

UNIT	CONTENT	CL	HRS	CO
	2.3 Emails, Memorandums (Memos), Proposals, Business Cards, Brochures and Flyers, Meeting Agendas and Minutes, Press Releases, Company Newsletters, Reports – Guidelines	K1-K5	5	1-5
3	Oral Communication and Presentation Skills			
	3.1 Oral communication –Meaning, Principles, Purpose, Types of oral communication, Advantages & Conversation Pitfalls	K1-K5	4	1-5
	3.2 Meaning of Presentation skills and Ways to improve the Presentation Skills	K1-K5	2	1-5
	3.3 Thumb rule in making Presentation 3.3.1 10-20-30 Rule 3.3.2 6X6 Rule	K1-K5	2	1-5
4	Essentials of Etiquette			
	4.1 Etiquette – Meaning, Definition, Need for Etiquette in today's world	K1-K5	2	1-5
	4.2 Classifications of Etiquette – Social Etiquette, Business Etiquette, Clothing Etiquette, Dining Etiquette, Communication Etiquette, Netiquette, Event Etiquette, Meeting Etiquette, Telephone Etiquette – Do's and Don'ts	K1-K5	5	1-5
	4.3 Business Etiquette – Definition, Basic Principles, Importance	K1-K5	3	1-5
5	Interview Etiquette and Interpersonal Skills			
	5.1 Types of Interview, Codes of Conduct for Interview	K1-K5	3	1-5
	5.2 Preparation of Resume and Group Discussion	K1-K5	3	1-5
	5.3 Tips to build strong interpersonal relationship at Workplace	K1-K5	2	1-5
	5.4 Significance of interpersonal relationships in professional life	K1-K5	2	1-5

BOOKS FOR STUDY

Virander K. Jain., Business Communication, S. Chand Limited, 2008
 Thill, J. V., & Bovee, C. L., Excellence in Business Communication. Pearson, 2020
 Shital Kakkar Mehra., Business Eitquette, HarperCollins Publishers India, 2012
 Raghu Palat., Indian Business Etiquette. Jaico Publishing House, 2013

BOOKS FOR REFERENCE

Locker, K. O., & Kaczmarek, S. K., Business Communication: Building Critical Skills. McGraw-Hill Education, 2016
 Murphy, H. A., Hildebrandt, H. W., & Thomas, J. P., Effective Business Communications. McGraw-Hill, 7th edition
 Pachter, B., & Whitmore, C., The Essentials of Business Etiquette: How to Greet, Eat, and Tweet Your Way to Success. McGraw-Hill Education, 2013

JOURNALS

International Journal of Business Communication
 Harvard Business Review

WEB RESOURCES

www.businessetiquettetraining.com

<https://www.inc.com>

<https://hbswk.hbs.edu>

<https://emilypost.com>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 = 10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 = 20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BA/MC/BE53												
V	Course Title: Business Communication and Etiquettes												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	2	2	1	2	2	1	2	1	1
CO 2	2	3	2	3	2	2	2	2	3	1	3	1	2
CO 3	2	3	3	3	2	2	1	2	2	1	2	1	1
CO 4	2	2	2	2	1	3	1	1	2	1	2	1	1
CO 5	2	2	1	3	2	2	1	2	2	1	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

ETHICS AND CORPORATE GOVERNANCE

CODE: 23BA/MC/EG53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To equip students with the ability to critically evaluate ethical dilemmas and make principled decisions in a business context
- To provide insights on the importance of transparency and accountability in business operations
- To enable the students to be aware of various forms unethical practices in business
- To sensitize the students about ethical and unethical choices in business decisions
- To provide the students with the knowledge about Sustainability and Corporate Governance

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamental ethical values, morals and principles and its importance in business	K1
CO2	explain the need for ethical behavior, governance and responsibility in various business functions while considering its philosophical approaches and theories	K2
CO3	apply social responsibility and governance practices and also the disclosure of wrongdoing in various business functions	K3
CO4	examine the main types of ethical & responsibility violations and the consequences of their influence on business practice, the economy, and society in general	K4
CO5	critically evaluate the ethical, governance, and sustainability practices of an organisation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Understanding Business Ethics			
	1.1 Defining Business Ethics Difference between Ethics and Morals, Relationship of Ethics and Law	K1-K5	4	1-5
	1.2 Ethical Dilemmas – Meaning, Features and Schools of Thought of Business Ethics	K1-K5	4	1-5
	1.3 Need and Importance of Business Ethics	K1-K5	2	1-5
2	Ethics in Various Business Functions			
	2.1 Ethics in Marketing – Product, Pricing and Advertising	K1-K5	4	1-5
	2.2 Ethics in Finance – Information, Insider Trading, Hostile Takeover	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
	2.3 Ethics in Human Resources – Compliances, Salary Planning, Employee equality, Employee Privacy, Nepotism	K1-K5	4	1-5
	2.4 Whistle blowing – Meaning and Importance	K1-K5	2	1-5
3	Corporate Social Responsibility			
	3.1 Philanthropy and its Relevance in Business	K1-K4	3	1-4
	3.2 Need and Importance of CSR	K1-K5	3	1-5
	3.3 CSR in India - CSR Under Section 135 of Companies Act 2013	K2-K5	4	2-5
4	Corporate Governance			
	4.1 Meaning and Principles of Corporate Governance	K1-K5	2	1-5
	4.2 Need and Importance of Corporate Governance	K1-K5	2	1-5
	4.3 Corporate Governance in India: Birla Committee, Clause No. 49	K2-K5	6	2-5
5	Recent Practices Enhancing Ethics, Corporate Social Responsibility and Governance			
	5.1 Vigilance practices, Right to Information Act – Salient Features	K1-K5	4	1-5
	5.2 Case Studies – Consumer Protection Act	K2-K5	2	2-5
	5.3 Case Studies on Ethics, CSR and Corporate Governance	K2-K5	3	2-5

BOOKS FOR STUDY

Zabihollah Rezaee., Business Sustainability, Corporate Governance, and Organizational Ethics, Wiley, 2019

Andrew Crane Dirk Matten. Business Ethics. New Delhi: Oxford University Press, 2019

Chandra Kumar Roy, Prabhat Kumar Roy., Business Ethics, Vikas Publishing House, 2015

Ananda Das Gupta., Business Ethics, Springer India, 2016

Sharma, J. P. Corporate Governance Business Ethics & CSR. Ane Books Pvt. Ltd, 2019

Joan R. Boatright., Ethics and the Conduct of Business.7th edition. Pearson, 2013

BOOKS FOR REFERENCE

Intan Marzita Saidon, Roshima Said., Ethics, Governance and Risk Management in Organizations, Springer Nature Singapore, 2020

Fernando, A.C., Business Ethics and Corporate Governance. Pearson Education, 2010

Christine, A Mallin. Corporate Governance (Indian Edition). New Delhi: Oxford University Press, 2016

Geeta Rani, D & R K Mishra. Corporate Governance-Theory and Practice. New Delhi: Excel, 2009

JOURNALS

Journal of Business Ethics

Business Ethics Quarterly (BEQ)

Journal of Sustainable Finance & Investment

WEB RESOURCES

<https://unglobalcompact.org>

<https://businessethicsblog.com>

<https://www.ethics.org>

<https://www.loc.gov>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/EG53												
V	Course Title: Ethics and Corporate Governance												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	2	1	2	3	2	3	2	2	1	2
CO 2	3	3	2	2	1	3	3	1	3	2	3	1	3
CO 3	2	3	3	2	1	3	3	1	2	1	3	2	3
CO 4	2	2	2	2	-	2	2	1	2	1	2	2	2
CO 5	2	2	1	2	-	3	3	1	2	2	3	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by Bachelor of Business Administration and
Bachelor of Social Work for B.S.W. and B.B.A. DEGREE Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO SOCIAL ENTERPRISES MANAGEMENT

CODE: 23ID/IC/SE55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide students with an overview on Social Enterprise as a major sector
- To orient students with case studies on Successful Social Enterprises
- To sensitize students on the need assessments frameworks
- To help students understand the need for administration in Social Enterprises
- To introduce students to the concept on evaluation of the impact created by Social Enterprises

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Identify and describe the types of organizations involved in the Social Enterprise Sector	K1
CO2	Demonstrate the understanding of the Attitude and knowledge required for the creation, management and development of social enterprises	K2
CO3	Analyze the range of strategies suitable for fulfilling needs of the communities/clients to be served/ being targeted	K3
CO4	Evaluate the impact of organizations by using basic concepts in social audit	K4
CO5	Develop ideas on the application of skills required in the creation of social enterprises	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Measuring Social Value			
	1.1 Concept of social value; Need for measuring social value;	K1-K4	3	1-4
	1.2 Methods of measuring social value; Social return on investment;	K1-K4	4	1-4
	1.3 Measuring vulnerability and efficiency of social enterprise;	K1-K4	3	1-4
	1.4 Organizational effectiveness of social enterprise	K1-K4	4	1-4
2	Entrepreneurship and Social Entrepreneurship			
	2.1 Definition, characteristic and types of Entrepreneurships	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
	2.2 Characteristics and Role of a Social Entrepreneur, Difference between entrepreneurship and social entrepreneurship	K1-K5	4	1-5
	2.3 Supporting Agencies: Ashoka, Skoll Foundation, Miller Center for Social Entrepreneurship, National Small industries corporation (NSIC), Small Industries Development Bank of India (SIDBI), National Bank for Agriculture and Rural Development (NABARD)	K1-K5	4	1-5
	2.4 Case studies: Bunker Roy–BARE FOOT COLLEGE, Joseph Nkandu– NUCAFE, Arunachalam Muruganantham – JAYAASHREE INDUSTRIES, G Venkataswamy – ARVIND EYE HOSPITAL, The Self Employment Women’s Association (SEWA) – Ela Bhatt	K1-K5	4	1-5
3	Creation of Social Enterprises			
	3.1 Vision, Mission, Objectives, Board	K1-K5	5	1-5
	3.2 Need Assessment-Baseline Survey, Participatory Project Planning Techniques, PRA, RRA, Logical Frame Work Analysis	K1-K5	6	1-5
	3.3 Development of a Product or Service	K1-K5	5	1-5
4	Management of NGOs			
	4.1 Concept of Volunteerism, Charity, Welfare and Development, Concept of Social Audit	K1-K5	4	1-5
	4.2 National Policy Related to NGO	K1-K5	4	1-5
	4.3 Legal Aspects, Documentation in NGOs	K1-K5	4	1-5
	4.4 Fund Raising and Accounting Practices	K1-K5	4	1-5
5	Ethics And CSR In Social Entrepreneurship			
	5.1 Ethical entrepreneurship: Meaning. Empirical ethics, eternal ethics. Entrepreneur and customer	K1-K5	4	1-5
	5.2 Challenges in Social Entrepreneurship	K1-K5	4	1-5
	5.3 Corporate Social Responsibility- Introduction, Components and Benefits	K1-K5	4	1-5
	5.4 Tracking and reporting of CSR projects - How companies spend their CSR funds	K1-K5	4	1-5

BOOKS FOR STUDY

Paramasivan C, Social Entrepreneurship, New Delhi, UBS Publishers Distributors Pvt Ltd. 2016
 Nicholls, Alex. Social Entrepreneurship, New Models of Sustainable Social Change, Oxford: Oxford University Press, 2011

BOOKS FOR REFERENCE

Ridley-Duff, R. J. and Bull, M. Understanding Social Enterprise: Theory and Practice, London: Sage, 2011
 Bornstein, David. How to Change the World, New York: Penguin Books. 2005
 Bansal, Rashmi, I have a dream, Noida: Westland and Tranquebar Press, 2011
 Yunus, M, Banker to the Poor, USA: Penguin Books, 1999
 Padaki & Manjulika, Management Development in Non-Profit Organisation, New Delhi: Sage. 2005

Chambers, R. The Origins and Practice of Participatory Rural Appraisal, World Bank. UK: Elsevier Science Ltd, 1994
 Crutchfield, R. Leslie and McLeod Heather, Grant, Forces for Good: The Six Practices of High-Impact Nonprofits, USA: HB Printing, 2007
 Kramer.R, Mark. Measuring Innovation: Evaluation in the Field of Social Entrepreneurship, USA: Foundation Strategy Group, 2005

JOURNALS

Journal of Social Entrepreneurship (<http://www.tandfonline.com>)

WEB RESOURCES

<https://www.ashoka.org>
<http://www.skollfoundation.org>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
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B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/SE55												
V	Course Title: INTRODUCTION TO SOCIAL ENTERPRISE MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

PRODUCT AND BRAND MANAGEMENT

CODE: 23BA/MC/PB64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students with management of product/ services throughout their life cycles, including new product development
- To acquaint students with introduction and manage product portfolios brands
- To identify brand and brand strength for any particular market offering
- Apply branding principles and marketing communication concepts
- To develop a consumer-centric approach to building, measuring and evaluating strategies that build brand equity for new and existing brands

COURSE LEARNING OUTCOME

On successful completion of the course students will be able to

COs	DESCRIPTION	CL
CO1	understand the core concepts in product and brand Management	K1
CO2	identify the role and process of brand building in the contemporary business world.	K2
CO3	analyse product and branding strategies to forecast market potential	K3
CO4	integrate various methods of designing Marketing Programs and audit	K4
CO5	critically examine the existing brands and develop insights to build brand	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Product Management			
	1.1 Product Planning and Prelaunch	K1-K2	2	1-2
	1.2 Product Dimensions	K1-K3	2	1-3
	1.3 New Product Management	K1-K3	2	1-3
	1.4 Product Portfolio Analysis and Market Strategies	K1-K4	2	1-4
	1.5 Product Life Cycle Stages and Corresponding Strategies	K1-K4	2	1-4
2	Brand Positioning			
	2.1 Brand Concepts and Strategies	K1-K4	3	1-4
	2.2 Brand Value, Benefits, Functions and Types of Brands	K1-K4	3	1-4
	2.3 Brand Image, Personality and Loyalty	K1-K4	3	1-4
	2.4 Brand Identity – Kepferer Brand Identity Prism Model	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
	2.5 Challenges & Opportunities, Co-branding, Store brands, In-Store Concepts	K1-K5	3	1-5
3	Brand Equity and Extension			
	3.1 Strategic Brand Management Process	K1-K3	2	1-3
	3.2 Brand Attribute Management and Architecture	K1-K4	2	1-4
	3.3 Brand Portfolio Strategy - Making a Brand Strong			
	3.3.1 Brand Equity and Sources	K1-K4	2	1-4
	3.3.2 Aakers Brand Equity Model	K1-K5	3	1-5
	3.4 Brand Leveraging, Brand Extension and Stretching			
	3.4.1 Types of Brand Extension	K1-K4	2	1-4
	3.4.2 Factors Influencing Decision for Extension	K1-K4	2	1-4
	3.5 Re-branding and Re-launching	K1-K4	2	1-4
4	Brand Positioning and Audit			
	4.1 Types of Brand Positioning	K1-K5	4	1-5
	4.2 Brand Differentiation and Identifying Gaps using Perceptual Maps	K1-K4	4	1-4
	4.3 Brand Audit	K1-K3	3	1-3
	4.4 Brand Valuation Components and Types of Valuation	K1-K4	4	1-4
5	Designing Marketing Programs to Build Online Brands			
	5.1 Building and Managing Online Brands – Case Study on Reputed Brands like Amazon, Flipkart, etc	K1-K5	2	1-5
	5.2 Marketing Communication Options	K1-K4	3	1-4
	5.3 Using social media to build Brands	K1-K5	2	1-5
	5.4 Building Brands on E-Commerce Platform – Case Study on Brands	K1-K5	3	1-5

BOOKS FOR STUDY

Keller. L. Kevin & Parameswaran M.G. Strategic Brand Management, New Delhi: Pearson Education India, Nov 2020
Donald R. Lehmann, Russell S. Winer, Product Management, New Delhi: TMH, Jul 2017
Product Management Simplified, by Vibrant Publishers, Callie Daum – Jan 2021

BOOKS FOR REFERENCE

Kotler Philip & Pfoertsch Waldermar, B2B Brand Management, Springer online. Rosenbaum Richard & Percy Larry, Strategic Brand Management, Oxford University Press, 2020
Verma V Harsha, Brand Management: Text and Cases: New Delhi, Excel Books, 2008

JOURNALS

Journal of Brand Management
Journal of Product and Brand
Management Journal of Brand strategy

WEB RESOURCES

<https://www.managementstudyguide.com/brand-management.htm> <https://www.mbaskool.com/>
<http://www.innovationcoach.com>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/MC/PB64												
VI	Course Title: Product and Brand Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	2	2	3	2	2	3	2
CO 2	2	2	3	1	2	2	2	2	3	2	2	3	2
CO 3	3	2	2	1	3	2	3	2	3	3	2	3	3
CO 4	2	3	2	1	3	2	2	2	3	3	3	2	3
CO 5	2	2	2	1	3	2	3	2	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

TOTAL QUALITY MANAGEMENT

CODE: 23BA/MC/TQ63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide insights to the fundamentals of Total Quality Management
- To familiarize students to the Philosophical Contributions in the field of Quality
- To apply the techniques in the process of Quality Control
- To expose students on the various quality systems like ISO and its standards
- To equip the students on the relevance of Total Quality Management in manufacturing and service industry

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the core concepts in Total Quality Management	K1
CO2	explain the elements and significance of Quality	K2
CO3	apply quality philosophies and tools to enhance organizational performance	K3
CO4	analyse the approach of successful organization to facilitate continuous process improvement	K4
CO5	evaluate the current trends in quality management	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Total Quality Management			
	1.1 Meaning of Quality, Quality Control, Quality Assurance	K1-K3	2	1-3
	1.2 Importance and Dimensions of Quality	K1-K5	2	1-5
	1.3 Basic Principles of Total Quality Management	K1-K5	2	1-5
	1.4 Evolution of Total Quality Management	K1-K5	2	1-5
	1.5 TQM and Traditional Management	K1-K3	2	1-3
2	Philosophical Framework to Total Quality Management			
	2.1 Deming's Contributions-Principles, Chain reaction, Deming Wheel, Seven Deadly sins	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
	2.2 Juran's Quality Trilogy and Breakthrough sequence	K1-K5	3	1-5
	2.3 Philip Crosby's Zero Defects	K1-K5	3	1-5
	2.4 Taguchi's Quality Loss Function	K1-K5	2	1-5
3	Tools and Techniques for Quality Management			
	3.1 Quality Control- Old and New Tools	K1-K5	4	1-5
	3.2 Quality Function Deployment- Meaning and Significance	K1-K5	3	1-5
	3.3 Concept of Kaizen and its Applications	K1-K5	3	1-5
4	Benchmarking and Six Sigma			
	4.1 Meaning, Definition and Types of Benchmarking	K1-K5	2	1-5
	4.2 Benchmarking Process- Advantages and Pitfalls	K1-K5	4	1-5
	4.3 Six Sigma –Introduction and Principles	K1-K2	2	1-2
	4.4 Six Sigma Process – An Overview	K1-K5	3	1-5
5	Quality Management Systems			
	5.1 Quality Management Systems- Meaning and Benefits	K1-K3	3	1-3
	5.2 International Standards Organization (ISO) Registration process and Guidelines	K1-K5	4	1-5
	5.3 Environmental Management System (EMS)	K1-K5	3	1-5

BOOKS FOR STUDY

Besterfield H Dale, Total Quality Management, New Delhi: Pearson Education, 2018
James R. Evans and William M. Lindsay, Managing for Quality and Performance Excellence, New Delhi: Cengage, 2020

BOOKS FOR REFERENCE

Kiran D R, Total Quality Management: Key Concepts and Case Studies, New Delhi: B S Publications, 2017
K. Shridhara Bhat, Total Quality Management, New Delhi, Himalaya Publishing House, 2019
Dr. K.C. Arora, Total Quality Management, S.K. Kataria & Sons, 2016
Prof. M. P. Poonia , S. C. Sharma, Total Quality Management, Khanna Publishing, New Delhi, 2018

JOURNALS

The TQM Journal
TQM Journal
International Journal of Quality and Reliability Management
Journal of Quality and Reliability Engineering

WEB RESOURCES

<https://www.sixsigmadaily.com/>
<https://the9000store.com/>
<http://leansixsigmadefinition.com/>
<https://quality-one.com/six-sigma>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BA/MC/TQ63												
VI	Course Title: Total Quality Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	2	1	1	1	3	2	2	1	1
CO 2	3	3	1	3	2	1	2	2	3	3	2	2	2
CO 3	3	3	1	3	2	2	2	2	3	3	2	2	2
CO 4	3	3	3	3	3	3	3	3	2	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

GLOBAL BUSINESS MANAGEMENT

CODE: 23BA/MC/GB63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide a comprehensive understanding of business from a global perspective
- To enable the students to administer the various business functions in a global environment
- To acquaint the students with the cultural differences between countries
- To acquire insights on developments in global practices and its challenges
- To explore the role of international institutions in the promotion of global business

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the the core concepts of global businesses management	K1
CO2	identify the government rules and regulations that affect global business settings	K2
CO3	apply teamwork and collaboration in global business settings	K3
CO4	analyze the impact of globalization on the global business environment and the challenges and opportunities it presents to organizations	K4
CO5	evaluate the negotiation abilities, dispute resolution, and cross-cultural communication in global corporate environments	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Understanding Global Business			
	1.1 Globalization – Meaning and Growth	K1-K2	3	1-2
	1.2 Understanding Cultural Dimensions			
	1.2.1 Hofstede’s Cultural Dimensions	K1-K5	3	1-5
	1.2.2 Trompennar’s Understanding of Cultural Differences	K1-K5	4	1-5
2	International Business – Country’s Perspective and Forms			
	2.1 Porters Model for Understanding Country Competitive Advantage	K1-K5	4	1-5
	2.2 County Risk and Political Risk in International Business	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
	2.3 Various modes of International Business – Meaning, Features , Pros and Cons: Mergers and Acquisitions, Franchising, Licensing ,Wholly Owned Subsidiary	K1-K5	4	1-5
3	Human Resource Management in a Global Perspective			
	3.1 IHRM- Meaning and Organizational Structures	K1-K3	3	1-3
	3.2 Work Diversity	K1-K5	3	1-5
	3.3 Compensation Planning	K1-K5	4	1-5
4	Marketing in A Global Perspective			
	4.1 Product Planning and Customizing	K1-K4	2	1-4
	4.2 Advertising – Localized Adverting and Customer Loyalty to Domestic Products	K1-K5	2	1-5
	4.3 E-Advertising and Online Marketing for Global Reach	K1-K5	3	1-5
	4.4 Establishing International Brand Equity	K1-K5	3	1-5
5	International Financial Environment			
	5.1 International Financial Institutions – An Overview of International Monetary Fund, World Bank and WTO	K1-K5	5	1-5
	5.2 Foreign Exchange Market- Mechanism and Determinants of Exchange Rates	K1-K5	5	1-5

BOOKS FOR STUDY

Charles W L Hill, G Tomas M Hult, International Business- Competing in the Global Marketplace, McGrawHill, 2021
 Keegan W. J. Global Marketing Management. New Delhi: Prentice Hall of India, 2017
 Holton R K, Global Finance , Routledge, USA and Canada, 2012

BOOKS FOR REFERENCE

Helen, Deresky, International Management - Managing Across Borders & Cultures, Pearson Publication, 2017
 Adekola Abel and Sergi S Burno, Global Business Management: A Cross-Cultural Perspective, Ashgate Publisng , UK, 2012
 Peter.J.Drooling and MaronFesting, International HRM ,Cengage Learning Ind(P) Ltd, 2017
 Johansson J.K. Global Marketing.4th edition. New Delhi: Tata, McGraw Hill, 2010

JOURNALS

Journal of International Business Studies
 International Business Review
 Global Business Review

WEB RESOURCES

www.edx.org/learn/international-business
www.businessdictionary.com

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
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Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BA/MC/GB63												
VI	Course Title: Global Business Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	3	1	2	3	2	2	2	2
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CO 3	2	2	3	1	3	3	3	3	2	3	3	1	2
CO 4	3	3	2	2	1	3	2	2	3	1	3	2	2
CO 5	2	3	2	2	2	3	2	2	2	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023 – 2024)

PROJECT

CODE: 23BA/MC/PR64

CREDITS: 4

GUIDELINES FOR PROJECT

Project should be the independent work of the student. Each student will choose a topic of their interest. The student will be assigned to a project guide.

The student can use Quantitative or Qualitative/Descriptive or both methods for their project work.

➤ **Page Limit:**

The project report should be submitted in the prescribed format ranging between 60 pages to 75 pages, typed in font Times New Roman - font size 14 for headings & 12 for contents, with 1.5 line spacing on A4 Size paper.

• The Project Report should include the following,

- Cover Page
- Certification
- Declaration
- Acknowledgement
- Index
- List of Contents
- List of Tables and Charts
- Abstract with keywords

➤ **Chapters in the Report:**

- Chapter 1 - Introduction - to include Background of the study, Company Profile, Objectives, Scope, Conceptual Framework, Limitations of the study
- Chapter 2 – Review of literature (15-20 reviews)
- Chapter 3 – Research Methodology
- Chapter 4 – Data analysis and Interpretation
- Chapter 5 – Findings, Suggestions and Conclusion

- Bibliography must be given in Alphabetical/chronological order and in APA format
- Annexure - Questionnaire

➤ **Submission:**

Each student has to submit two copies of the project.

➤ **Guidelines for Evaluation:**

There will be double valuation for the project report by the project guide (internal examiner) and an external examiner. The student will appear for viva -voce before a panel comprising External Examiner and Internal Examiner.

PATTERN OF ASSESSMENT

Internal Review Rubrics:

Internal Review	Rubrics for Evaluation	Cognitive Level	Marks
Review 1	Chapter 1 - Introduction - to include Background of the study, Company profile Objectives, Scope Conceptual Framework, Limitations of the study	K 1-5	10
Review 2	Chapter 2 – Review of literature (15-20 reviews)	K 1-5	10
Review 3	Chapter 3 – Methodology	K1-5	10
Review 4	Chapter 4 – Data analysis and Interpretation	K 1-5	10
Review 5	Complete Project with Chapter 5 – Findings, Suggestions and Conclusion	K 1-5	10

Continuous Assessment: Total Marks: 50

Evaluation by the Internal Examiner (Project guide)

Rubrics for Evaluation	Cognitive Level	Marks
Internal Review	K1-5	50

End-Semester Examination: Total Marks: 50

Evaluation by the External Examiner

Rubrics for Evaluation	Cognitive Level	Marks
Final Report	K1-5	25
Viva voce	K1-5	25

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

CHANGE MANAGEMENT

CODE: 23BA/ME/CM45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with best practices for tactical change management
- To expose students to the personal and organisational approaches when dealing with change
- To enable the students develop skills for effectively communicating change
- To provide knowledge on planning and managing change
- To adopt resistance handling techniques to achieve desired change

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the core concept of change management	K1
CO2	identify the forces enabling and resisting change in an organization	K2
CO3	apply the various methods of communicating, managing and implementing change	K3
CO4	analyse the skill requirement for handling the change process	K4
CO5	evaluate the outcome with the desired change considering the suggestions and feedback	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Change - Definition, Meaning and Nature of Organization Change	K1-K4	2	1-4
	1.2 Forces of Organizational Change – External and Internal Forces	K1-K5	3	1-5
	1.3 Theoretical Frameworks of Organization Change	K1-K5	5	1-5
2	Process and Communicating Change			
	2.1 Process of Change Management	K1-K3	2	1-3
	2.2 Need for Communicating Change, Factors Involved in Communicating Change	K1-K4	2	1-4
	2.3 Methods and Techniques for Communicating Change	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
	2.4 Role of Top Management in Communicating Change	K1-K5	3	1-5
3	Resistance to Change			
	3.1 Nature of Resistance, Factors Contributing to Resistance	K1-K5	3	1-5
	3.2 The Behavioral Elements, Types of Resistance, Recognizing and Reducing Resistance to Change	K1-K5	4	1-5
	3.3 Suggestions for Managing Resistance to Change	K1-K5	4	1-5
	3.4 Methods of Handling Resistance and Techniques of Managing Resistance	K1-K5	4	1-5
4	Change Agent			
	4.1 Change Agent – Meaning, Types of Change Agent	K1-K4	2	1-4
	4.2 Role and responsibility of Change Agent	K1-K4	2	1-4
	4.3 Competencies of Change Agent			
	4.3.1 Personality Traits of a Change Agent	K1-K5	3	1-5
	4.3.2 Knowledge of a Change Agent	K1-K5	2	1-5
	4.3.3 Skills required for an role of a change Agent	K1-K5	2	1-5
	4.4 Characteristics of successful Change Agent	K1-K5	4	1-5
5	Implementing and Evaluating the Change			
	5.1 Strategies and Procedure to Implement Change	K1-K5	5	1-5
	5.2 Key Factors in Effective Change Management	K1-K5	5	1-5
	5.3 Concept of Monitoring and Evaluation, Methods of Evaluation and Feedback Process	K1-K5	5	1-5

BOOKS FOR STUDY

Radha R Sharma. Change Management and Organisational Transformation. Tata McGraw Hill Education Private Limited; 2nd edition, 2012

Michael Reiss. Change Management-A Balanced and Blended Approach. Books on Demand, 2012

BOOKS FOR REFERENCE

James McCalman., Professor Robert A Paton, Sabina Siebert. Change Management: A Guide to Effective Implementation. SAGE, 2015

Frank Voehl., H. James Harrington. Change Management: Manage the Change or It Will Manage You. Routledge; 1st edition, 2016

C.S.Venkataratnam., Negotiated Change – collective Bargaining, Liberalisation and structuring in India, Response Books, New Delhi.2003

John P. Kotter., Leading Change. Harvard Business Publishing. 2012

C.Jung., The Importance of Change Management in Organisations. GRIN Verlag, 2011

JOURNALS

Journal of Management Development
Academy of Management Journal
International Journal of Management
Journal of Change Management

WEB RESOURCES

<https://www.prosci.com/resources>
<https://www.shrm.org/resourcesandtools>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:

Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3, K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/ME/CM45												
	Course Title: Change Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	2	1	1	1	3	2	2	1	1
CO 2	3	3	1	3	2	1	2	2	3	3	2	2	2
CO 3	3	3	1	3	2	2	2	2	3	3	2	2	2
CO 4	3	3	3	3	3	3	3	3	2	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023 – 2024)

SUPPLY CHAIN MANAGEMENT

CODE: 23BA/ME/SC45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To equip fundamental and key concepts of supply chain management
- To familiarize students with various supply chain strategies
- To expose concepts of logistics management, transportation, and distribution networks
- To promote an understanding of sustainability and role of technology in supply chain management
- To equip students with the knowledge and skills necessary for future careers in supply chain management, procurement, logistics, and related fields

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall key supply chain management terminology and concepts	K1
CO2	Explain the interdependencies and relationships between different components of the supply chain	K2
CO3	Apply supply chain strategies to specific business scenarios	K3
CO4	Analyze supply chain processes and strategies to evaluate their effectiveness	K4
CO5	Evaluate the impact of various supply chain decisions on business performance	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Supply Chain Management			
	1.1 Meaning, Definition, Importance, Types of Supply Chain	K1-K5	2	1-5
	1.2 Meaning, Definition, Historical Evolution, Activities, Features and Importance of Supply Chain Management (SCM)	K1-K5	4	1-5
	1.3 Process View - Supply Chain Management Linkages - Key drivers of a supply chain Management	K1-K5	4	1-5
2	Supply Chain Strategies			
	2.1 Strategic Supply Chain Management – Features - Supply Chain in Value Chain Perspectives	K1-K5	5	1-5

UNIT	CONTENT	CL	HRS	CO
	2.2 Strategic Role of Supply Chain Management - Strategic Supply Chain Management Architecture	K1-K5	5	1-5
	2.3 Strategic fit - Meaning, Achievement of strategic fit through different steps, Obstacles to achieving Strategic Fit	K1-K5	5	1-5
3	Supply Chain Planning, Sourcing and Procurement			
	3.1 Supply Chain Planning, Supply Chain Planning Matrix, Demand Planning, Purchase Planning	K1-K5	5	1-5
	3.2 Meaning, Sourcing Strategies in Supply Chain Management - In-housing or Outsourcing	K1-K5	5	1-5
	3.3 Role of Sourcing in Supply Chain; Benefits of Effective Sourcing Decisions	K1-K5	5	1-5
	3.4 Stages of the Procurement Process, Importance	K1-K5	3	1-5
4	Warehousing and Transportation			
	4.1 Warehousing – Meaning, Types, Functions, Strategy, Elements of Warehousing cost	K1-K5	4	1-5
	4.2 Transportation – Position of Transportation SCM, Elements of Transportation cost, Modes; Selection of Transportation Mode	K1-K5	4	1-5
5	Trend, Technology and Sustainability			
	5.1 Current trends in SCM; Agile and Reverse Supply Chain	K1-K4	4	1-4
	5.2 Role of Technology in Supply Chain Management	K1-K5	4	1-5
	5.3 Sustainability Practices, Green Supply Chain Management and their benefits	K1-K5	4	1-5
	5.4 Case Studies in SCM	K1-K5	2	1-5

BOOKS FOR STUDY

Vinod V. Sople., Supply Chain Management: Text and Cases, Dorling Kindersley (India), 2011

D K Agarwal., Supply Chain Management: Strategy, Cases and Best Practices, Macmillan Publishers India Limited, 2010

Chopra, S., & Meindl, P., Supply Chain Management: Strategy, Planning, and Operation. Pearson, 2021

K. Shridhara Bhat., Supply Chain Management: Concepts and Cases. Himalaya Publishing House, 2022

BOOKS FOR REFERENCE

Michael H. Hugos., Essentials of Supply Chain Management, Wiley, 2018

Jindal, P., Logistics and Supply Chain Management: Concepts and Practices. Vikas Publishing House, 2019

JOURNALS

Journal of Supply Chain Management

Supply Chain Management: An International Journal

International Journal of Physical Distribution & Logistics Management

WEB RESOURCES

<https://cscmp.org>

<https://supplychaindigital.com>

<https://www.ismworld.org>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:

Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BA/ME/SC45												
	Course Title: Supply Chain Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	2	2	2	2	1	1	2
CO 2	2	3	2	1	2	2	2	2	3	2	2	1	2
CO 3	2	2	2	1	2	2	3	2	2	2	3	1	3
CO 4	2	2	2	1	2	2	2	2	2	1	3	2	2
CO 5	1	2	2	1	2	2	3	2	1	2	2	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI -600086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

EMOTIONAL INTELLIGENCE AND MANAGERIAL COUNSELLING

CODE: 23BA/ME/EI45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to acquire conceptual knowledge of emotions
- To expose the students to the models of emotional intelligence
- To acquaint students with the impact of elements of emotional intelligence
- To identify the concepts and relevance of managerial counseling
- To sensitize students on the counseling process in handling conflict situations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the fundamental concepts of emotions and managerial counselling	K1
CO2	explain the significance of emotional intelligence and managerial counselling	K2
CO3	apply the models and techniques of EI in daily life	K3
CO4	analyze the process of EI in personal life and workplace	K4
CO5	evaluate appropriate methods in handling conflict situations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Concept of Emotions – Historical Roots of Multiple Intelligences - EI, EQ, IQ	K1-K2	5	1-2
	1.2 Nature and significance of Emotional Intelligence	K1-K2	3	1-2
	1.3 Goleman's Domains of emotional intelligence: self-awareness, self-management, social awareness, and relationship management	K1-K4	4	1-4
2	Building blocks of Emotional Intelligence			
	2.1 Models of emotional intelligence: Ability, Trait and Mixed	K1-K4	6	1-4

UNIT	CONTENT	CL	HRS	CO
	2.2 Personal Competence (Self Awareness, Self-Management & Motivation)	K1-K4	3	1-4
	2.3 Social Competence (Empathy & Social Skills - Understanding Empathy - Importance of Empathy - Application of Self-Efficacy of EI)	K1-K4	6	1-4
3	Impact of Fundamental Elements of Emotional Intelligence			
	3.1 Seven Elements defined in Behavioral terms – Self Awareness - Emotional Resilience – Motivation – Interpersonal Sensitivity - Influence - Intuitiveness - Conscientiousness	K1-K4	5	1-4
	3.2 Application of Impact of Emotional Intelligence in our daily life	K1-K4	4	1-4
	3.3 Emotional Intelligence at Workplace - Leadership	K1-K4	4	1-4
4	Introduction to Managerial Counselling			
	4.1 Concepts of Counselling - Self-Development of Managers as Counselors	K1-K2	4	1-2
	4.2 Assertiveness and Interpersonal Skills for Counselors, Counselling Relationship	K1-K3	5	1-3
	4.3 Essentials of Skills, Nonverbal Clues	K1-K3	4	1-3
5	Development of Counseling			
	5.1 Counselling Process - Counselling Interventions in Organizations, Empathy, Listening and Responding, Effective Feedback	K1-K5	4	1-5
	5.2 Performance Counselling – Features – Process of Performance counselling	K1-K5	4	1-5
	5.3 Counselling in Interpersonal Conflicts, Midlife Blues, Problem Situations, Integration and Action Plan	K1-K5	4	1-5

BOOKS FOR STUDY

Daniel Goleman, Emotional Intelligence Bloomsbury India; 2011th edition, New Delhi, 2021
Kavita Singh Counselling Skills for Managers, Second Edition, New Delhi: PHI, 2015

BOOKS FOR REFERENCE

David Mckay Emotional Intelligence 2.0 Notion Press, 2020
Daniel Robbins, Josh Jackson, Emotional Intelligence, Createspace Independent Publishing Platform, 2014
S Sanya, Communication and Counseling in the Workplace, Daya Publishing House 2005

JOURNALS

Journal of Applied Psychology
Journal of Organizational Behavior
Emotion Review
Journal of Managerial Psychology

WEB RESOURCES

<http://www.eiconsortium.org/>

<https://hbr.org/topic/subject/emotional-intelligence>

<https://www.mindtools.com/ab4u682/emotional-intelligence>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:

Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BA/ME/EI45												
	Course Title: Emotional Intelligence and Managerial Counselling												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	1	2	3	2	2	1	1
CO 2	3	3	3	2	2	1	1	2	3	2	2	1	1
CO 3	3	3	3	2	2	1	1	2	2	2	3	1	2
CO 4	2	2	2	3	2	1	1	2	2	2	3	1	2
CO 5	2	2	2	2	3	1	1	2	1	2	2	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

LEADERSHIP AND TEAM MANAGEMENT

CODE: 23BA/ME/LT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to the leadership behavior and their styles
- To familiarise students about various leadership theories
- To foster an awareness of the importance of ethical leadership and responsible decision-making
- To acquaint students with Team Management process
- To inculcate the qualities for building and leading a Team

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the concepts and theories of leadership and various aspects of team	K1
CO2	understand the fundamental principles of leadership and its significance in Team Development, Development and Management	K2
CO3	identify the impact of different leadership styles on team performance	K3
CO4	demonstrate effective headship techniques to improve the quality of a team in an organisation	K4
CO5	evaluate the characteristics of leader in managing and building a splendid team	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Leadership – Introduction			
	1.1 Leadership – Meaning, Definition, Attributes and Characteristics of Leader	K1-K5	4	1-5
	1.2 Styles and Approaches of Leadership	K1-K5	4	1-5
	1.3 Types of Leadership and Steps for effective Leadership	K1-K5	4	1-5
	1.4 Ethical Leadership – Meaning, Need, Importance and Challenges	K1-K5	4	1-5
2	Leadership – Theories, Factors			
	2.1 Theories of Leadership – Types - Trait Theory, Behavioral and Style Theory, Managerial Grid Model Theory, Functional Theory, Transactional and Transformational Theory	K1-K5	8	1-5
	2.2 Factors Influencing Leadership	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
3	Team - Introduction			
	3.1 Team – Meaning, Nature and Importance of Team	K1-K5	3	1-5
	3.2 Purpose of Team, Types of Team	K1-K4	3	1-4
	3.3 Models of Team - GRPI Model, Katzenbach and Smith Model, T7 Model of Team Effectiveness, LaFasto and Larson Model, Hackman's Model, Lencioni Model, Google Model, Salas, Dickinson, Converse and Tannenbaum Model	K1-K5	8	1-5
	3.4 Characteristics of a Good Team	K1-K5	2	1-5
4	Team Development and Team Building			
	4.1 Team Development – Meaning, Tuckman's Team Development Model	K1-K5	3	1-5
	4.2 Team Building – Meaning, Importance and Principles of Team Building	K1-K5	4	1-5
	4.3 Success Factors in Team Building	K1-K5	3	1-5
	4.4 Difference between Team Building and Team Development	K1-K5	3	1-5
5	Team Management			
	5.1 Team Management – Meaning and Features of Team Management	K1-K5	2	1-5
	5.2 Team Management Skills and Team Management process	K1-K5	4	1-5
	5.3 Leadership Roles in Team Management	K2-K5	2	2-5
	5.4 Responsibilities of Team Leader	K2-K5	2	2-5

BOOKS FOR STUDY

Jan Carmichael, et.al. Leadership and Management Development, Oxford Publications, 2011
 Uday Kumar Halder, Leadership and Team Building, Oxford Publications, 2010
 S. K. Bhatia., Team Leadership-Concepts, Roles, Strategies and Attributes, Deep & Deep Publications, 2007
 Keow Ngang Tang., Leadership and Change Management, Springer Nature Singapore, 2019

BOOKS FOR REFERENCE

Chandra Mohan, Leadership and Management, Himalaya Publishing House, 2017
 Richard Hughes, Robert C. Ginnett, Gordon J Curphy, Leadership: enhancing the lessons of Experience, McGraw –Hill Publication, 2022
 T.V. Rao, Charu Sharma, 100 Managers in Action, McGraw- Hill Publication, 2012
 Bonnie T Yarbrough, Leading groups & Team, Cengage Learning, 2011

JOURNALS

Journal of Leadership Education
 The Leadership Quarterly
 Journal of Education for Business

WEB RESOURCES

<https://www.thebalancemoney.com>
<https://www.managementstudyguide.com/>
www.businessdictionary.com

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/ME/LT45												
	Course Title: LEADERSHIP AND TEAM MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	1	2	2	1	2	2	2	1	1	2
CO 2	3	3	2	1	2	2	1	2	3	2	2	1	2
CO 3	2	2	2	1	2	2	2	2	2	2	3	1	3
CO 4	1	2	2	1	2	3	1	2	2	1	3	2	2
CO 5	2	2	2	1	2	3	2	2	1	2	2	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023-2024)

CONSUMER BEHAVIOR & NEURO MARKETING

CODE: 23BA/ME/CN45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to analyze the complexities of buying behavior and to formulate successful strategies
- To identify relevant information of consumer to develop marketing strategies based on consumer behavior
- To acquaint students with basic brain mechanisms in consumer choice, the neuro marketing methods ranging from behavioral tests to eye-tracking
- To Expose students with broad knowledge of the field of neuroscience
- To evaluate issues and dimensions of consumer behaviour

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the importance of consumer behaviour theories in marketing decisions	K1
CO2	explain the rational of social and ethical implications of marketing actions on the consumer behaviour.	K2
CO3	demonstrate and develop consumer behaviour-oriented marketing strategies	K3
CO4	analyze appropriate techniques to find solutions to different marketing problems.	K4
CO5	evaluate and solve business-related issues	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Consumer as an Individual			
	1.1 Consumer Behavior - Concepts, Dimensions of Consumer Behaviors	K1-K4	4	1-4
	1.2 Consumer Needs and Motives, Personality and Consumer Behavior	K1-K5	4	1-5
	1.3 Consumer Perception, Learning, Consumer Attitudes, Attitude Formation and Change	K1-K5	3	1-5
	1.4 Communication and Persuasion, Self-Image, Life Style Analysis	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
2	Consumers in Social and Cultural Settings			
	2.1 Group Dynamics and Consumer Reference Groups	K1-K3	4	1-3
	2.2 Family – Social Class Cultural and Sub-Cultural Aspects	K1-K4	4	1-4
	2.3 Cross Cultural Consumer Behavior. Cultural Values and Consumer Behavior, Persuading Consumers – Broad Casting vs. Narrow Casting Models	K1-K5	3	1-5
	2.4 Diffusion of Innovations Reference Groups and Communities, Opinion Leaders and Word of Mouth	K1-K5	4	1-5
3	Consumer Decision Process and Post Purchase Behavior			
	3.1 Consumer Decision Making Process	K1-K4	2	1-4
	3.2 Models of Consumer Decision Process, Nicosia-Howard Sheth and Engel-Kollat- Model, Post Purchase Processes	K1-K5	2	1-5
	3.3 Customer Satisfaction, and Customer Commitment, Managing Dissonance	K1-K5	2	1-5
	3.4 Consumer Loyalty, Online Consumer Behaviour, its Diffusion in India	K1-K5	4	1-5
4	Introduction to Neuro marketing			
	4.1 An Overview of Neuroscience and Neuro marketing	K1-K3	2	1-3
	4.2 Interdisciplinary Nature of Neuro Marketing	K1-K4	2	1-4
	4.3 Neuro marketing Versus Traditional Methods-key Benefits and Issues	K1-K3	4	1-3
	4.4 Mapping the Brain. Attention and Consciousness, Sensory Neuro Marketing, Learning and Memory	K1-K5	2	1-5
5	Neuro marketing and Ethics			
	5.1 Neural Marketing Cases in India	K1-K5	5	1-5
	5.2 Neuro Ethics and Consumer Aberration, Ethical and Socially Responsible Marketing, Consumerism	K1-K5	5	1-5
	5.3 Ethical Consumption, Sustainable Consumption	K1-K5	5	1-5

BOOKS FOR STUDY

Suja Nair., Consumer Behaviour & Marketing Research, Himalaya Publication House, 2020

Leon G.Schiffman & Leslie L.Kanuk., Consumer Behaviour, Prentice Hall Publication, latest Edition, 2015

Leon G. Schiffman, Joseph Wisenblit, S. Ramesh Kumar., Consumer Behavior, Pearson Education, 2019

Kumar Leon G., Schiffman;Joe, Wisenblit;S. Ramesh., Consumer Behavior, Pearson Education, 2018

BOOKS FOR REFERENCE

Schiffman & Kanuk., Consumer Behavior, Pearson Education, 2004
Hawkins, Best & Coney., Consumer Behavior, McGraw Hil, 2004
Blackwell, Miniard and Engel., Consumer Behavior, Cengage Learning, 2009

JOURNALS

European Journal of Marketing
Frontiers in Neuroscience
Journal of Advertising Research
Journal of Neuroscience Psychology and Economics

WEB RESOURCES

<https://www.nielsen.com/insights>
<https://www.trendwatching.com>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	3 X 2 = 6 (No Choice-50 words)
B	K2	10	2 X 5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2 X 10 =20 (internal choice for one K3 questions and one K4 question- 500 words)
D	K5	14	1 X 14 = 14 (out of 2 questions- 1000 words)

Other Components: Total Marks: 50

Assignment / Seminar / Presentation / Open Book Test / Scheduled Class Work – Passage or Case Analysis / Quiz / Objective Test / Panel Discussion / Group Presentation etc.

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3, K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BA/ME/CN45												
	Course Title: CONSUMER BEHAVIOR & NEURO MARKETING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	1	2	2	2	2	2	2	2	3	2
CO 2	3	2	2	1	2	2	2	2	3	2	2	3	2
CO 3	2	3	2	1	3	2	3	2	3	3	2	3	3
CO 4	3	2	3	1	3	2	2	2	3	2	3	2	3
CO 5	2	2	2	1	3	2	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
General Elective Course Offered by B.B.A to students of
B.A / B.Sc. / B.Com. / B.Com (CO) / B.Com (A&F) / B.C.A. / B.V.A Degree Programme

SYLLABUS
(Effective from the academic year 2023 – 2024)

TEAM DYNAMICS

CODE: 23BA/GE/TY22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To identify the need for team dynamics in an organisation
- To equip students with team building skills
- To familiarise the importance of team work
- To provide insights about conflicts in a team
- To expose students to the positive consequences of conflict

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	Define Key terms in Team Dynamics	K1
CO2	Explain the nature and significance of Team	K2
CO3	Apply team building skills to enhance team performance	K3
CO4	Analyse the causes for conflict in the process of team development	K4
CO5	Evaluate the positive outcomes of team conflict	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Team Dynamics – Introduction			
	2.1 Team Dynamics– Meaning, Nature and Importance of Team Dynamics	K1-K4	2	1-4
	2.2 Purpose of Team Dynamic, Types of Team Dynamics	K1-K4	2	1-4
	2.3 Characteristics of a Good Team Dynamics	K1-K5	2	1-5
2	Team Development and Team Building			
	2.1 Team Development – Meaning, Tuckman’s Team Development Model	K1-K5	3	1-5
	2.2 Team Building – Meaning, Importance and Principles of Team Building	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
	2.3 Success Factors in Team Building	K1-K5	2	1-5
	2.4 Difference between Team Building and Team Development	K1-K4	2	1-4
3	Handling Conflicts in a Team			
	3.1 Team Conflict - Meaning, Definition, Causes of Conflicts	K1-K4	2	1-4
	3.2 Levels of Conflict, Stages of Conflict	K1-K5	4	1-5
	3.3 Measures to Stimulate Team Conflict	K1-K4	2	1-4
	3.4 Consequences of Conflicts – Positive Aspects of Conflicts	K1-K5	2	1-5

BOOKS FOR STUDY

Jan Carmichael, et.al. Leadership and Management Development, Oxford Publications, 2011.
Uday Kumar Halder, Leadership and Team Building, Oxford Publications, 2012

BOOKS FOR REFERENCE

Richard Hughes, Robert C. Ginnett, Gordon J Curphy, Leadership: enhancing the lessons of Experience, McGraw –Hill Publication, 6th Edition, 2011
T.V. Rao, Charu Sharma, 100 Managers in Action, McGraw- Hill Publication, 2012
Bonnie T Yarbrough , Leading groups & Team, Cengage Learning, New Delhi, 2011
Rao, V.S.P. Human Resource Management, New Delhi. Excel Books

JOURNALS

SAGE Journals
Research in Higher Education Journal
Journal of the Human Factors and Ergonomics Society
Academy of Management Journal.
International Journal of Conflict Management
International Journal of Project Management

WEB RESOURCES

<https://www.jstor.org/>
<https://www.thinkwithgoogle.com/>
<https://www.shrm.org/resourcesandtools/>
<https://hbr.org/>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration: 60 minutes**

Section	Cognitive Level	Marks	Pattern
A (All Questions to be answered)	K1	1-5	5 x 1 = 5
B (All Questions to be answered)	K2	6-10	5 x 1 = 5
C (Internal Choice)	K3/K3	11 or 12	5 x 1 = 5
	K4/K4	13 or 14	5 x 1 = 5
D (Internal Choice)	K5/K5	15 or 16	5 x 1 = 5
TOTAL			25

Other Components:**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
General Elective Course Offered by B.B.A to students of
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SYLLABUS
(Effective from the academic year 2023 – 2024)

CORPORATE ETIQUETTES

CODE: 23BA/GE/CE22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To familiarize students about the meaning of etiquettes in business
- To acquaint students with the classifications of etiquettes
- To sensitize students on the principles of communication
- To enable students to understand the meaning of interview etiquette
- To provide students to explore the significance of emotional intelligence

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	Define key terms of etiquette, communication and EI in business	K1
CO2	Explain the significance of corporate etiquettes and its types	K2
CO3	Relate the principles of communication in business	K3
CO4	Analyze the effectiveness of etiquettes, communication and EI at workplace	K4
CO5	Evaluate the significance of interpersonal relationships in professional life	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate

UNIT	CONTENT	CL	HRS	CO
1	Etiquette at Workplace			
	1.1 Corporate Etiquette – Meaning, Need, Essentials of Corporate Etiquette	K1-K4	2	1-4
	1.2 Classifications of Corporate Etiquette –Clothing Etiquette, Email Etiquette, Telephone and Meeting Etiquette and their do's and dont's	K1-K5	3	1-5
	1.3 Desktop Etiquette - Codes of Conduct required at the Workstation	K1-K4	3	1-4
2	Communication skills			
	2.1 Principles, Forms and Process of Communication	K1-K4	3	1-4
	2.2 Types of Communication Barriers	K1-K4	2	1-4

UNIT	CONTENT	CL	HRS	CO
	2.3 Communication gaps	K1-K4	2	1-4
	2.4 Tips to improve the communication skills	K1-K4	2	1-4
3	Interview Etiquette and Emotional Intelligence			
	3.1 Types of Interviews, Codes of Conduct for Interview	K1-K4	2	1-4
	3.2 Preparation of Resume, Preparation for Group Discussion	K1-K4	3	1-4
	3.3 Emotional Intelligence – Meaning, Tips to enhance interpersonal relationship at Workplace	K1-K5	2	1-5
	3.4 Significance of interpersonal relationships in professional life	K1-K5	2	1-5

BOOKS FOR STUDY

Vivek Bindra. Everything About Corporate Etiquette. Bloomsbury India, 2015
Saurabh Bhatia. Indian Corporate Etiquette. Saurabh Bhatia; 2nd Edition, 2011

BOOKS FOR REFERENCE

Paul. A. Argenti. Corporate Communication; 6th Edition, 2013
Lesikar and Flatley. Basic Business Communication. Mcgraw-Hill (Tx); 9th Edition,
Kelly M. Quintanilla & Shawn T. Wahl. Business and Professional Communication: KEYS for Workplace Excellence. SAGE Publications Inc; 2nd Edition, 2013

JOURNALS

Journal of Business & Management
International Journal of Management

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 25 Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A (All Questions to be answered)	K1	1-5	5 x 1 = 5
B (All Questions to be answered)	K2	6-10	5 x 1 = 5
C (Internal Choice)	K3/K3	11 or 12	5 x 1 = 5
	K4/K4	13 or 14	5 x 1 = 5
D (Internal Choice)	K5/K5	15 or 16	5 x 1 = 5
TOTAL			25

Other Components: Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
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SYLLABUS
(Effective from the academic year 2023 – 2024)

CROSS CULTURE MANAGEMENT

CODE: 23BA/GE/CC22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To develop a fundamental understanding of the concept of culture and its significance in the business context
- To familiarize students with prominent cultural dimensions and frameworks to analyze and interpret cultural differences
- To equip students with the knowledge of communication skills required to work collaboratively in diverse teams, emphasizing cultural sensitivity
- To provide students with strategies for managing negotiations and resolving conflicts that may arise from cultural differences
- To prepare students for international business roles by equipping them with the knowledge and tools to address cultural differences and leverage cultural diversity for business success

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall fundamental concepts related to cross-cultural management, including culture, communication, negotiation, leadership, motivation, and decision making	K1
CO2	develop an understanding of the cultural dimensions, communication styles, leadership types, and decision-making processes across different cultures	K2
CO3	apply cross-cultural communication and negotiation strategies in practical scenarios involving diverse cultural contexts	K3
CO4	analyze the impact of cultural factors on organizational behavior, leadership effectiveness, and decision-making outcomes	K4
CO5	assess the strategic implications of decision-making processes influenced by cultural factors in the global business environment	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Understanding Cross Culture			
	1.1 Culture – Meaning, Features	K1-K4	2	1-4
	1.2 Cultural Dimensions of Explaining Cultural Differences	K1-K5	4	1-5
2	Culture and Business Communication			
	2.1 Communication – Kinetics, Non Verbal communication, High Context vs Low Context	K1-K5	4	1-5
	2.2 Working in Teams with Members from Various Cultures	K1-K5	4	1-5
	2.3 Negotiation - Meaning and process; Managing of Negotiation and Conflict due to Cultural Differences	K1-K5	4	1-5
3	Leadership, Motivation and Decision Making Across Cultures			
	3.1 Leadership Types across Various Cultures	K1-K5	2	1-5
	3.2 Motivation – Work and Non-Work Motivation in various Cultures	K1-K5	2	1-5
	3.3 Decision Making- Meaning and Process, Managerial Implications that vary across Different Countries	K1-K5	4	1-5

BOOKS FOR STUDY

David C. Thomas, Kerr Inkson., Cross-Cultural Management -An Introduction, SAGE Publications, 2021
Hofstede, G., & Hofstede, G. J., Cultures and Organizations: Software of the Mind. McGraw-Hill, 2005
Shobana Madhavan., Cross Culture Management - Concepts and Cases, Oxford University Press, 2011
David C. Thomas, Mark F. Peterson., Cross-Cultural Management - Essential Concepts, SAGE Publications, 2016

BOOKS FOR REFERENCE

Marie-Joëlle Browaeys, Roger Price., Understanding Cross Cultural Management, Pearson Education Canada, 2019
Hofstede, G., Culture's consequences: Comparing values, behaviors, institutions, and organizations across nations. Sage Publications, 2001
Dipak Kumar Bhattacharyya., Cross-cultural Management-Texts and Cases, Prentice Hall India Learning P Ltd, 2010

JOURNAL

International Journal of Cross Cultural Management

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration: 60 minutes**

Section	Cognitive Level	Marks	Pattern
A (All Questions to be answered)	K1	1-5	5 x 1 = 5
B (All Questions to be answered)	K2	6-10	5 x 1 = 5
C (Internal Choice)	K3/K3	11 or 12	5 x 1 = 5
	K4/K4	13 or 14	5 x 1 = 5
D (Internal Choice)	K5/K5	15 or 16	5 x 1 = 5
TOTAL			25

Other Components:**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
General Elective Course Offered by B.B.A to students of
B.A / B.Sc. / B.Com. / B.Com (CO) / B.Com (A&F) / B.C.A. / B.V.A Degree Programme

SYLLABUS
(Effective from the academic year 2023 – 2024)

MEDIA MANAGEMENT

CODE: 23BA/GE/MM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To understand the evolution and importance of media management
- To expose students to an Integrated Marketing Plan by using a wide variety of media
- To acquaint students on regulations of Media Management
- To identify and Study the influences of government on production and broadcasting
- To develop leadership, management, creative and a set of business skills required for media management

COURSE LEARNING OUTCOME

On successful completion of the course students will be able to

COS	DESCRIPTION	CL
CO1	understand the evolution of media and identify the key challenges in current scenario	K1
CO2	identify the use of technology in Media Management	K2
CO3	analyze and understand the essential role accurate, responsible and ethical journalism across media	K3
CO4	integrate the best practices and tools to design and develop dynamic media content	K4
CO5	formulate business, marketing and advertising contexts and concerns with the technical aspects of producing media.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	An Overview of Media Industry			
	1.1 A Historical Perspective on Media	K1-K2	1	1-2
	1.2 Media Consolidation	K1-K2	1	1-2
	1.3 Public Ownership of Media	K1-K3	1	1-3
	1.4 Institutional Investors and Financial Firms	K1-K3	1	1-3
	1.5 Fragmentation of Media Markets, Preparing for a New Media World	K1-K3	2	1-3
2	Media Management			
	2.1 Focus on Media Management	K1-K3	2	1-3
	2.2 Indian Media- Broadcast, Print, Audio-visual, Cinema	K1-K3	2	1-3

UNIT	CONTENT	CL	HRS	CO
	2.3 Influence of Media	K1-K4	2	1-4
	2.4 News Media- Broadcasting, News Magazines, Newspapers, Newsreels	K1-K4	2	1-4
	2.5 Online Journalism and News Coverage	K1-K4	2	1-4
3	Media Management Regulations and Electronic Media Management			
	3.1 Preventing Legal Problems	K1-K4	3	1-4
	3.2 General areas of legal concern- employee health and safety	K1-K4	3	1-4
	3.3 Privacy, Free press/ Fair Trial issues	K1-K4	2	1-4
	3.4 Media Convergence and Interplay of Technology Development	K1-K5	2	1-5

BOOKS FOR STUDY

Media Management by B. K. Chaturvedi (Author) December 2014

B K Chaturvedi, Media Management, New Delhi: Global Vision Publishing House – 2019

Sandra Diehl and Matthias Karmasin, Media and Convergence Management- Springer - 2013

BOOKS FOR REFERENCE

Looy V. Amy. Social Media Management, Technologies and Strategies for Creating Business Value, Springer -2015

Kundra S, Media Management, New Delhi, Anmol Publications - 2015

JOURNALS

International Journal on Media Management

Journal of Digital Media Management

Journal of Media Studies

Media, Culture and Society: Sage Journals

Journal of Media and Communication Studies

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 25 Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A (All Questions to be answered)	K1	1-5	5 x 1 = 5
B (All Questions to be answered)	K2	6-10	5 x 1 = 5
C (Internal Choice)	K3/K3	11 or 12	5 x 1 = 5
	K4/K4	13 or 14	5 x 1 = 5
D (Internal Choice)	K5/K5	15 or 16	5 x 1 = 5
TOTAL			25

Other Components: Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.B.A. DEGREE: BUSINESS ADMINISTRATION

SYLLABUS

(Effective from the academic year 2023–2024)

PRODUCTION AND OPERATIONS MANAGEMENT

CODE: 23BA/UI/PO23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To gain an understanding of the principles and applications relevant to the planning, design, Layout and operations of manufacturing/service firms
- To familiarize students with various operations management techniques
- To educate students on the relationship of operations with other managerial functions
- To provide the knowledge of quality management practice in organizations and how total quality management facilitate organizational effectiveness
- Understand the importance of product and service design decisions and its impact other design decisions and operations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	memorize facts, terms, basic concepts used in production and operation management	K1
CO2	understand the principles, practices and functions of production and operation Management	K2
CO3	develop managerial skills to excel in roles related to product planning, Location, Layout, design and development	K3
CO4	appreciate the relationship of operations with other managerial functionsand differentiate between Product and Service	K4
CO5	evaluate and align production and operation practices with the organization's strategic goals and values	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	CO
1	Introduction		
	1.1 Overview of Process and Operation Management	K1 – K2	1 - 2
	1.2 Relationship of Operations with Other Functions- Marketing, Finance, HumanResource	K1 – K4	1 - 4
	1.3 Difference between Product and Service	K1 – K4	1 - 4
2	Plant Location and Layout Planning		
	2.1 Plant Location- Meaning, Objectives of Location	K1 – K2	1 - 2

UNIT	CONTENT	CL	CO
	2.2 Plant Layout-Meaning, Advantage and Principles of a Good Layout	K1 – K4	1 - 4
3	Product Design and Development		
	3.1 Definition, Objectives, Factors Affecting Product Design	K1 – K2	1 - 2
	3.2 Product Development – Meaning, Methods, Scope of Development	K1 – K5	1 - 5
	3.3 Stages of Product Development	K1 – K5	1 - 5
4	Production Planning and Control		
	4.1 Meaning, Objectives, Scope, Importance of Production Planning	K1 – K2	1 - 2
	4.2 Production Schedule, Dispatch Follow up	K1 – K5	1 - 5
	4.3 Production Control- Meaning, Factor Affecting Production and Control	K1 – K5	1 - 5
5	Total Quality Management		
	5.1 Introduction- Quality Circle, Stages of Quality Circle	K1 – K2	1 - 2
	5.2 Total Quality Management (TQM) –Meaning, Responsibility for Quality and Factors for the Success of TQM	K1 – K5	1 - 5

BOOKS FOR REFERENCE

Ashwathappa.K & Sridhara Bhatt ‘Production and Operations Management’, Himalaya Publishing House, Mumbai, 2023

Chunawalla, S.A and Patel D.R, ‘Production and Operations Management’, Himalaya Publishing House, Mumbai, 2017

Khanna. K.K ‘Production and Operations Management: Logistical Approach’, Himalaya Publishing House, Mumbai, 2016

Panner Selvam R.-‘Production and Operations Management’, Prentice Hall of India, NewDelhi, 2012

Dan R. Reid, Sanders R. Nada, Operations Management - An Integrated Approach’ 3rd Edition, Wiley India (P) Ltd., New Delhi, 2020

Render Barry and Heizer Jay , Operations Management, 6th Edition, Pearson Publications, 2016

JOURNALS

Journals of Operation Management

International Journal of Service and Operation Management International Journal of Production Economics

Journal of Production Research

WEB RESOURCES

www.smude.edu.in

www.athabascau.ca

www.ateneo.edu

PATTERN OF ASSESSMENT

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	5 X 2 = 10 (No Choice-50 words)
B	K2	20	4 X 5 = 20 (out of 6 questions-150 words)
C	K3, K4	40	4 X 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 X 15 = 30 (out of 3 questions-1000 words)



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

**B.Com. DEGREE
BANKING, FINANCE AND ENTREPRENEURSHIP
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)**

**SYLLABUS
(Effective from the academic year 2023 – 2024)**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI, CHENNAI – 600 086

DEPARTMENT OF COMMERCE – SHIFT II

**BACHELOR OF COMMERCE – BANKING, FINANCE AND
ENTREPRENEURSHIP**

PROGRAMME DESCRIPTION

The B.Com. Degree programme on Banking, Finance & Entrepreneurship has been initiated by Stella Maris College in keeping with the need to have well trained personnel with requisite skills and competency to take up careers in the banking and financial services industry and to establish a business of their own. The programme aims towards building a foundation in banking and finance and creates an independent entrepreneurial thinking in students. The programme provides an overview of the business environment and the skills required to be a trained finance professional and an entrepreneur. This programme also complements students with the family business background assisting them in understanding the business operations and growth opportunities. This is a skill development programme with scope for being industry ready and for establishing a new venture.

VISION OF THE DEPARTMENT

In consistent with the vision of the College, we are in pursuit of excellence in Commerce, by providing a vibrant and innovative Centre of Learning for the students to realize their potential and facilitate them to become business leaders and entrepreneurs with essential virtues of 'Truth and Charity' thereby upholding the motto of the College.

MISSION OF THE DEPARTMENT

Our mission is to excel as a transformational leader in Commerce, by equipping the students with sound theoretical knowledge and application skills to surge ahead in their career, adequately moulding them to meet the challenges of the emerging "Knowledge Society" besides inculcating humane values in them for the well-being of the society

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.Com. in Banking, Finance and Entrepreneurship, the students will be able to

PSO 1	demonstrate an understanding of the concepts, methods and standards in business
PSO 2	comprehend the financial requirements of business ventures and underlying financial risks
PSO 3	assess and evaluate suitable skills in information technology, problem- solving and critical thinking to analyse and address issues relating to business
PSO 4	appreciate the significance of ethics in business and identify unethical practices
PSO 5	adopt appropriate business practices in evaluating and improving sustainability in business environment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Com. Banking, Finance and Entrepreneurship 2023 - 2024 Shift II														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4									6	8
Part - II														
English	3	4	3	4									6	8
											Total		12	16
Part - III	4	5	4	5	4	5	4	5	4	5	3	4	23	29
Major Core	3	4	3	4	3	4	3	4	4	5	3	4	19	25
					3	4	3	4	3	4	4	5	13	17
					3	4	3	4	3	4	4	5	13	17
			2				2						4	0
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		107	124
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3	3	3									6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library						2		2		1		1	0	6
Mentoring		1				2		1		1		1	0	6
											Total		4	14
Total	26	30	29	30	22	30	25	30	23	30	24	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. Banking, Finance and Entrepreneurship DEGREE PROGRAMME

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23BF/MC/FA14	Financial Accounting	4	4	1	0	3	50	50	100
23BF/MC/BF13	Banking Functions and Services	3	3	1	0	3	50	50	100
23BF/AC/ME15	Monetary Economics	5	5	0	0	3	50	50	100
23BF/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23BF/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
SEMESTER-II									
23BF/MC/CM24	Cost Management	4	4	1	0	3	50	50	100
23BF/MC/LB23	Legal and Regulatory Aspects of Banking	3	3	1	0	3	50	50	100
23BF/MC/IN22	Internship	2							
23BF/AC/SF25	Strategic Financial Planning	5	5	0	0	3	50	50	100
23BF/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23BF/MC/CR34	Corporate Financial Reporting	4	4	1	0	3	50	50	100
23BF/MC/RC33	Retail and Corporate Banking	3	3	1	0	3	50	50	100
23BF/MC/MP33	Management Principles and Applications	3	3	1	0	3	50	50	100
23BF/MC/EE33	Entrepreneurship Ecosystem	3	3	1	0	3	50	50	100
23BF/AC/SE35	Strategic Edge Analysis	5	5	0	0	3	50	50	100
	General Elective II / Basic Tamil II								
CD / ET / SC	Value Education								
SEMESTER-IV									
23BF/MC/FM44	Financial Management	4	4	1	0	3	50	50	100
23BF/MC/HC43	Human Capital Management	3	3	1	0	3	50	50	100
23BF/MC/AD43	Accounting for Decision Making	3	3	1	0	3	50	50	100
23BF/MC/IF43	Indian Financial System	3	3	1	0	3	50	50	100
23BF/MC/IN42	Internship	2							
23BF/AC/FA45	Financial Analysis using Computers Practical	5	1	0	4	3	50	50	100
	Major Elective I								
SEMESTER-V									
23BF/MC/BL54	Business Law	4	4	1	0	3	50	50	100
23BF/MC/CF54	Corporate Finance	4	4	1	0	3	50	50	100
23BF/MC/CG53	Corporate Governance and Ethics	3	3	1	0	3	50	50	100
23BF/MC/LE53	Legal Aspects of Entrepreneurship	3	3	1	0	3	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. Banking, Finance and Entrepreneurship DEGREE PROGRAMME

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Interdisciplinary Core (BFE and CO) to students of BFE and CO									
23ID/IC/DI55	Design Thinking and Innovation for Entrepreneurs	5	5	1	0	3	50	50	100
	General Elective III								
	SAP/SL								
SEMESTER-VI									
23BF/MC/CL63	Corporate Law	3	3	1	0	3	50	50	100
23BF/MC/MA63	Marketing and Advertising	3	3	1	0	3	50	50	100
23BF/MC/TN64	Taxation	4	4	1	0	3	50	50	100
23BF/MC/CA64	Corporate Accounting	4	4	1	0	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23BF/ME/SE45	Social Entrepreneurship	5	5	0	0	3	50	50	100
23BF/ME/SP45	Security Analysis and Portfolio Management	5	5	0	0	3	50	50	100
23BF/ME/CR45	Customer Relationship Management	5	5	0	0	3	50	50	100
23BF/ME/TB45	Technology in Banking and Finance	5	5	0	0	3	50	50	100
23BF/ME/DC45	Digital Communication in the Corporate World	5	5	0	0	3	50	50	100
General Electives									
23BF/GE/DM22	Digital Marketing	2	2	0	0	-	50	-	100
23BF/GE/PP22	Personal Financial Planning	2	2	0	0	-	50	-	100
23BF/GE/RI22	Right to Information Act	2	2	0	0	-	50	-	100
23BF/GE/SF22	Seed Finance	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23BF/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23BF/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23BF/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23BF/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23BF/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23BF/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23BF/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23BF/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23BF/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Elective									
23BF/UI/FB23	Family Business Management	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE & ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

FINANCIAL ACCOUNTING

CODE: 23BF/MC/FA14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students the conceptual knowledge about the accounting standards in the preparation of financial statements
- To enable students to understand the significance of bank reconciliation statements
- To familiarise students with adjustments relating to the preparation of financial statements and to prepare final accounts
- To acquaint students with the professional standards in financial accounting
- To expose students to the methods of accounting for non-trading concerns, branches and departments

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Identify the accounting standards applicable in the preparation of financial statements	K1
CO2	Explain the financial accounting concepts	K2
CO3	Apply the principles of accounting in the preparation of financial statements	K3
CO4	Analyse and compare the process of ascertaining profit of trading and non-trading concerns	K4
CO5	Evaluate the financial performance and position of business concerns	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Conceptual Framework for Preparation of Financial Statements			
	1.1 Introduction to Accounting Standards	K1-K2	3	1-2
	1.2 International Accounting Standards			
	1.3 Divergence between U.S. GAAP and IFRS	K1-K3	2	1-3
	1.4 Accounting Standards in India – Objectives, Process, Accounting Standards Board	K1-K4	5	1-4

UNIT	CONTENT	CL	HRS	CO
	1.5 Scope & Application of AS – 1, 2, 3, 4, 5, 9, 10, 26 & 29 in Preparation of Financial Statements			
2	Final Accounts of a Sole Proprietor			
	2.1 Meaning and Scope of Accounting, Accounting Concepts and Conventions	K1-K2	1	1-2
	2.2 Capital and Revenue items- Receipts and Expenditure	K1-K3	2	1-3
	2.3 Preparation of Trial Balance, Rectification of Errors	K1-K5	12	1-5
	2.4 Preparation of Final Account			
	2.4.1 Closing Entries and Adjustments Entries Adjustments - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit before and after Commission, Works Manager and General Manager Commission, writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of samples, Advance Income Tax			
3	3.1 Bank Reconciliation			
	3.1.1 Meaning and Significance of BRS	K1-K2	2	1-2
	3.1.2 Reasons for difference between cash book and pass book			
	3.1.3 Preparation of Bank Reconciliation Statement	K1-K4	3	1-4
	3.2 Depreciation Accounting			
	3.2.1 Meaning, Objectives and Causes	K1-K2	1	1-2
	3.2.2 Methods - Straight Line Method and Written Down Value Method and Sum of Years' Digits Method	K1-K4	5	1-4
	3.2.3 Change of Method (Straight line Method to Written Down Value and vice versa) and Disposal of an Asset	K1-K5	4	1-5
4	Accounting for Non-Trading Organisations			
	4.1 Preparation of Receipts and Payment Account	K1-K4	7	1-4
	4.2 Preparation of Income and Expenditure Account and Balance Sheet			
	4.3 Conversion of Receipts and Payments Account into Income and Expenditure Account	K1-K5	3	1-5
5	Branch Accounts and Departmental Accounts			
	5.1 Branch Accounts			
	5.1.1 Meaning, Objectives and Types of Branches – Dependent Branches and Independent Branches	K1-K2	1	1-2

UNIT	CONTENT	CL	HRS	CO
	5.1.2 Accounting for Dependent Branches- Debtors System (Cost Price Method and Invoice Price Method), Stock and Debtors System (Cost Price Method and Invoice Price Method)	K1-K5	6	1-5
	5.1.3 Accounting for Independent Branches – Accounting Treatment, Reconciliation of Transit items, Incorporation of Branch Trial Balance in Head office Books			
	5.2 Departmental Accounts			
	5.2.1 Meaning, Need and Advantages of Departmental Accounting	K1-K2	1	1-2
	5.2.2 Departmentalization of Expenses – Direct and Indirect Expenses- Basis of Allocation of Indirect Expenses	K1-K3	3	1-3
	5.2.3 Inter-departmental transfers- At Cost Price, Selling price	K1-K5	4	1-5
	5.2.4 Preparation of Departmental Trading Account and Balance Sheet			

BOOKS FOR STUDY

Reddy, T. S., and Murthy, A., *Financial Accounting*, Chennai: Margham Publications, 2023
V.K.Gupta & R.L.Gupta, *Financial Accounting*, New Delhi: Sultan Chand & Sons, 2016

BOOKS FOR REFERENCE

Maheswari, S.N., *Financial Accounting*, New Deelhi: Sultan Chand & Sons, 2022
K L Narang, and S P Jain, *Financial Accounting*, New Delhi: Kalyani Publishers, 2018
Maheswari, S.N., Suneel K Maheswari, *Financial Accounting*, New Delhi: Vikas Publishing House, 2018
Shukla MC, Grewal, *Advanced Accounts*, New Delhi: S.Chand & Co., 2016
Grewal, T., and Gupta, S., *Introduction to Accountancy*, New Delhi: S.Chand Publishing, 2016

JOURNALS

Journal of the Institute of Chartered Accountants of India
Journal of Finance – Sage
Journal of Accounting and Economics
Journal of Accounting Review

WEB RESOURCES

www.icaai.org
www.cfainstitute.org
www.accounting.com

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice - 1 theory and 2 Problem)
B	K2	10	2X5 =10 (out of 3 Questions -1 Theory and 2 problems)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question- Only Problems)
D	K5	10	1×14 = 14 (out of 2 questions - Only Problems)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice -3 problems and 2 theory)
B	K2	20	4 × 5 = 20 (out of 6 questions - 5 Problems and 1 theory)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions – Only Problems)
D	K5	30	2 × 15 = 30 (out of 3 questions - only Problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/FA14												
I	Course Title: FINANCIAL ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	-	3	2	2	2	3	3	3	2	2
CO 2	3	3	3	1	3	-	-	-	3	3	3	-	-
CO 3	3	3	3	-	3	-	1	-	3	3	3	1	-
CO 4	3	3	3	-	3	1	1	1	3	3	3	-	-
CO 5	3	3	3	3	2	1	2	2	3	3	3	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE & ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

BANKING FUNCTIONS AND SERVICES

CODE: 23BF/MC/BF13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide a comprehensive understanding of the banking system
- To enable students to understand the functions and services of banks
- To expose students to the latest developments in Banking Services
- To acquaint students with the banking operations and procedures
- To familiarise students with the different types of banks and its functions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Describe the Indian banking system and its role in economic development	K1
CO2	Discuss the functions of various types of banks, banking products and services	K2
CO3	Relate the different financial scenarios and recommend suitable banking products based on customer needs.	K3
CO4	Analyse the effectiveness of banking strategies in customer relationship	K4
CO5	Recommend banking products and services to meet the evolving needs of customers	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Banking	K1-K2	4	1-2
	1.1 Meaning, Definition and Significance of Banking System			
	1.2 Structure of Indian Banking System	K1-K5	2	1-5
	1.3 Role of Banks in Economic Development			
	1.4 Types of Banks – Central Banks, Co-operative Banks, Commercial Banks, Regional Rural Banks, Local Area Banks, Specialized Banks, Small Finance Banks and Payment Banks	K1-K4	4	1-4

UNIT	CONTENT	CL	HRS	CO
2	Banker – Customer Relationship			
	2.1 Meaning and Definition of Banker and Customer	K1-K2	2	1-2
	2.2 Special Types of Customers	K1-K5	4	1-5
	2.3 Relationship between Banker and Customer – Debtor-Creditor, Trustee Beneficiary, Licensor-Licensee, Agent Principal	K1-K3	3	1-3
	2.4 Banking Ombudsman Scheme – Powers & Procedure for Redressal of Grievance	K1-K5	3	1-5
3	Depository Functions			
	3.1 CASA – Opening and Closing of Bank Accounts, Documents relating to Banking Transactions	K1-K5	10	1-5
	3.2 Fixed & Recurring Deposits - FDR			
	3.3 KYC Norms			
4	Lending Functions			
	4.1 Short Term Loans - Types and Procedure in Operation	K1-K5	10	1-5
	4.2 Long Term Loans – Types, Procedure, Documents and Repayment			
	4.3 Bank Rates - Repo Rate, Reverse Repo Rate, Statutory Liquidity Ratio, Cash Reserve Ratio, Negative Interest Rate			
5	Banking Services			
	5.1 E-Banking – Meaning, Importance, Merits and Demerits	K1-K2	2	1-2
	5.2 Internet Banking, Mobile Banking, Tele-Banking and Retail Banking	K1-K5	8	1-5
	5.3 Service Channels - Debit card, Credit card, ATM Card, POS, Kiosk, Digital Wallet and Smart card			
	5.4 Electronic Payment System – Electronic Clearing Service and Electronic Fund Transfer – NEFT, RTGS, IMPS			
	5.5 Green Banking			

BOOKS FOR STUDY

Gordon, E., & Natarajan, K., *Banking Theory, Law and Practice*, New Delhi: Himalaya Publishing House, 2022

Varshney P.N. Sundharam K.P.M., *Banking Theory Law & Practice*, Sultan Chand and sons New Delhi, Edition 2019

BOOKS FOR REFERENCE

E.Jeevanandham C, *Banking Theory, Law and Practice*, Trichy: Learntech Press, 2022

T R Jain, Mukesh Trehan, Ranju Trehan, *Indian Financial System*, New Delhi V.K. Publications, 2022

Indian and Institute of Banking & Finance (IIBF), *Digital Banking*, Chennai: Taxmann, 2019

Machiraju, H., *Indian Financial System*, New Delhi: Vikas Publication, 2019

Dr.Guruswamy S, *Banking Theory, Law and Practice*, Chennai: Vijay Nicole Imprints Pvt. Ltd, 2017

JOURNALS

Asian Journal of Research in Banking and Finance
Journal of Banking, Information Technology and
Management
Journal of Bank Management
Journal of Internet Banking and Commerce

WEB RESOURCES

www.icsi.edu
www.toppr.com
www.rbi.org.in

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 90 Minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice-50 words)
B	K2	10	2X5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question-500 words)
D	K5	10	1×14 = 14 (out of 2 questions-1000 words)

Other Components: **Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination: **Total Marks: 100** **Duration: 3 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice-50 words)
B	K2	20	4 × 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 × 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/BF13												
I	Course Title: BANKING FUNCTIONS AND SERVICES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	-	-	2	2	2	3	-	3	2	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	1	1
CO 3	3	3	3	-	2	3	2	2	3	3	3	2	3
CO 4	3	3	3	3	2	3	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE & ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

MONETARY ECONOMICS

CODE: 23BF/AC/ME15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide a comprehensive knowledge on monetary theory and practice
- To expose students to the monetary system in India
- To acquaint students with the monetary policy and the Foreign Exchange market
- To familiarize students with the types of exchange rates
- To provide an overview on inflation and its causes and effects

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Describe the effects of monetary systems including regulation of money and associated financial institutions	K1
CO2	Discuss the functions of money and its global impact	K2
CO3	Relate the influence of monetary policies on banking functions	K3
CO4	Analyse the impact of inflation and trade cycle	K4
CO5	Critique the different monetary policy strategies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Money	K1-K2	5	1-2
	1.1 Evolution, Role of Money and Kinds of Money			
	1.2 Functions of Money-Primary, Secondary and Contingent Functions	K1-K4	4	1-4
	1.3 Paper currency system and Note Issue system in India	K1-K5	3	1-5
2	Demand and Supply of Money	K1-K3	3	1-3
	2.1 Factors determining demand for money	K1-K5	4	1-5
	2.2 Determinants of Money Supply – Monetary Aggregates			
	2.3 Classical Theory of Money- Transaction Approach and Cash Balance Approach	K1-K2	6	1-2
	2.4 Keynesian Theory of Demand for Money			

UNIT	CONTENT	CL	HRS	CO
3	Central and Commercial Banks			
	3.1 Commercial Banks- Functions and Nationalization of Banks	K1-K2	4	1-2
	3.2 Credit Creation	K1-K4	3	1-4
	3.3 Central Bank – Objectives, Functions and Role	K1-K3	4	1-3
	3.4 Instrument of Credit Control- General and Selective	K1-K5	4	1-5
4	Monetary Policy and Inflation			
	4.1 Monetary Policy- Objectives, Targets and Indicators	K1-K2	3	1-2
	4.2 Monetary Policy in India- Pre and Post Liberalisation Period	K1-K5	12	1-5
	4.3 Inflation an Overview- Types, Causes and Effects			
	4.4 Inflation Targeting			
5	Foreign Exchange			
	5.1 Foreign Exchange- Concept, Meaning and Demand and Supply	K1-K2	2	1-2
	5.2 Types of Exchange Rates- Fixed and Flexible Exchange Rate	K1-K5	8	1-5
	5.3 Determination of Exchange Rates- Demand and Supply Theory and Purchasing power parity Theory			
	5.4 Exchange Control- Objectives and Methods			

BOOKS FOR STUDY

Mithani DM, *Money, Banking, International Trade and Finance*, New Delhi: Himalaya Publishing House, 2022

M.L. Seth, *Monetary Economics*, Agra: Lakshmi Narain Agarwal, 2020

R.R. Paul, *Monetary Economics*, New Delhi: Kalyani Publishers, 2015

BOOKS FOR REFERENCE

Jhingan ML, *Monetary Economics*, New Delhi: Vrinda Publications, 2012

S.B.Gupta, *Monetary Economics: Institutions, Theory and Policy*, New Delhi: S.Chand & Company, 2010

Sundharam K.P.M, *Money Banking and International Trade*, Sultan Chand & Sons, 2010

Ghosh, B.N. and Ghosh. Rama, *Fundamentals of Monetary Economics*, Mumbai: Himalaya Publishing House, 2007

Paul, R.R. *Monetary Economics*, New Delhi: Kalyani Publishers, 2005

H.L. Ahuja, *Economic Environment of Business*, New Delhi: S. Chand & Sons, 2005

Sethi, T.T., *Monetary Economics*, New Delhi: Sultan Chand & Sons, 2003.

JOURNALS

Journals for Business Economics

Business and Economics Journal-OMICS International

WEB RESOURCES

www.khanacademy.org

www.investopedia.com

www.indiastat.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 Minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice-50 words)
B	K2	10	2X5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question-500 words)
D	K5	10	1×14 = 14 (out of 2 questions-1000 words)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice-50 words)
B	K2	20	4 × 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 × 15 = 30 (out of 3 questions-1000 words)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BF/AC/ME15												
I	Course Title: MONETARY ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	1	-	1	3	3	-	1	1	1
CO 2	3	3	3	1	1	1	2	3	3	-	3	2	2
CO 3	3	3	3	-	2	1	3	3	3	1	3	2	2
CO 4	3	3	3	1	2	3	2	2	3	3	3	2	2
CO 5	3	3	3	3	2	1	3	3	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A./ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23BF/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water)and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A./ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23BF/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group discussions
Group presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

COST MANAGEMENT

CODE: 23BF/MC/CM24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an understanding on the basic concepts of cost
- To equip students with the skills required to analyse and evaluate information for cost ascertainment and control
- To expose students to the lean resource management techniques
- To enable students to compare traditional allocation of overheads with the modern cost management techniques
- To acquaint students with various techniques of cost management in business environment

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Prepare income statements using variable costing and absorption costing	K1
CO2	Classify material and labor cost	K2
CO3	Apply different methods of determining overhead rates and estimate the Cost of Production	K3
CO4	Examine cost data to fix pricing and to take management decisions	K4
CO5	Choose the appropriate use of joint product and by-product costing	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction to Cost Accounting			
	1.1.1 Scope and Objectives of Cost Accounting	K1-K2	2	1-2
	1.1.2 Classification of Costs - Cost Accounting Standards–1	K1-K3	2	1-3
	1.2 Absorption Costing			
	1.2.1 Meaning and Components of Cost Statement	K1-K4	2	1-4
	1.2.2 Computation of Total Cost and Profit	K1-K5	4	1-5
2	2.1 Material Cost – Cost Accounting Standards – 6			
	2.1.1 Computation of Material Cost	K1-K5	1	1-5

UNIT	CONTENT	CL	HRS	CO
	2.1.2 Stores Control -Techniques of Inventory Control, Economic Order Quantity, Level Setting		4	
	2.1.3 Issue Control - Stores and Material Records, Methods of Material Issue –First in First Out, Last in First Out, Average Cost- Simple and Weighted Average		4	
	2.1.4 Presentation and Disclosure in Cost Statements		2	
	2.2 Labour Cost – Cost Accounting Standards – 7 2.2.1 Computation of Labour Cost, Treatment of Overtime and Idle time		2	
	2.2.2 Presentation and Disclosure in Cost Statements		2	
3	Overheads – Cost Accounting Standards – 3 3.1 Classification of Overhead Costs	K1-K4	1	1-4
	3.2 Plant-wide vs. Departmental Overheads		2	
	3.3 Apportionment and Allocation of Overheads 3.3.1 Primary Distribution of Overheads	K1-K5	1	1-5
	3.3.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non-Reciprocal Methods		2	
	3.4 Absorption of Overheads		2	
	3.5 Presentation and Disclosure in Cost Statements		2	
4	Costing Systems 4.1 Process Costing - Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage and Abnormal Gain	K1-K5	4	1-5
	4.2 Joint and by Product Costing – Cost Accounting Standards – 19		3	
	4.3 Job Order Costing		3	
	4.4 Activity Based Cost Management - Features and Activity Analysis		3	
	4.5 Life-Cycle Costing		2	
5	Modern Cost Management Techniques 5.1 Lean Resources Management Techniques, Total Productive Maintenance, Throughput Accounting, Capacity Management and Analysis - Cost Accounting Standards – 2	K1-K5	7	1-5
	5.2 Business Process Improvement – Value Analysis, Value Engineering, Value Chain Analysis, Value-added Concepts, Process Analysis, Business Process Reengineering and Standardisation		8	

BOOKS FOR STUDY

Gupta MP & Gupta Ajai, *Cost and Management Accounting*, New Delhi: Sultan Chand & Sons, 2023

Jain S.P. and Narang K.L., *Advanced Cost Accounting*, New Delhi: Kalyani Publishers, 2017

BOOKS FOR REFERENCE

Arora M.N., *Cost Accounting: Principles and Practice*, New Delhi: S. Chand Publications, 2021

Maheshwari S.N., *Cost Accounting*, New Delhi: Sultan Chand & Sons, 2021

Reddy T.S and Hari Prasad Reddy Y., *Cost Accounting*, Chennai: Margham Publications, 2020

K Saxena, *Strategic Cost Management and Performance*, Sultan Chand & Sons, 2020
CMA Exam Review – Part I, Becker Professional Education Corporation

WEB SOURCES

www.accountingformanagement.com

www.zoominfo.com

www.icmai.in

JOURNALS

Journal of Cost Accounting

Journal of Cost Management

International Cost Management Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2 K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/CM24												
II	Course Title: COST MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	-	2	2	1	-	3	3	3	1	-
CO 2	3	3	3	-	2	1	-	-	3	3	3	3	2
CO 3	3	3	3	-	1	-	-	1	3	3	3	2	1
CO 4	3	3	3	3	3	3	3	3	3	3	3	2	1
CO 5	3	3	3	-	1	1	-	-	3	3	3	-	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

LEGAL AND REGULATORY ASPECTS OF BANKING

CODE: 23BF/MC/LB23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to understand the basic provisions of banking laws
- To acquaint students on the roles and responsibilities of Securities and Exchange Board of India
- To expose students to the legal rights, duties and obligations arising out of banking transactions
- To familiarize students with the lending policies of banks
- To provide an understanding of the emerging dimensions in the regulatory aspects of banking

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Outline the legal framework of banking	K1
CO2	Explain the impact of government policy and regulations on the banking industry	K2
CO3	Identify the legal reforms in the Banking Sector	K3
CO4	Analyse the loan disbursal process followed by different Banks	K4
CO5	Evaluate the recent developments in the banking sector	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Banking Regulation 1.1 Banking Regulation Act, 1949 - Definition of Banking, Licensing, opening of branches, Functions of Banks, Inspection	K1-K5	6	1-5
	1.2 Central Banking and role of RBI and their Functions		4	
2	Negotiable Instruments Act, 1881 2.1 Meaning and Characteristics of Promissory note, Bill of Exchange and Cheque	K1-K3	4	1-3
	2.2 Crossing and Endorsement of Cheques	K1-K5	3	1-5
	2.3 Payment and Collection of Cheques		3	

UNIT	CONTENT	CL	HRS	CO
3	Prevention of Money Laundering Act 2002 3.1 Salient features of the Act - Definition and Scope of Money Laundering – Survey, Search and Seizure	K1-K5	4	1-5
	3.2 Attachment - Powers to Arrest under the Act – Adjudication by the Adjudicating Authorities and Special Courts		3	
	3.3 Obligation of Banking Companies, Financial Institutions and Intermediaries		2	
	3.4 Other Obligations of Reporting Entities		1	
4	The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 (SARFAESI Act) 4.1 Applicability	K1-K3	1	1-5
	4.2 Objectives, Formation and Role of the Act	K1-K4	6	1-4
	4.3 Process and Documentation	K1-K5	5	1-5
5	Loan Approval Process & Disbursement 5.1 Overview of CIBIL and Credit Score - Importance of CIBIL Score in Loan Approval Process	K1-K5	3	1-5
	5.2 CIBIL Report - Loan Rejection and Disputes		4	
	5.3 Duties and Responsibilities of Banks in Loan Disbursement		3	

BOOKS FOR STUDY

Sundaram & Varshney P N, *Banking Law & Practice*, New Delhi: Sultan Chand & Sons, 2021
Jaiswal, B., *Banking Operations Management*. New Delhi: Vikas Publication, 2020

BOOKS FOR REFERENCE

K C Shekhar & Lekshmy Shekhar, *Banking Theory and Practice*, New Delhi: Vikas Publication, 2022
Radhakrishnan, S. A., *Bank Management*, Chennai: Margham Publications, 2021
Santhanam, B., *Banking and Financial System*, Chennai: Margham Publications, 2021
Santhanam, B., *Banking Theory, Law & Practice*. Chennai: Margham Publications, 2021
K B Asthana, *The SARFAESI Act 2002 & Indian Banking System*, IP Innovative Publication Pvt. Ltd., 2021
Dr. Gurusamy S, *Banking Theory Law and Practice*, Chennai: Vijay Nicole Imprints Pvt. Ltd, 2019

WEB SOURCES

<http://www.indilaw.com/index.php>
<https://legislative.gov.in/>
<https://indiakanoon.org>

JOURNALS

Journal of Banking and Finance
Indian Journal of Finance and Banking
International Journal of Banking, Accounting and Finance
Journal of Money, Credit and Banking

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	28

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/LB23												
II	Course Title: LEGAL AND REGULATORY ASPECTS OF BANKING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	2	3	2	3	3	2	3	3	3	3	2	2
CO 3	3	3	3	1	2	3	2	3	3	3	3	2	2
CO 4	3	2	3	2	3	3	3	3	3	3	3	2	2
CO 5	3	3	3	1	3	3	3	3	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023 - 2024)

INTERNSHIP

CODE: 23BF/MC/IN22

CREDITS : 2

Internship is an integral part of the B.Com – Banking, Finance and Entrepreneurship Programme. To enable students to face the challenges of the business world, Internship Training is important. It plays a vital role in implementing theoretical knowledge and gaining practical exposure from the industry/organisation.

OBJECTIVES OF INTERNSHIP

- To integrate theory and practice
- To gain working experience in a real working environment
- To engage in teams for execution of work assigned
- To widen their social and cultural experience
- To expose students to a wide spectrum of professional services in the field of commerce
- To gain insight on organization structure and its roles and responsibilities
- To help students identify and develop professional skills

GUIDELINES:

- The student will undergo practical training in a reputed organization for 100 hours
- The student is expected to work in the Banking Sector
- The student is required to maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
Hours worked, Nature of work performed, Signature of the supervisor
- A final consolidated report to be submitted to faculty advisor

PREPARATION OF FINAL REPORT

The report should have a minimum of 50 pages detailing the work assigned and performed in the organization - Introduction of the Organisation / Practical Aspects of Internship - Experience/Suggestions/Challenges/Conclusion

PATTERN OF EVALUATION

Log book 20 marks

Project report & viva 80 marks

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023 - 2024)

STRATEGIC FINANCIAL PLANNING

CODE: 23BF/AC/SF25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to understand the relevance of strategic planning in redrafting of financial statements for financial analysis
- To introduce students to the strategic planning models
- To familiarise students with the forecasting techniques
- To enable students to understand, analyse and interpret the data using various statistical tools and management techniques
- To enable students in the preparation of budgets

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Outline the process of strategic planning	K1
CO2	Illustrate the future cash flows and financial position	K2
CO3	Apply the forecasting techniques and forecast the Financial Position of a business concern	K3
CO4	Examine and report the trend using secondary data	K4
CO5	Assess and prepare projection statements and budgets	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Strategic Planning	K1-K3	2	1-3
	1.1 Strategic Planning		2	
	1.2 Strategic Factors	K1-K5	2	1-5
	1.3 Long-term Vision and Goals - Alignment of Tactics with Long-term Strategic Goals		4	
2	Financial Planning and Analysis	K1-K4	5	1-4
	2.1 Proforma Financial Statements			

UNIT	CONTENT	CL	HRS	CO
	2.2 Statement of Cash Flows and Projections	K1-K5	4	1-5
	2.3 Redrafting Financial Statements for Ratio Analysis, Dupont Analysis		6	
3	Budgets and Budgeting	K1-K2	2	1-2
	3.1 Meaning and Objectives - Operations and Performance Goals			
	3.2 Budget Process - Characteristics of a Successful Budget Process – Resource Allocation	K1-K4	4	1-4
	3.3 Classification of Budgets and its Preparation – Operational Budgets, Financial Budgets, Master Budgets, Rolling Budgets, Flexible Budgets, Planning and Control Budgets	K1-K5	6	1-5
	3.4 Types of Budgeting - Responsibility Budgeting, Activity Based Budgeting, Zero-based Budgeting		3	
4	Forecasting Techniques	K1-K5	4	1-5
	4.1 Simple Linear Regression Analysis - Regression Equation and Estimation – Multiple Regression			
	4.2 Learning Curve Analysis		2	
	4.3 Expected Value		2	
	4.4 Probability Theory		2	
5	Analysis of Time Series	K1-K2	2	1-2
	5.1 Utility and Components of Time Series			
	5.2 Method of Measuring Trend	K1-K5	7	1-5
	5.3 Measurement of Seasonal Variation		6	

BOOKS FOR STUDY

Tulsian, TusharTulsian & Bharat Tulsian, *Business Statistics*, New Delhi: S.Chand Publishing, 2023
Gupta S.P., *Statistical Methods*, New Delhi: Sultan Chand and Sons, 2019
Maheshwari S N, *Principles of Management Accounting*, New Delhi: Sultan Chand and Sons, 2021
Fred David R, *Strategic Management*, New Delhi: Pearson Education, 2022

BOOKS FOR REFERENCE

Pillai R.S.N. & Bagavathy,V., *Statistics Theory and Practice*, New Delhi: S.Chand Publishing, 2019
S C Gupta, *Fundamental of Statistics*, New Delhi: Himalaya Publishing House, 2018
Reddy T S, A Murthy, *Management Accounting*, Margham Publications, 2021
Agarwal Y.P., *Statistical Method-Concept, Applications and Computations*, New Delhi: Sterling Publishers Ltd., 2012
CMA Exam Review Part I, Becker Professional Education Ltd. 2022

WEB SOURCES

<https://libguides.jcu.edu.au/statistics/training>

www.datasciencescentral.com

www.inomics.com

JOURNALS

International Journal of Statistics and Management Systems

Journal of Management

Annals of Statistics

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2 K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/AC/SF25												
II	Course Title: STRATEGIC FINANCIAL PLANNING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	2	1	1	3	3	3	1	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	1	1
CO 3	3	3	3	3	3	3	1	2	3	3	3	1	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	1	1
CO 5	3	3	3	3	3	2	1	1	3	3	3	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A./ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23BF/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.V.A. /B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

CORPORATE FINANCIAL REPORTING

CODE: 23BF/MC/CR34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an understanding of financial reporting concepts
- To introduce students to the valuation of assets.
- To enable students to assess and measure the financial performance
- To provide comprehensive knowledge on integrated reporting.
- To expose the students to the practical applicability of performance measures.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	define key financial reporting concepts and terminologies.	K1
CO2	summarize the components of financial statements and their relationships.	K2
CO3	prepare financial statements and present financial data in compliance with accounting standards.	K3
CO4	analyse a company's financial performance to evaluate its financial health.	K4
CO5	evaluate the impact of accounting choices, estimates, and judgments on financial reporting,	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Company Financial Statements			
	1.1 Income Statement – Uses – Components – Presentation and Limitations	K1-K3	4	1-3
	1.2 Statement of Changes in Equity – Equity Components and Classifications	K1-K4	4	1-4
	1.3 Financial Position Statement – Purposes and Uses – Components – Preparation and Articulation	K1-K5	5	1-5
	1.4 IFRS Reporting	K1-K3	2	1-3

UNIT	CONTENT	CL	HRS	CO
2	Integrated Reporting			
	2.1 Meaning, Objectives and Purpose	K1-K2	2	1-2
	2.2 Elements of Integrated Reports	K1-K4	5	1-4
	2.3 Benefits and Challenges	K1-K3	3	1-3
3	Valuation of Assets and Liabilities			
	3.1 Asset Valuation – Receivables, Inventory, Investments, Fixed Assets & Intangible Assets	K1-K4	5	1-4
	3.2 Valuation of Liabilities - Accounts Payable, Long-Term Debt, Stockholders' Equity and Retained earnings		7	
	3.3 Tax Accounting – Tax Accounting Standards	K1-K5	3	1-5
4	Financial Performance			
	4.1 Value Creation Concept and Process	K1-K4	2	1-4
	4.2 Revenue Recognition – Criteria for Revenue Recognition		5	
	4.3 Income Measurement	K1-K5	3	1-5
5	Responsibility Accounting and Performance Reporting			
	5.1 Types of Responsibility Centres – Transfer Pricing – Reporting to Organisational Segments	K1-K4	5	1-4
	5.2 Performance Measures – Product Profitability Analysis - Business Unit Profitability Analysis – Customer Profitability Analysis – Return on Investment – Residual Income – Investment Base Issues – Key Performance Indicators KPIs) – Balanced Score card.	K1-K5	10	1-5

BOOKS FOR STUDY

Gupta R.L and Radhaswamy M, *Advanced Accounting (Vol. II)*, New Delhi: Sultan Chand and Sons, 2021

Herman Aguinis, *Performance Management*, New Delhi: Pearson Prentice Hall, 2021

Sanjay Dhamija, *Financial Reporting and Analysis*, New Delhi: Sultan Chand and Sons, 2021

BOOKS FOR REFERENCE

Jain S. P and K. L Narang, *Advanced Accountancy*, New Delhi: Kalyani Publishers, 2021

T.S.Reddy and Dr.A. Murthy, *Corporate Accounting*, Chennai: Margham Publications, 2021

Maheshwari S. N and Suneel K Maheshwari, *Advanced Accounting*, Noida: Vikas Publishing House, 2021

Shukla MC, Grewal, *Advanced Accounts*, New Delhi: S.Chand & Co., 2016

Maheshwari S. N, *Advanced Accounting*, New Delhi: S.Chand & Co., 2021

WEB SOURCES

www.icaai.org

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www.accaglobal.com

JOURNALS

Journal of the Institute of Chartered Accountants of India

International Journal of Management and Financial Accounting

Journal of Accounting and Finance: Research Development Association,

JaipurJournal of Finance - Sage

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2 K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/CR34												
III	Course Title: CORPORATE FINANCIAL REPORTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	2	3	3	-	-	3	3	1	-	-
CO 2	3	3	2	2	3	3	-	2	3	3	1	-	2
CO 3	3	3	2	1	3	3	2	2	3	3	1	2	2
CO 4	3	3	2	2	3	3	2	3	3	3	1	2	3
CO 5	3	3	2	2	3	3	2	-	3	3	1	2	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

RETAIL AND CORPORATE BANKING

CODE: 23BF/MC/RC33

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To expose students to the importance of retail banking and its functions.
- To educate students on different traditional and modern banking products and services
- To provide an insight into the process of SME banking finance.
- To enable students understand the importance and services of corporate banking.
- To provide a comprehensive view on technological advancements in banking field.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list the key terms related to retail and corporate banking	K1
CO2	outline the functions and roles of retail and corporate banks in the economy and its contribution to financial intermediation.	K2
CO3	apply the principles of credit analysis to assess the credit worthiness of retail and corporate customers	K3
CO4	analyse the risks associated with retail and corporate banking operations.	K4
CO5	evaluate the technological advancements in retail and corporate banks considering customer needs and market trends.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Retail Banking			
	1.1 Retail Banking – Origin, Meaning, Nature and Importance	K1-K3	3	1-3
	1.2 Dimensions of Retail Banking	K1-K4	3	1-4
	1.3 Functions and Role of Retail Banking	K1-K5	4	1-5
2	Retail Banking Products and Operations			
	2.1 Types of Products	K1-K4	4	1-4
	2.2 Retail Banking Operations– Bank originated, Customer originated, Transactions originated	K1-K5	3	1-5
	2.3 Importance of Retail Banking in Indian Economy	K1-K3	3	1-3

UNIT	CONTENT	CL	HRS	CO
3	Small and Medium Enterprises Banking Services			
	3.1 Sources and Modes of SME Finance	K1-K4	4	1-4
	3.2 Operational Procedure	K1-K5	3	1-5
	3.3 Recovery of finance		3	
4	Corporate Banking			
	4.1 Meaning, Evolution and Importance of Corporate Banking	K1-K3	4	1-3
	4.2 Services of Corporate Banking – Cash Management, Debt Management, Factoring, Custodial Services, Trade Services, Offshore Services etc.	K1-K5	8	1-5
5	Recent Developments in Retail and Corporate Banking			
	5.1 Importance of Institutional Deposits vis-a-vis Retail Deposits	K1-K3	3	1-3
	5.2 Issues and Challenges in Retail and Corporate Banking	K1-K4	3	1-4
	5.3 Technological Changes in Retail and Corporate Banking	K1-K5	4	1-5

BOOKS FOR STUDY

Natarajan, R., *Corporate Banking*, Chennai: Create Space Independent Publishing Platform, 2017

Agarwal, O., *Fundamentals of Retail Banking*. New Delhi: Himalaya Publishing House, 2018

BOOKS FOR REFERENCE

Bihari, S. C., *Retail Banking Challenges and Latest Trends in India*. New Delhi: Himalaya Publishing House, 2019

Indian Institute of Banking and Finance, *Retail Banking*, New Delhi: Macmillan Education, 2017

Itenderson, J., *Retail and Digital Banking: Principles and Practices*, London: Kogan Page, 2018

Krishnan, S., *Power of Mobile Banking*. USA: Wiley, 2018

Pond, K., *Retail Banking*. UK: Gosbrook Professional Publishing, 2015

Suresh, P., *Management of Banking and Financial Services*. Chennai: Pearson, 2014

WEB SOURCES

<https://au.indeed.com/career-advice/finding-a-job/what-is-corporate-banking>

https://www.banktrack.org/download/what_is_corporate_banking_/what_is_corporate_banking

<https://www.investopedia.com/terms/r/retailbanking.asp>

JOURNALS

Journal of Banking and Finance

International Journal of Bank Marketing

Journal of Money, Credit and Banking

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/RC33												
III	Course Title: RETAIL AND CORPORATE BANKING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	1	1	-	3	1	1	1	-
CO 2	3	3	3	3	3	2	3	-	3	2	2	3	1
CO 3	3	3	2	3	3	3	3	2	3	2	3	3	2
CO 4	3	3	2	3	3	2	2	2	3	3	3	2	2
CO 5	3	3	2	3	3	3	3	2	3	1	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023 – 2024)

MANAGEMENT PRINCIPLES AND APPLICATIONS

CODE: 23BF/MC/MP33

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To expose students to the Management principles
- To provide students a comprehensive view on the planning, communication, leadership styles.
- To acquaint students with the need for planning to aid in proper decision making
- To develop the ability to make informed decisions by evaluating options and consequences.
- To familiarise students with the current management practices.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	explain management functions and theories that have shaped the field of management	K1
CO2	relate the functions and roles of managers in different organisational levels and settings	K2
CO3	apply the management principles in business	K3
CO4	analyse the impact of various management styles	K4
CO5	evaluate the effectiveness of relevant tools in solving complex management problems.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Overview of Management			
	1.1 Meaning – Science or Art, Process, Managerial Functions and Roles	K1-K3	3	1-3
	1.2 Approaches to Management – Classical, Quantitative, Behavioral, Contemporary	K1-K4	2	1-4
	1.3 Management Thought – FW Taylor, Henry Fayol, Elton Mayo, Peter Drucker, Michael Porter, CK Prahalad	K1-K5	4	1-5
	1.4 Trends and Challenges of Management in Global Scenario		3	
2	Planning			
	2.1 Planning – Meaning, Types and Process	K1-K3	3	1-3

UNIT	CONTENT	CL	HRS	CO
	2.2 Business Environment Analysis – Meaning, Types and Techniques (SWOT, PESTLE, BCG Matrix)	K1-K5	4	1-5
	2.3 Decision Making – Meaning, Types and Techniques	K1-K4	3	1-4
3	Organising 3.1 Meaning and Types of Organisation	K1-K2	2	1-2
	3.2 Process of Organising	K1-K4	2	1-4
	3.3 Organisation Structure and Chart- McKinsey's 7S Model	K1-K5	3	1-5
	3.4 Span of Control, Departmentation, Delegation and Decentralization	K1-K4	3	1-4
4	Staffing and Directing 4.1 Staffing – Recruitment, Selection, Induction, Training and Development	K1-K3	2	1-3
	4.2 Motivation – Meaning and Theories (Maslow – Needs Theory, Herzberg – Two Factor Theory)	K1-K5	3	1-5
	4.3 Leadership – Meaning, Styles and Theories (Trait, Likert Behavioral, Managerial Grid, Fiedler Situational)		2	
	4.4 Management Styles- Management by Objectives, Management by Exception, Management by Control		2	
	4.5 Communication – Meaning, Types, Process and Barriers	K1-K3	2	1-3
5	Control 5.1 Meaning and Importance of Control	K1-K2	2	1-2
	5.2 Process of Control Mechanism - MIS	K1-K5	5	1-5
	5.3 Control Techniques – PERT, CPM, ROI, Budgetary Control		2	

BOOKS FOR STUDY

Gupta, C. B., *Business Management*, New Delhi, Sultan Chand and Sons, 2018
H. Koontz and Weihrich, H., *Essentials of Management*, Pearson Education, 2020

BOOKS FOR REFERENCE

Robbins, S. and Coulter, M., *Management*, New Delhi: Pearson Education, 2020
Robbins, S. P. Decenzo, D.A., Bhattacharya, S. and Agrawal, M.M., *Fundamentals of Management: Essentials, Concepts and Applications*, New Delhi: Pearson Education, 2019
Drucker P.F., *Practice of Management*, London: Mercury Books, 2016
Singh, B.P. and Singh, A.K., *Essentials of Management*, Chennai: Excel Books, 2017
Chhabra, T.N., *Essentials of Management*, New Delhi: Sun India, 2015
Griffin, R.W., *Management Principles and Application*, Noida: Cengage Learning, 2017

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JOURNALS

European Journal of Business Management

International Journal of Management

ReviewsAcademy of Management Journal

Management Science

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/MP33												
III	Course Title: MANAGEMENT PRINCIPLES AND APPLICATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	-	3	1	3
CO 2	3	3	3	3	3	3	1	1	3	1	3	1	3
CO 3	3	3	3	3	3	3	1	1	3	1	3	1	3
CO 4	3	3	3	3	3	3	-	1	3	-	3	-	2
CO 5	3	3	3	3	3	3	3	1	3	-	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

ENTREPRENEURSHIP ECOSYSTEM

CODE: 23BF/MC/EE33

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide an understanding of the concept of entrepreneurship.
- To deliver knowledge on the support mechanisms available for entrepreneurs.
- To familiarise students with various factors influencing entrepreneurship.
- To acquaint students on the strategies to overcome obstacles in business.
- To enable students develop a business plan for a new start-up.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	explain the various components in an entrepreneurial ecosystem	K1
CO2	relate the interdependence of different elements of an entrepreneurial ecosystem which fosters innovation.	K2
CO3	plan the available sources of finance supporting entrepreneurs	K3
CO4	analyse the challenges and barriers that hinder the growth of an entrepreneurial ecosystem.	K4
CO5	interpret a comprehensive business plan for building a sustainable entrepreneurial ecosystem.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Entrepreneur - Meaning, Definition, Characteristics, Types and Functions of an Entrepreneur, Theories of Entrepreneurship, Role of Socioeconomic Environment.	K1-K3	3	1-3
	1.2 Role of Entrepreneurship in the Growth of Economic Development	K1- K4	2	1-4
	1.3 Entrepreneurship Development - Barriers (Internal and External)		3	
	1.4 Factors Influencing Entrepreneurship Development	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
2	Creating Entrepreneurial Venture			
	2.1 Generating Business idea, Sources of Innovation, Generating Ideas, Creativity and Entrepreneurship	K1-K5	4	1-5
	2.2 Challenges in Managing Innovation, Entrepreneurial Strategy, Business Planning Process	K1-K4	2	1-4
	2.3 Drawing Business Plan, Business Plan Failures	K1-K5	2	1-5
	2.4 Promotion of a Venture, External Environmental Analysis- Economic, Social and Technological		2	
	2.5 Competitive Factors, Legal Requirements for Establishment of New Unit and Raising of Funds, Venture Capital Sources and Documentation Required		3	
3	Entrepreneurial Finance			
	3.1 Financial Planning – Meaning, Need and Process	K1-K4	2	1-4
	3.2 Sources Of Finance – Internal and External		2	
	3.3 Project Cost Analysis	K1-K5	3	1-5
	3.4 Venture Capital Financing, Angel Investors, Lease Financing, Crowd Funding		3	
4	Small Scale Enterprises			
	4.1 Small Scale Industries, Tiny Industries, Ancillary Industries, Cottage Industries	K1-K2	2	1-2
	4.2 Product Range, Capital Investment, Ownership Patterns	K1-K4	2	1-4
	4.3 Importance And Role Played By SSE In the Development Of The Indian Economy	K1-K3	3	1-3
	4.4 Problems Faced By SSEs – Steps Taken to Solve the Problems – Policies Governing SSEs	K1-K4	2	1-4
	4.5 Sickness In SSEs – Meaning and Definition of a Sick Industry, Causes Of Industrial Sickness, Preventive and Remedial Measures for Sick Industries	K1-K5	2	1-5
5	Government Initiatives in Promoting Entrepreneurship			
	5.1 Financial Assistance to Entrepreneur – Subsidies and Incentives	K1-K5	2	1-5
	5.2 MSME Policy in India	K1-K4	2	1-4
	5.3 State Development Promotion Agencies: District Industries Centers (Dic), Sipcot	K1-K5	2	1-5
	5.4 Small Industries Service Institute of India (SISI)		2	

BOOKS FOR STUDY

Khanka S S, *Entrepreneurial Development*, New Delhi: S.Chand & Co, 2020

Gupta C B & M.R.Sreenivasan, *Entrepreneurial Development*, New Delhi: Sultan Chand & Sons, 2017

Leach Chris, W Ronald, *Entrepreneurial Finance*, New Delhi: Cengage Learning, 2014

BOOKS FOR REFERENCE

Kumar S.A. & Poornima S.C., *Entrepreneurship Development*, New Delhi: New Age International Publishers, 2021
Yindenaba Jousha, *Entrepreneurial Finance for MSMEs: A Managerial Approach for Developing Markets*, New Delhi: Macmillan Publications, 2017
Vasant Desai, *Entrepreneurial Development*, New Delhi: Himalaya Publishing House, 2014
Steven Rogers, *Entrepreneur Finance: Finance and Business Strategy for a Serious Entrepreneur*. New Delhi: Tata McGraw Hill Education, 2014
Gibbons Gary, *Entrepreneur Finance: A Global Perspective*, New Delhi: Sage Publications, 2014
Alemany Lusía, *Entrepreneurial Finance: the Art and Science of Growing Ventures*, Cambridge: Cambridge University Press, 2018

WEB SOURCES

www.ocw.mit.edu.com
www.nptel.ac.in
www.xlri.com

JOURNALS

The Journal of Entrepreneurial Finance
Venture Capital Journal
International Small Business Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/EE33												
III	Course Title: ENTREPRENEURSHIP ECOSYSTEM												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	2	1	3	-	3	2	3
CO 2	3	3	2	3	3	3	3	1	3	1	3	3	3
CO 3	3	3	2	3	3	3	3	1	3	3	3	3	2
CO 4	3	3	2	3	3	3	3	1	3	-	3	3	3
CO 5	3	3	2	3	3	3	3	1	3	-	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

STRATEGIC EDGE ANALYSIS

CODE: 23BF/AC/SE35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the relevance of information systems
- To create an awareness on data governance.
- To acquaint students gain knowledge on innovative financial technologies.
- To provide knowledge on data analytics and data mining.
- To familiarise students with emerging trends in good governance practices

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Define the key principles and theories of data analytics	K1
CO2	Explain security control techniques	K2
CO3	Apply digital tools and techniques in problem solving	K3
CO4	Analyse the relevance of information systems	K4
CO5	Evaluate the data control measures	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Information Systems			
	1.1 Management Information and Control Systems	K1-K2	4	1-2
	1.2 Enterprise Resource Planning Systems	K1-K3	4	1-3
	1.2.1 Materials Requirement Planning and Manufacturing Resource Planning	K1-K4	3	1-4
	1.3 Enterprise Performance and Risk Management Systems and Models	K1-K5	4	1-5
2	Data Governance			
	2.1 Data Policies and Procedure	K1-K4	3	1-4
	2.2 Systems Development Life Cycle	K1-K5	3	1-5
	2.3 Data, Access and Security Controls		4	

UNIT	CONTENT	CL	HRS	CO
3	Financial Transformative Technologies			
	3.1 Cloud Computing	K1-K4	3	1-4
	3.2 Robotics Process Automation	K1-K5	4	1-5
	3.3 Data Innovation		3	
4	Data Analytics			
	4.1 Business Intelligence and Artificial Intelligence	K1-K4	3	1-4
	4.2 Data Mining	K1-K5	4	1-5
	4.3 Digital Tools - Production, Administration and Marketing		4	
	4.4 Data Visualisation and Business Eco System		4	
5	Data Controls and Security Measures			
	5.1 Components and Types of Internal Controls	K1-K3	3	1-3
	5.2 Application and Transaction Controls	K1-K4	3	1-4
	5.3 Network Controls – Backup and Restoration Controls		3	
	5.4 Business Continuity Planning	K1-K5	3	1-5
	5.5 Crisis Management Protocol		3	

BOOKS FOR STUDY

Albright, Christian and Winston, Wayne L., *Business Analytics: Data Analysis and Decision Making*, New Delhi: Cengage Learning, 2017

Evans, James R., *Business Analytics*, New Delhi: Pearson Publications, 2012

BOOKS FOR REFERENCE

Cox, Emmett, *Retail Analytics: The Secret Weapon*, New Jersey: Wiley and Sons, 2011

Erik, Van Vulpen and Green, David, *The Basic Principles of People Analytics*, Kolkata: Createspace Independent Publishing, 2016

WEB SOURCES

www.irpdf.com_Predictive_Analytics_for_Human_Resources.pdf

<http://alqashi.com/book/book17.pdf>

JOURNALS

Drake Business Review

Journal of Business Analytics

International Journal of Business Analytics

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/AC/SE35												
III	Course Title: STRATEGIC EDGE ANALYSIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	-	-	3	3	3	3	2
CO 2	3	3	2	3	3	2	2	-	3	3	3	2	2
CO 3	3	3	2	2	3	3	1	-	3	3	3	1	2
CO 4	3	3	2	3	3	3	1	-	3	3	3	1	2
CO 5	3	3	2	3	3	2	2	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

FINANCIAL MANAGEMENT

CODE: 23BF/MC/FM44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize students with the principles and practices of financial management
- To provide students a sound conceptual frame work for financial decision-making.
- To help students to know about allocation of financial resources which maximize returns.
- To assess working capital requirements of a business concern.
- To gain knowledge on the strategies that increase profitability by managing cost.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	recall and define key financial management terms and concepts	K1
CO2	explain the importance of cost of capital	K2
CO3	apply financial management techniques for making efficient business decisions.	K3
CO4	measure the various leverages of the organisation	K4
CO5	evaluate investment decisions with the help of appropriate capital budgeting techniques.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial Management			
	1.1 Financial Management – Meaning, Definition and Features	K1-K3	2	1-3
	1.2 Time Value of Money-Concepts and Applications	K1-K4	2	1-4
	1.2.1 Computation of Time value of Money		2	
	1.2.1.1 Compounding Techniques	K1-K5	4	1-5
	1.2.1.2 Present Value Techniques			
2	Capital Structure			
	2.1 Meaning and Significance of Capital Structure	K1-K3	4	1-3

UNIT	CONTENT	CL	HRS	CO
	2.2 EPS-EBIT Analysis	K1-K5	6	1-5
	2.3 Leverages - Meaning and Importance - Types of Leverages	K1-K4	5	1-4
3	Cost of Capital			
	3.1 Meaning and Significance	K1-K2	2	1-2
	3.2 Cost of Equity and Retained Earnings	K1-K5	3	1-5
	3.3 Cost of Debt – Redeemable, Cost of Preference – Redeemable		4	
	3.4 Computation of Overall Cost of Capital - Book Value and Market Value, Weighted Average Cost of Capital		4	
	3.5 Term Structure of Interest Rates		2	
4	Working Capital Management	K1-K5		1-5
	4.1 Working Capital – Meaning, Definition and Estimation of Working Capital Requirement		5	
	4.2 Cash Management, Marketable Securities Management, Accounts Receivable Management		4	
	4.3 Inventory Management		3	
	4.4 Short-term Credit Management		3	
5	Capital Budgeting	K1-K5		1-5
	5.1 Stages of Capital Budgeting – Incremental Cash Flows, Income Tax considerations, Evaluating Uncertainty.		4	
	5.2 Methods of Capital Investment Analysis - Pay Back Period, Net Present Value and Internal Rate of Return		6	

BOOKS FOR STUDY

Khan, M.Y. and P.K. Jain. *Basic Financial Management*, New Delhi: Tata McGraw Hill, 2017
Dr. A. Murthy, *Financial Management*, Chennai: Margham Publications, 2021

BOOKS FOR REFERENCE

Chandra, . *Fundamentals of Financial Management*, New Delhi: Tata McGraw Hill, 2014
Van Horne, James C. *Financial Management and Policy*, New Delhi: Prentice Hall of India, 2011.
Maheshwari, S. N. *Financial Management*, New Delhi: Vikas Publications, 2013
Pandey, I. M. *Financial Management*, New Delhi: Vikas Publications, 2016
Ravi M. Kishore. *Taxmann's Financial Management*, New Delhi: Taxmann, 2016

WEB SOURCES

www.mdpi.com/
www.indianjournaloffinance.co.in/
www.financeindia.com

JOURNALS

Journal on Risk and Financial
ManagementIndian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/FM44												
IV	Course Title: FINANCIAL MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	1	3	3	3	3	3
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CO 3	3	3	3	2	2	3	3	1	2	2	3	3	3
CO 4	3	2	2	3	3	3	1	1	3	3	2	1	3
CO 5	3	3	3	3	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

HUMAN CAPITAL MANAGEMENT

CODE: 23BF/MC/HC43

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To acquaint the students with the concepts and emerging trends in human resource management.
- To educate the students on the managerial, operative and maintenance aspects of the human resources in an organization.
- To familiarize the students with the processes and mechanism of managing human capital
- To impart knowledge on recruitment and selection process.
- To enable students to analyse the process and methods of performance appraisal.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	define fundamental concepts in human resource management.	K1
CO2	explain the strategic role of HR in organisations	K2
CO3	apply HR strategies to match job roles with appropriate candidates.	K3
CO4	analyse the effectiveness of training programme and its impact on organizational performance.	K4
CO5	critically examine the HR challenges prevailing in organisations.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Scope and Objectives of Human Resource Management	K1-K3	2	1-3
	1.2 Significance and Functions of Human Resource Management	K1-K4	2	1-4
	1.3 Emerging Challenges of Human Resource Management- Workforce Diversity, Downsizing, Work Life Balance	K1- K5	4	1-5
	1.4 Recent Trends in Human Resource Management		2	
2	Acquisition of Human Resources			
	2.1 Objectives, Characteristics and Process of HR Planning	K1-K4	4	1-4

UNIT	CONTENT	CL	HRS	CO
	2.2 Job Analysis, Job Description, Job Specification	K1-K5	4	1-5
	2.3 Recruitment – Concept, Sources	K1-K4	4	1-4
	2.3 Selection Procedure, Testing, Placement and Induction	K1-K5	4	1-5
3	Training and Development 3.1 Concept and Importance, Identifying Training and Development Needs, Designing Training Programme	K1-K5	4	1-5
	3.2 Training and Development Methods	K1-K4	4	1-4
	3.3 Evaluating Training Effectiveness	K1-K5	2	1-5
4	Performance Appraisal 4.1 Nature and Importance of Performance Appraisal	K1-K3	3	1-3
	4.2 Process and Methods of Performance Appraisal	K1-K5	3	1-5
	4.3 Performance Management, Performance Counseling		2	
5	Employee Maintenance 5.1 Employees Welfare– Health, Safety and Social Security	K1-K5	4	1-5
	5.2 Grievance Handling and Redressal – Vigil Mechanism and Prevention of Sexual Harassment		4	

BOOKS FOR STUDY

Aswathappa K. *Human Resource Management*, New Delhi: Tata McGraw Hill, 2020
 Gupta, C.B. *Human Resource management*, New Delhi: Sultan Chand, 2021

BOOKS FOR REFERENCE

Flippo V. Edwin. *Personnel Management*. New Delhi: Tata McGraw Hill, 2017
 Mamoria, C.B. *Personnel Management*. Mumbai: Himalaya Publications, 2017
 Prasad, L.M. *Human Resource management*. New Delhi: Sultan Chand & Sons, 2020
 John Bratton and Jeffery Gold *Human Resource Management Theory and Practice*, New Delhi: Macmillan Publication, 2015

WEB SOURCES

www.hrcouncil.ca/hr-toolkit/planning-strategic.cfm
www.hrwale.com/recruitment/88-2/
www.educationobserver.com/forum/showthread.php?tid=12165anagementhelp.org/training/

JOURNALS

International Journal of Human Resource Management
 The Human Resource Management Review
 Human Resource Management International Digest

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/HC43												
IV	Course Title: HUMAN CAPITAL MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	1	3	3	3	3	3	3	3	3	3	1	3
CO 3	3	3	3	3	3	3	2	3	3	3	3	2	3
CO 4	3	3	3	3	3	3	1	3	3	3	3	1	3
CO 5	2	3	3	3	3	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

ACCOUNTING FOR DECISION MAKING

CODE: 23BF/MC/AD43

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to prepare and analyse financial statements
- To equip students with tools used for measuring financial performance
- To familiarise students on forex management
- To apply marginal costing techniques in decision making.
- To acquaint students with the importance of standard costing as a cost control technique

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	recall and define accounting concepts which influence business decisions.	K1
CO2	explain the relationship between cost, sales volume and profit	K2
CO3	apply the financial concepts to interpret financial statements and record effects of inflation in accounting	K3
CO4	analyse the financial statement for measuring financial performance.	K4
CO5	evaluate the standards and causes of variance in costing	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Financial Statement Analysis 1.1 Meaning and Process of Financial Statement Analysis	K1-K4	3	1-4
	1.2 Objectives, Types and Procedure for Analysis and Interpretation of Financial Statements	K1-K5	3	1-5
	1.3 Tools of Financial Statement Analysis – Comparative Statement Analysis, Common Size Statement Analysis and Trend Analysis		4	
2	Ratio Analysis 2.1 Liquidity, Activity, Profitability and Market Value Ratios	K1-K5	4	1-5
	2.2 Profitability Analysis using Ratios - Income Measurement Analysis, Revenue Analysis, Cost of Sales Analysis, Expense Analysis, Variation Analysis		6	

UNIT	CONTENT	CL	HRS	CO
3	Marginal Costing 3.1 Marginal Costing – Meaning and Definition	K1-K2	1	1-2
	3.2 Cost-Volume-Profit Analysis	K1-K5	3	1-5
	3.3 Application of Marginal Costing in Decision Making - Special Orders and Pricing, Make or Buy, Sell or Process Further, Add or Drop a Segment, Capacity Considerations, Profit Performance and Alternative Operating Levels		6	
4	Forex Management 4.1 Impact of Foreign Operations	K1-K2	1	1-2
	4.2 Effects of Changing Prices and Inflation	K1-K5	1	1-5
	4.3 Impact of Changes in Accounting Treatment		1	
	4.4 Value and Income – Accounting and Economic Concepts		4	
	4.5 Earnings Equality		3	
5	Standard Costing and Variance Analysis 5.1 Meaning of Standard Cost and Standard Costing, Advantages, Limitations and Application	K1-K4	2	1-4
	5.2 Variance Analysis – Material, Labour, Overhead and Sales Variances	K1-K5	5	1-5
	5.3 Planning and Control Variances, Investigation of Variances, Revision Variances and Reconciliation of Variances		5	

BOOKS FOR STUDY

Maheshwari, S.N. *Principles of Management Accounting*. New Delhi: Sultan Chand, 2021
 Reddy T.S. and A Murthy, *Management Accounting*, Chennai: Margham Publications, 2021

BOOKS FOR REFERENCE

S N Maheswari, *Accounting for Management*, New Delhi: S.Chand & Sons, 2018
 Saxena & Vashist, *Advanced Cost and Management Accounting*: New Delhi: Sultan Chand & Sons, 2010
 Khan, M.Y Jain P.K, *Management Accounting*, New Delhi: Tata McGraw Hill, 2013

WEB SOURCES

www.icaai.org
www.icma.com
www.aicpa.org

JOURNALS

International Journal of research in Commerce and Management
 Research and Journal of Management Accounting
 Management Accounting Research Journal
 Indian Journal of Finance

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2K4 questions (Only Problems) Internal Choice
D	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/AD43												
IV	Course Title: ACCOUNTING FOR DECISION MAKING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	1	3	3	3	3	3
CO 2	3	2	3	3	2	3	3	1	3	2	3	3	3
CO 3	3	3	3	2	3	3	3	1	3	3	2	3	3
CO 4	3	3	3	3	3	3	2	1	3	3	3	2	3
CO 5	3	2	3	3	2	3	3	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

INDIAN FINANCIAL SYSTEM

CODE: 23BF/MC/IF43

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To acquaint students with the functioning and importance of financial institutions and financial markets
- To expose students to the different types of financial services.
- To familiarise students with the depository and non-depository financial institutions.
- To educate about the roles of intermediaries and its regulatory bodies.
- To expose students to the governing bodies of Indian financial system.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	recall the key components and participants of the Indian financial system	K1
CO2	explain the functions and roles of financial markets	K2
CO3	identify the different financial institutions involved as intermediaries in the financial structure.	K3
CO4	examine the various financial services provided by institutions.	K4
CO5	evaluate the scope of different financial services	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Indian Financial System-Meaning, Characteristics, Significance and Components, Challenges and Growth	K1-K4	4	1-4
	1.2 Financial Markets – Importance, Characteristics and Classification	K1-K5	3	1-5
	1.3 Financial Institutions – Functions and Structure	K1- K5	3	1-5
2	Financial Markets			
	2.1 Types of Financial Markets	K1-K3	2	1-3

UNIT	CONTENT	CL	HRS	CO
	2.2 Market Efficiency	K1-K5	1	1-5
	2.3 Capital Market – Functions, Instruments, Organisation and Mechanism		2	
	2.3.1 Primary Market – Concept, Features, Functions, Instruments, Organisation and Mechanism – Initial Public Offer, Follow on Public Offer, Rights Issue, Private Placement, Preferential Issues, Bonus Issues, Book-Building, Global Depository Receipts		5	
	2.3.2 Secondary Market – Functions, Methods of Issue in the Secondary Market		2	
3	Financial Institutions			
	3.1 Depository Institutions - Organizational setup – Commercial Banks and Industrial Finance	K1-K4	2	1-4
	3.2 Non-Depository Institutions – Mutual Fund, Chit Fund, Unit Trust of India – Insurance Companies (Both Life and Non-Life Insurance Companies)	K1-K5	3	1-5
	3.3 Investment Banks – Meaning and Types	K1-K4	2	1-4
4	Financial Services			
	4.1 Concept, Nature and Scope	K1-K3	1	1-3
	4.2 Merchant Banking – Meaning, Types, Responsibilities	K1-K4	6	1-4
	4.3 Leasing – Types of Leasing			
	4.4 Credit Rating – Meaning, Functions, CRISIL, ICRA, CARE	K1-K5	3	1-5
5	Regulatory and Promotional Aspects			
	5.1 Securities and Exchange Board of India Act, 1992 - Objects, Powers, Significance and Functions – Insider Trading, Adjudication and Penalties	K1-K5	5	1-5
	5.2 National Securities Depository Limited (NSDL), Central Depository Services Limited (CDSL), The Stock Holding Corporation of India Limited (SHCIL)		5	

BOOKS FOR STUDY

M Y Khan, *Indian Financial System*, New Delhi: Tata McGraw Hill Education, 2017
 Jeff Madhura, *Financial Institutions and Markets*, New Delhi: Cengage Learning India Private Limited, New Delhi, 2016

BOOKS FOR REFERENCE

Jayadeb Sarkhel, Seikh Salim, *Indian Financial System*, New Delhi: Tata McGraw Hill

Education, 2018

Sujatra Bhattacharyya, *Indian Financial System*, New Delhi: Oxford University Press, 2017

Machiraju, *Indian Financial System*, Noida: Vikas Publishing House, 2018

Srivastava R M and Divya Nigam, *Dynamics of Financial Markets and Institutions in India*, New Delhi: Excel Books, 2015

Bharati V.Pathak, *Indian Financial System*, New Delhi: Pearson Education, 2018

Akhan, J. A. *Non-banking Financial Companies (NBFCs) in India: Functioning & Reforms*, Chennai: New Century Publications, 2013

WEB SOURCES

www.sebi.gov.in

www.nism.ac.in

www.rbi.org.in

JOURNALS

International Journal of Banking and Finance

Research IOSR Journals

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/IF43												
IV	Course Title: INDIAN FINANCIAL SYSTEM												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	2	2	3	3	3	2	3
CO 2	3	3	3	3	3	2	2	2	3	3	3	2	3
CO 3	3	3	3	2	3	2	2	2	3	3	3	2	3
CO 4	3	3	3	2	2	2	2	2	3	3	3	2	3
CO 5	3	3	3	3	2	2	2	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNSHIP

CODE: 23BF/MC/IN42

CREDITS: 2

Internship is an integral part of the B.Com – Banking, Finance & Entrepreneurship Programme. To enable students to face the challenges of the business world, Internship Training is important. It plays a vital role in implementing theoretical knowledge and gaining practical exposure from the industry/organisation.

OBJECTIVES OF INTERNSHIP

- To integrate theory and practice
- To gain working experience in a real working environment
- To engage in teams for execution of work assigned
- To widen their social and cultural experience
- To expose students to a wide spectrum of professional services in the field of commerce
- To gain insight on organization structure and its roles and responsibilities
- To help students identify and develop professional skills

GUIDELINES:

- The student will undergo practical training in a reputed organization for 30 hours
- The student is expected to work in the Finance Sector.
- The student is required to maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
Hours worked, Nature of work performed, Signature of the supervisor
- A final consolidated report to be submitted to faculty advisor

Preparation of Final Report

The report should have a minimum of 50 pages detailing the work assigned and performed in the organization - Introduction of the Organisation/ Practical Aspects of Internship - Experience/Suggestions/Challenges/Conclusion

Pattern of Evaluation

Log book 20 marks

Project report & viva 80 marks

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

FINANCIAL ANALYSIS USING COMPUTERS PRACTICAL

CODE: 23BF/AC/FA45

CREDITS: 5

L T P: 1 0 4

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide a practical exposure to the tools adopted for financial analysis
- To expose students to the application of various statistical tools in business.
- To generate accounting reports in Tally.
- To acquaint students with the use of Excel in evaluating the financial performance
- To familiarise to draw logical conclusions using statistical tools.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	identify the accounting software and packages available for financial analysis.	K1
CO2	explain the significance of using computer software and tools for financial analysis	K2
CO3	utilize spreadsheet software to perform quantitative analysis of financial data.	K3
CO4	analyse financial data using computer-based tools in business evaluation techniques.	K4
CO5	interpret the data using statistical tools	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Accounting Package – Tally			
	1.1 Introduction to Tally	K1	2	1
	1.2 Creation, Alteration and Deletion of a Company	K1-K2	3	1-2
	1.3 Creation, Alteration and Deletion of Groups and Ledgers	K1-K3	3	1-3
	1.4 Accounting Vouchers – Types, Voucher Entry	K1-K4	3	1-4
	1.5 Preparation of Financial Statements – Day Book, Trial Balance, Profit and loss Account and Balance Sheet - Moving Data to Excel from Tally	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
2	Analysis using MS Excel			
	2.1 Introduction to Excel	K1	1	1-3
	2.2 Formatting Worksheets	K1-K3	2	1-5
	2.3 Mathematical and Statistical Operations, Text, Logical, Lookup and References using Excel Functions	K1-K5	4	1-5
	2.4 Presentation of Data in MS Excel using Graph, Tables and PIVOT table		4	
	2.5 Named Ranges in MS Excel		3	
3	Financial Statement Analysis and Business Forecasting using Excel	K1-K5	2	1-5
	3.1 Techniques of Financial Statement Analysis			
	3.1.1 Comparative Statements		2	
	3.1.2 Common Size Statements		2	
	3.1.3 Trend Percentages		3	
	3.2 Preparation of Master Budgets		3	
4	3.3 Cash Flow Analysis		2	
	Business Evaluation Techniques using Excel	K1	2	1
	4.1 Time Value of Money	K1-K3	4	1-3
	4.2 Future and Present Value of Money			
	4.3 Future and Present Value of Annuity	K1-K5	4	1-5
5	4.4 Evaluation Techniques – Pay Back Period, NPV and IRR methods			
	Application of MS Excel in Statistics	K1-K5	1	1-5
	5.1 Univariate analysis		3	
	5.2 Correlation Analysis – Correlation Coefficient – Regression Analysis – Regression Equations		3	
	5.3 Testing of Hypothesis for Small Sample		2	
	5.4 Application of Chi-Square Test – Test of Goodness Fit and Test of Independence		3	
	5.5 Analysis of Variance			

BOOKS FOR STUDY

Frye Curtis, *Microsoft Excel 2016 Step by Step*, New Delhi: Microsoft Press, 2015.
Nadhani, A.K. and Nadhani K.K, *Implementing Tally 9*, Noida: BPB Publications, 2018

BOOKS FOR REFERENCE

Bernd Held, *Excel 2016 Functions & Formulas*, Noida: BPB Publications, 2015
John, E. Harker, Dean W. Wichern, Arthur G. Reitsch, *Business Forecasting*, New Delhi: Prentice Hall of India Pvt. Ltd., 2012.
Deepak Jain, *Computer Applications in Business*, Kolkata: Lawpoint Publications, 2010

WEB SOURCES

www.ecommerce-digest.com/online-academic-journals.html
<http://www.openlearningworld.com/books/>
www.tallyschool.com/free-tally-course-online/
www.tallysolutions.com/id/using-tally-want-learn/
www.excelexposure.com

JOURNALS

Indian Journal of Computer Application
Journal of Statistical Software
Journal of Modern Applied Statistical Methods
Chilean Journal of Statistics

PATTERN OF ASSESSMENT - PRACTICALS

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1,K2 (10)	$2 \times 5 = 10$	1 K1 question 1 K2 question	1 K1 question 1 K2 question
B	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	2 K3 questions 2 K4 questions
C	K5 (20)	$1 \times 20 = 20$	1 K5 question	2 K5 questions
	Total	50	5	8

Other Components: Total Marks: 50

Assignment, quiz, open book test, Group Discussion, MCQ.

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1,K2 (20)	$4 \times 5 = 20$	2 K1 questions 2 K2 questions	2 K1 questions 2 K2 questions
B	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	3 K3 questions 3 K4 questions
C	K5 (40)	$2 \times 20 = 30$	2 K5 questions	3 K5 questions
	Total	100	10	13

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/AC/FA45												
IV	Course Title: FINANCIAL ANALYSIS USING COMPUTERS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	-	3	3	-	1	3	-	3	-	-
CO 2	3	1	3	2	3	3	1	-	3	1	3	1	1
CO 3	3	3	3	-	3	3	3	1	3	2	3	3	2
CO 4	3	3	3	2	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

BUSINESS LAW

CODE: 23BF/MC/BL54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the legal environment of Business
- To expose students with the provisions of law that is essential to protect the business environment
- To provide a comprehensive knowledge on the procedural formalities in dealing with different aspects of business transactions
- To acquaint students with the provisions of a limited liability partnership
- To familiarise students with practical application of business law

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	comprehend the features of different acts applicable to business	K1
CO2	discuss the complexity of the law relating to Business	K2
CO3	identify the fundamental legal principles behind contractual agreements.	K3
CO4	examine the legal aspects as to formation and operation of business.	K4
CO5	evaluate practical case laws relating to business law	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Indian Contract			
	1.1 Meaning, Classification of Contract	K1-K2	2	1-2
	1.2 Essentials for a Valid Contract – Conditions	K1-K3	3	1-3
	1.3 Performance of Contract	K1-K5	5	1-5
	1.4 Discharge and Remedies for a Breach of Contract		5	
2	Special Contracts			
	2.1 Indemnity and Guarantee	K1-K5	5	1-5
	2.2 Law of Bailment and Pledge		4	
	2.3 Law of Agency		4	

UNIT	CONTENT	CL	HRS	CO
3	Sale of Goods			
	3.1 Essentials for a Contract of Sale	K1-K4	3	1-4
	3.2 Implied Conditions and Warranties		2	
	3.3 Transfer of Ownership and Delivery of Goods	K1-K5	5	1-5
	3.4 Unpaid Seller- Rights	K1-K4	4	1-4
4	Environment Protection Law – An Overview of			
	4.1 The National Green Tribunal Act, 2010	K1-K4	3	1-4
	4.2 The Air (Prevention and Control of Pollution) Act, 1981 The Water (Prevention and Control of Pollution) Act, 1974	K1-K5	5	1-5
	4.3 The Environment Protection Act, 1986 The Hazardous Waste Management Regulations		3	
5	Limited Liability Partnership Act, 2008			
	5.1 Definitions, Electronic Governance, Certifying Authorities	K1-K4	6	1-4
	5.2 Digital Signature, Certificates, Penalties	K1-K5	6	1-5

BOOKS FOR STUDY

Kapoor N.D. *Elements of Mercantile Law*. New Delhi: Sultan Chand, 2020

Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, New Delhi, S.Chand, 2015

BOOKS FOR REFERENCE

Bulchandani K.R., *Business Law for Management Volume I*, Mumbai: Himalaya Publishing House, 2022

Maheswari S.N., Maheswari S.K., *A Manual of Business Laws*, Mumbai: Himalaya Publishing House, 2020

Tulsian P.C., Bharat Tulsian, *Business Law*, New Delhi: Tata McGraw- Hill education, 2014

Kuchhal, M.C. *Business Law*, New Delhi: Vikas Publications, 2013

Singh, A. *Principles of Mercantile Law*, New Delhi: Eastern Book Company, 2012

WEB SOURCES

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www.indialawworld.Co

www.legalserviceindia.co

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JOURNALS

Journal of Business Law and Ethics

Journal of Intellectual Property Rights Law

National Journal of Environment Law

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/BL54												
V	Course Title: BUSINESS LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	1	3	3	3	3	1
CO 2	3	3	3	3	3	3	3	1	3	3	3	3	1
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	1
CO 4	3	3	3	3	3	3	3	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE & ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

CORPORATE FINANCE

CODE: 23BF/MC/CF54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide a fundamental knowledge on the concepts and principles of corporate finance, time value of money, risk and return and cost of capital
- To enable students with the concepts, assumptions and mechanics involving financial decisions
- To familiarise students with the analytical techniques used in decision making
- To expose students to the methods of corporate restructuring
- To acquaint students with the key components of financial statements and their relevance to corporate financial decision-making

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and list the various sources of finance	K1
CO2	formulate the process and economic rationales of various corporate restructuring tools	K2
CO3	identify the international avenues for finance	K3
CO4	examine the factors affecting valuation of securities	K4
CO5	explain the risk involved in investment decisions	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	An Overview of Corporate Finance			
	1.1 Meaning, Scope and Importance of Corporate Financing	K1-K2	2	1-2
	1.2 Raising of Capital - Sources of Finance	K1-K4	2	1-4
	1.2.1 Long term sources of Finance–Needs and Sources- External, Internal		2	
	1.2.2 Short Term Finance – Needs and Sources		2	
	1.3 Dividend Decision - Meaning, Types of Dividend Policies, Factors Influencing Dividend Policy	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
2	Financial Risk Management			
	2.1 Return - Meaning, Components and Computation of Return	K1-K2	4	1-2
	2.2 Risk – Meaning and Causes, Types of Risk	K1-K5	2	1-5
	2.2.1 Risk Identification and Assessment - Risk Mitigation Strategies – Managing Risk	K1-K3	5	1-3
	2.2.2 Relationship between Risk and Return	K1-K5	4	1-5
3	Valuation of Securities			
	3.1 Equity Valuation based on Accounting Information, Dividends and Earnings	K1-K5	8	1-5
	3.2 Bond Valuation - Bond pricing, Yield to Maturity, Yield to Call		7	
4	Corporate Restructuring			
	4.1 Mergers and Acquisitions	K1-K5	2	1-5
	4.2 Reasons for Merger, Cost and Benefits, Terms of Merger		4	
	4.2 Types of Merger		4	
	4.3 Other Forms of Restructuring	K1-K4	2	1-4
5	International Finance			
	5.1 Fixed, Flexible and Floating Exchange Rates	K1-K5	4	1-5
	5.2 Managing Transaction Exposure	K1-K4	3	1-4
	5.3 Financing International Trade	K1-K5	4	1-5

BOOKS FOR STUDY

Pandey I. M., *Essentials of Financial Management*, New Delhi: Pearson India, 2022
 Prasanna Chandra, *Fundamentals of Financial Management*, New Delhi, Tata Mc Graw Hill, 2022

BOOKS FOR REFERENCE

Pandey I. M., *Financial Management*, New Delhi: Pearson India, 2021
 Jonathan Berk & Peter DeMarzo, *Corporate Finance*, New Delhi: Pearson India, 2019
 Richard A. Brealey, Stewart C. Myers, Franklin Allen, Pitabas Mohanty, *Principles of Corporate Finance*, New Delhi: Tata McGraw Hill, 2018
 Khan M.Y. and Jain P.K. *Financial Management*, New Delhi: Tata McGraw Hill, 2018

WEB SOURCES

www.cfainstitute.org/cfaprogram
www.icaai.org
www.icsi.edu

JOURNALS

Journal of Banking and Finance
 Journal of Finance
 Journal of Financial Economics

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/CF54												
V	Course Title: CORPORATE FINANCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	-	2	3	2	3	-	3
CO 2	3	3	3	3	3	3	1	3	3	3	3	1	3
CO 3	3	2	3	3	3	3	1	3	3	2	3	1	3
CO 4	3	3	3	3	2	3	2	3	3	3	3	2	2
CO 5	3	2	3	3	3	3	3	3	3	2	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE & ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023 - 2024)

CORPORATE GOVERNANCE AND ETHICS

CODE: 23BF/MC/CG53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide a comprehensive knowledge on the practices of corporate ethics and corporate governance
- To create an awareness on the corporate social responsibility of a Business
- To familiarize students with emerging trends in good governance practices.
- To acquaint students with the ethical issues in corporate governance and to adhere to the ethical Values
- To evaluate the legal and regulatory framework of corporate governance

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	outline the importance of business ethics.	K1
CO2	discuss the dimensions of corporate governance	K2
CO3	identify unethical practices in marketing and advertising	K3
CO4	exhibit an understanding of the relevance of Corporate Governance and internal control	K4
CO5	assess the ethical practices in business	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Business Ethics	K1-K3	2	1-3
	1.1 Meaning, Scope, Objectives and Characteristics of Business Ethics		2	
	1.2 Importance of Business Ethics - Influencing Factors	K1-K5	2	1-5
	1.3 Ethical Dilemma in Business - Conflict of Interest		2	
	1.4 Moral Philosophies and Values		2	
2	1.5 Ethical Decision Making		2	
	Ethical Considerations for Finance Professionals	K1-K3	2	1-3
	2.1 Ethical Professional Practice	K1-K5	3	1-5
	2.2 Fraud Triangle		3	
	2.3 Ethical Threats and Safeguards		2	
	2.4 Evaluation and Resolution of Ethical Issues			

UNIT	CONTENT	CL	HRS	CO
3	Ethical Considerations for the Organisation			
	3.1 Organisational Factors and Ethical Culture	K1-K2	2	1-2
	3.2 Ethical Leadership	K1-K4	2	1-4
	3.3 Legal Compliance – Code of Ethics, SOX Act, 2002	K1-K5	2	1-5
	3.4 Responsibility for Ethical Conduct		2	
	3.5 Sustainability and Social Responsibility		2	
4	Corporate Governance			
	4.1 Meaning, Principles and Four Pillars of Corporate Governance	K1-K2	3	1-2
	4.2 Evolution of the Concept of Corporate Governance– Board Reporting	K1-K3	2	1-3
	4.3 Board Committees and their Functions– Role of Independent Directors and Women Directors	K1-K5	4	1-5
	4.4 Role of Audit Committees		1	
	4.5 Mandatory Reporting Requirements under the Companies Act 2013, read with Capital Market Regulations		2	
5	Internal Control, Risk and Compliance			
	5.1 Internal Control Structure and Management Philosophy	K1-K2	4	1-2
	5.2 Internal Control Policies for Safeguarding and Assurance	K1-K5	2	1-5
	5.3 Audit Risk- Risk of Material Misstatement and other Audit Risks- Sampling and Non-Sampling Risks		3	
	5.4 External Audit Requirements and Assurance		1	

BOOKS FOR STUDY

Nirmala K., Aruna Rani N., Business Ethics and Corporate Governance, Noida: Himalaya Publishing House, 2023
 Fernando, A.C. *Corporate Governance – Principles, Policies & Practice*, Noida: Pearson, 2018
 Joan R. Boatright. *Ethics and the Conduct of Business*, Noida: Pearson, 2011

BOOKS FOR REFERENCE

Andrew Crane, Dirk Matten, Sarah Glozer & Laura Spence, *Business Ethics*, New Delhi: Oxford University Press, 2020
 Bob Tricker, *Corporate Governance (International Edition)*, New Delhi: Oxford University Press, 2020
 Murthy C.S.V., *Business Ethics and Corporate Governance*, Noida: Himalaya Publishing House, 2019
 Kshama V. Kaushik, *CSR in India - Steering Business Towards Social Change*, New Delhi: Lexis Nexis, 2017
 Bhanu Murthy, K. V. and Usha Krishna, *Politics Ethics and Social Responsibilities of Business*. New Delhi: Pearson Education, 2015

WEB SOURCES

www.ibscdc.org
 www.exed.hbs.ed
 uwww.hbr.org

JOURNALS

International Journal of Management Reviews

International Journal on Corporate Strategy and Social

Responsibility SSRN – E Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/CG53												
V	Course Title: CORPORATE GOVERNANCE AND ETHICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	1	3	3	3	3	1
CO 2	3	3	3	2	3	3	3	2	3	3	3	3	2
CO 3	2	3	3	3	2	2	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	2	3	2	2	2	2	3	2	2	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE & ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023 - 2024)

LEGAL ASPECTS OF ENTREPRENEURSHIP

CODE: 23BF/MC/LE53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To expose students to the legal aspects of entrepreneurship
- To familiarize students with the provisions of FEMA Act
- To enable students to identify the legal aspects for MSME
- To acquaint students on the importance of consumer protection
- To enable students to understand the provisions relating to IPR

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	outline the provisions of different acts relating to Entrepreneurship	K1
CO2	explain the legal provisions and features relating to MSME	K2
CO3	identify the enforcement mechanism with relation to FEMA, MSME, IPR, Competition and Consumer Protection Acts	K3
CO4	examine the legal regulations relating to entrepreneurship	K4
CO5	assess the grievance redressal mechanisms for different business ventures	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Foreign Exchange Management Act, 1999 1.1 Objects of FEMA, Salient Features of FEMA, Definitions	K1-K4	2	1-4
	1.2 Authorised Person, Currency, Foreign Currency		2	
	1.3 Foreign Exchange, Foreign Security, Offences and Penalties	K1-K5	6	1-5
2	Micro, Small and Medium Enterprises Development Act, 2006 2.1 Introduction of the Act, Objectives and Features of the Act	K1-K3	2	1-3
	2.2 National Board for MSME – Functions and Powers	K1-K5	4	1-5
	2.3 Measures for Promotion and Development		2	
	2.4 Appointment of Officers, Powers and Penalties		2	

UNIT	CONTENT	CL	HRS	CO
3	Intellectual Property Rights in India	K1-K5		1-5
	3.1 Intellectual Property Law in India - Provisions Relating to Patents, Trademarks and Copyrights		5	
	3.2 Overview of Provisions Relating to Industrial Design and Geographical Indication		3	
	3.3 Enforcement of Intellectual Property Rights		2	
4	Competition Act 2002	K1-K3	4	1-3
	4.1 Concept of Competition, Development of Competition Law, Competition Policy			
	4.2 Anti-Competitive Agreements - Abuse of Dominant Position - Regulation of Combination – Powers and Functions of the Commission	K1-K5	6	1-5
5	Consumer Protection Act 1986	K1-K5		1-5
	5.1 Objects of the Act, Rights of Consumer, Definition – Consumer, Appropriate Laboratory, Compliant and Complainant, Consumer Dispute, Defect, Deficiency, Service and Restrictive Trade Practice/Unfair Trade Practice		7	
	5.2 Consumer Protection Councils – Consumer Grievance Redressal Machinery – National Commission		5	

BOOKS FOR STUDY

Kapoor N.D, *Elements of Mercantile Law*, New Delhi: Sultan Chand & Sons, 2022
Kuchhal M. C & Vivek Kuchal, *Business Legislation for Management*, New Delhi: S.Chand & Sons, 2023

BOOKS FOR REFERENCE

Univerals, *The Micro, Small and Medium Enterprises Development Act, 2006- Bare Act with Short Notes*, Lexis Nexis, 2021
Chopra R.K., *Mercantile Law*, Noida: Himalaya Publishing House, 2017
T. Ramappa: *Competition Law in India – Policies, Issues, and Developments*; 3rd Edition, New Delhi: Oxford University Press, 2014
Gogna P.P.S, *Corporate and Allied Laws*, 3rd Edition, New Delhi: S.Chand & Sons, 2013

WEB SOURCES

www.indilaw.com/index.php
www.amritt.com/services/india-business-consulting/business-laws-and-regulations-in-india/
www.lawnotes.in/Indian_Contract_Act,_1872
www.samadhaan.msme.gov.in

JOURNALS

Indian Business Law Journal
Andhra Pradesh Law Journal
Calcutta Law Journal
Madras Law Journal

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23BF/MC/LE53												
V	Course Title: LEGAL ASPECTS OF ENTREPRENEURSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	2	3	2	3	3	3	3	2	3
CO 4	3	3	3	3	2	1	3	3	3	3	3	3	3
CO 5	3	3	3	3	2	2	3	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

DESIGN THINKING AND INNOVATION FOR ENTREPRENEURS

CODE: 23ID/IC/DI55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To expose students to design process as a tool for innovation
- To develop students' professional skills in Innovation Management
- To familiarize the students on portfolio of work to set them apart in the job market
- To provide an opportunity for students to develop teamwork and leadership skills
- To acquaint students with innovative business strategies

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	define and Interpret various innovation models	K1
CO2	comprehend and build empathy for target audience	K2
CO3	apply and examine the innovative business ideas	K3
CO4	develop a strong understanding of the design process	K4
CO5	evaluate the effectiveness of innovation in different business venture	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Human Centered Design 1.1 Introduction to Human-centered Design; Roots of Design Thinking - Design Thinking as a Celebration	K1-K4	4	1-4
	1.2 Digital Disruption and Technology Evolution		3	
	1.3 Appreciating User Needs – Knowing your Users, Identifying Customer Needs		4	
	1.4 Designing with Empathy, Designing for Diversity and Inclusion	K1-K5	5	1-5

UNIT	CONTENT	CL	HRS	CO
2	Ideation and Applied Creativity 2.1 Ideation techniques and Tools for Fostering Creativity	K1-K4	5	1-4
	2.2 Visualisation and storytelling; Immersive learning exercises		5	
	2.3 Prototyping and Testing – Minimum Value Proposition; Proof of Concept, Designing, Tooling and Building		3	
	2.4 Learning from Failed Design		4	
3	Product and Service Design 3.1 Lean and Agile Product/ Service Design	K1-K5	3	1-5
	3.2 Sustainability through Design Thinking		4	
	3.3 Design for Products and Services		4	
	3.4 New Product Development Processes		5	
4	Innovation Management under Entrepreneurship 4.1 Concept of Intrapreneurship	K1-K5	4	1-5
	4.2 Innovation Project Life-Cycle		5	
	4.3 Frugal Innovation		3	
	4.4 Innovation Management Models		4	
5	Leading Innovation in Organisations 5.1 Innovation for Growth and Transforming Business	K1- K5	4	1-5
	5.2 Need for Leadership and Commitment in Innovation		3	
	5.3 Collaborative Ideation and Innovation		3	
	5.4 Data Driven Innovation		3	

BOOKS FOR STUDY

Prof. Nigel Cross - *Design Thinking Understanding How Designers Think and Work*, New Delhi: Bloomsbury, 2019

S.S. Kanka, *Creativity and Innovation in Entrepreneurship*: New Delhi: Sultan Chand & Sons, 2021

BOOKS FOR REFERENCE

S.S.Kanka & C.B.Gupta, *Entrepreneurship and Small Business Management*, New Delhi: Sultan Chand & Sons, 2023

Bhatia RC, *Entrepreneurship: Business and Management*, New Delhi: Sultan Chand & Sons, 2020

Dr. D. Kesavan, *Entrepreneurship Development*, Chennai: Notion Press Media Pvt. Ltd, 2019
Charntimath, *Entrepreneurship Development and Small Business Enterprises*, New Delhi: Pearson Education India, 2013

Scott Swan, Michael G. Luchs and Abbie Griffin, *Design Thinking: New Product Development Essentials*, New Jersey: Wiley Blackwell 2016

WEB SOURCES

<https://schoolofdesignthinking.echos.cc/>

<https://ideou.com>

<https://hbr.org/2018/09/why-design-thinking-works>

<https://interaction-design.org>

JOURNALS

International Journal of Design Creativity and Innovation

IAR Journal of Entrepreneurship, Innovation & Design Thinking

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
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	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/DI55												
V	Course Title: DESIGN THINKING AND INNOVATION FOR ENTREPRENEURS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	1	-	-	3	-	3	-	-
CO 2	3	3	2	3	3	1	2	2	3	2	3	2	2
CO 3	3	3	3	2	3	2	1	1	3	2	3	1	1
CO 4	3	3	3	3	3	3	2	1	3	2	3	2	1
CO 5	3	3	3	3	1	3	1	1	3	1	3	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

CORPORATE LAW

CODE: 23BF/MC/CL63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To expose students to the statutory provisions relating to the formation of a company
- To familiarise students with the documents required for registration of a company
- To acquaint students with the provisions relating to management of a company
- To provide a comprehensive knowledge on the provisions of the act with respect to administration of a company
- To acquaint students with the provisions relating to meetings and resolutions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	relate the concepts and principles of corporate law	K1
CO2	explain the legal provisions relating to formation of a company	K2
CO3	identify the processes by which a business can be incorporated	K3
CO4	examine the role of management in a company	K4
CO5	assess the procedure to be followed by a company in convening the meetings and declaration of dividend	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Company			
	1.1 Introduction	K1-K2	2	1-2
	1.1.1 Definition and Characteristics of a Company			
	1.1.2 Types of Companies	K1-K3	2	1-3
	1.1.3 Lifting of Corporate veil	K1-K5	1	1-5
	1.2 Formation of Company			
	1.2.1 Promoters – Legal position, Re-Classification		2	
	1.2.2 Pre-incorporation		1	
1.2.3 Incorporation of Company – Commencement of Business	2			

UNIT	CONTENT	CL	HRS	CO
2	Documents	K1-K5		1-5
	2.1 Memorandum of Association		2	
	2.1.1 Contents and Alteration of Memorandum		1	
	2.1.2 Doctrine of Ultra Vires		1	
	2.2 Articles of Association		1	
	2.2.1 Contents and Alterations of Articles		1	
	2.2.2 Doctrine of Indoor Management		2	
	2.3 Prospectus		1	
	2.3.1 Definition, meaning and Contents of Prospectus		2	
3	2.3.2 Shelf and red herring prospectus	K1-K3	1	1-3
	2.3.3 Misstatement in Prospectus		1	
	2.4 Letter of Offer			
	Share Capital			
	3.1 Share - Meaning, Nature and types of shares	K1-K4	2	1-4
4	3.2 Share Capital - Issue, Allotment and Forfeiture		2	
	3.3 Alteration of Share Capital	K1-K5	2	1-5
	3.4 Share Certificate, Demat, Membership, Transfer and Transmission of Shares, Nomination		3	
5	3.5 Further Issue of Shares, Buyback		1	
	Management and Administration			
	4.1 Classification of Directors-Women Directors, Independent Director and Small Shareholder's Director	K1-K5	3	1-5
6	4.2 Board of Directors – Qualification, Disqualification, Appointment, Resignation, Vacation of Office, Removal, Powers, Duties and Liabilities		3	
	4.3 Key Managerial Personnel – Appointment and Remuneration		3	
7	Shareholders' Meetings and Dividend Declaration	K1-K5		1-5
	5.1 Meeting-Annual General Meeting, Extraordinary General Meeting – Impact of SS2		3	
	5.2 Meetings - Board and Committee Meetings – Impact of SS1 - Requisites for a Valid Meeting		3	
	5.3 Resolutions – Types		2	
8	5.4 Provisions Relating to Declaration and Payment of Dividend, Transfer of Un-claimed Dividend to Investor Education and Protection Fund		4	

BOOKS FOR STUDY

Kapoor N.D., *Elements of Company Law*, New Delhi: Sultan Chand and Sons, 2022
Kapoor N.D., *Company Law and Secretarial Practice*, New Delhi: Sultan Chand and Sons, 2020

BOOKS FOR REFERENCE

Tripathi S C., *New Company Law*, New Delhi: Central Law Publication, 2023
Kapoor G K. & Sanjay Dhamija, *Company Law and Practice*, New Delhi: Taxmann Publications, 2022
Dr. V. Balachandran, Dr. S. Thothadri, *Business and Corporate Laws*, Chennai: Vijay Nicole Imprints Pvt.Ltd., 2022
Kapoor N.D. *Elements of Mercantile Law*. New Delhi: Sultan Chand and Sons, 2020
Bharat, *Manual of Companies Act, Corporate Laws and SEBI Guidelines*, Law Publishers, 24th edition, 2017
Gogna P., *A Text book of Company Law*, New Delhi: S.Chand and Sons, 2016

WEB SOURCES

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www.cdslindia.com
www.geebeevee.org
www.mca.gov.in

JOURNALS

India Business Law Journal
India Law Journal
Corporate Law Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/CL63												
VI	Course Title: CORPORATE LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	2	1	3	1	2	3	2
CO 2	3	3	3	3	3	2	2	2	3	1	2	3	2
CO 3	3	3	3	3	3	2	2	2	3	1	2	3	3
CO 4	3	3	3	3	3	2	2	2	3	1	2	3	3
CO 5	3	3	3	3	3	2	2	3	3	1	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

MARKETING AND ADVERTISING

CODE: 23BF/MC/MA63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to understand the core marketing concepts
- To expose students to various concepts, tools and principles of marketing
- To acquaint students with the promotional and advertising strategies
- To familiarise students with the distribution channels
- To provide an overview on the role of advertising agencies

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline the various elements of marketing and its implications	K1
CO2	identify the recent marketing practices	K2
CO3	develop advertisements for a new product	K3
CO4	analyse factors influencing the pricing of products	K4
CO5	influence customers with different marketing and advertising Strategies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Meaning, Scope and Core Marketing Concepts	K1-K2	2	1-2
	1.2 Functions of Marketing	K1-K4	2	1-4
	1.3 Market Segmentation and Market Environment		2	
	1.4 Marketing Mix – 7 P's of Marketing		2	
2	Product Mix			
	2.1 Meaning and classification of product	K1-K2	2	1-2
	2.2 Product Management	K1-K5	3	1-5
	2.3 New Product Development		4	
	2.4 Product Life Cycle		3	

UNIT	CONTENT	CL	HRS	CO
3	Pricing and Place Mix			
	3.1 Price	K1-K4	2	1-4
	3.1.1 Meaning and Factors Affecting Price			
	3.1.2 Pricing Methods, Pricing Policies and Strategies	K1-K5	2	1-5
	3.1.3 Legal Implications on Pricing		2	
	3.2 Place		3	
	3.2.1 Distribution-Meaning and Channels		3	
3.2.2 Factors affecting the Choice of Distribution				
4	Promotion and Advertising			
	4.1 Direct Sales- Meaning, Pros and Cons	K1-K4	2	1-5
	4.2 Advertising – Importance and Types	K1-K3	2	1-3
	4.3 Advertising as a Promotional Tool- Pros and Criticism of Advertising	K1-K5	3	1-5
	4.4 Ad Designing – Elements of Creative Ad Design		3	
5	Advertising Media			
	5.1 Role of Media and Types of media – Indoor and Outdoor, Electronic and Online and Social Media Marketing	K1-K5	4	1-5
	5.2 Media Planning Selection and Scheduling Strategies – factors affecting choice of media		2	
	5.3 Role of Agencies – Types and Functions of Ad Agencies – Client and Agency Relationship – Selection of Advertising Agency		4	

BOOKS FOR STUDY

Philip Kotler, Kevin lane Keller, Alexander Chernev, Jagdish N. Sheth, Shainesh G., *Marketing Management*, New Delhi: Pearson Publication, 2022
 Belch, *Advertising and Promotion*, New Delhi: Tata McGraw Hill, 2014

BOOKS FOR REFERENCE

Amit Kumar & Jagadish Rao B., *Marketing Management*, Sahithya Bhawan Publications, 2023
 Ruchi Gupta, *Advertising and Personal Selling*, NewDelhi: Scholar Tech Press, 2022
 Philip T. Kotler, Gary Armstrong, Prafulla Agnihotri, *Principles of Marketing*, New Delhi: Pearson Publication, 2018
 Rajan Saxena, *Marketing Management*, New Delhi: Tata McGraw Hill, 2017
 Chunnawala S A. & Sethia, *Foundations of Advertising – Theory and Practice*, New Delhi: Himalaya Publishing House, 2015

WEB SOURCES

www.marketing-schools.org
www.digitalmarketer.com
www.bgateway.com

JOURNALS

Indian Journal of Marketing
 Journal for Advertising Research and New Insights on Marketing Issues
 Journal of Interactive Advertising
 Journal of Internet Marketing and Advertising

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/MA63												
VI	Course Title: MARKETING AND ADVERTISING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	2	2	2	2	3	-	-	2	1
CO 2	3	3	2	3	3	3	2	3	3	1	3	2	3
CO 3	3	3	2	3	3	3	3	3	3	2	3	3	3
CO 4	3	3	2	3	3	3	3	3	3	3	3	3	2
CO 5	3	3	2	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023 - 2024)

TAXATION

CODE: 23BF/MC/TN64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students with the basic concepts of Income Tax Act
- To enable students to understand the IT structure and its complexities
- To familiarise students with deductions under various heads of income
- To acquaint students on the computation of taxable income and tax liability
- To provide an understanding on the filing of income tax returns

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	recall the important definitions under the Income Tax Act and the residential status of an individual	K1
CO2	explain the computation of income under different heads	K2
CO3	apply the Provisions of Income Tax Act for computation of income for an individual	K3
CO4	analyse the deductions for different heads of income	K4
CO5	compute the tax liability of an individual assessee	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Taxation	K1-K2	2	1-2
	1.1 Importance and Relevance of Taxation			
	1.2 An overview of the Income Tax Act 1961 – Economic Survey – Meaning, Pre-Budget	K1-K3	2	1-3
	1.3 Types of Tax- Direct and Indirect Taxation		2	
	1.3 Important Definitions under The Income Tax Act 1961- Assessee – Types of Assessee - Persons – Income - Assessment Year - Previous Year – Income- Total Income- Taxable Income – Exempted Income		4	
	1.4 Residential Status and Scope of total Income		5	

UNIT	CONTENT	CL	HRS	CO
2	Computation of Salary Income and Income from House property	K1-K5		1-5
	2.1 Computation of Income under the Head Salary		4	
	2.1.1 Allowances - Perquisites - Profit in Lieu of Salary			
	2.1.2 Other Receipts and Treatment of Provident fund		2	
	2.1.3 Deductions, Computation of Salary Income		2	
	2.2 Computation of Income under the Head House Property		4	
	2.2.1 Basis of Charge			
	2.2.2 Deductions, Computation of House Property Income		7	
3	Computation of Profit and Gains of Business or Profession	K1-K4		1-4
	3.1 Income chargeable under the head Profit and Gains of Business or Profession		3	
	3.2 Disallowance under the head Profit and Gains of Business or Profession	K1-K5	3	1-5
	3.2 Presumptive provisions		2	
	3.4 Alternate Minimum Tax		2	
4	Computation of Capital gains and Income from other sources			
	4.1 Capital Asset-Types of Capital Assets	K1-K2	1	1-2
	4.1.1 Computation of Short Term and Long Term Capital Gains	K1-K5	5	1-5
	4.1.2 Exempted Capital Gains	K1-K4	2	1-4
	4.2 Income from Other Sources			
	4.2.1 Basis of Charge, Casual and Other Income	K1-K2	1	1-2
	4.2.2 Computation of Taxable Income from Other Sources	K1-K5	5	1-5
5	Computation of Total Income and Tax liability			
	5.1 Set off and carry forward of losses	K1-K3	2	1-3
	5.2 Computation of Gross total income	K1-K5	2	1-5
	5.3 Deductions allowed under Section 80 for an Individual		2	
	5.4 Computation of Taxable Income and Tax Liability		1	

BOOKS FOR STUDY

V.P Gaur & D.B Narang, *Income Tax –Law & Practice*, New Delhi: Kalyani Publishers, Latest Edition
Dr.Vinod K.Singhania, *Students Guide to Income Tax*, New Delhi: Taxmann Publications Pvt.Ltd, Latest Edition

BOOKS FOR REFERENCE

Dr.H.C.Mehrotra & Dr.S.P.Goyal, *Problems and Solutions in Income Tax*, Agra: Sahitya Bhawan Publications, Latest Edition
Dr.Bhagavathi Prasad, *Income Tax -Law & Practice*, New Delhi: Vishwa Publication, Latest Edition
T.S. Reddy and Y Hariprasad Reddy, *Income Tax Theory, Law & Practice*, Chennai: Margham Publications, Latest Edition

WEB SOURCES

www.icaew.com
www.aicpa.org
www.ctconline.org

JOURNALS

Journal of Taxation
National Tax Journal
Journal of Indian Taxation

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2 K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/TN64												
VI	Course Title: TAXATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	1	-	3	2	2	2	-
CO 2	3	3	3	3	3	2	3	-	3	2	2	3	1
CO 3	3	3	2	3	3	2	3	1	3	2	2	3	2
CO 4	3	3	3	3	3	2	3	1	3	2	2	3	2
CO 5	3	3	3	3	3	2	3	-	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023 - 2024)

CORPORATE ACCOUNTING

CODE: 23BF/MC/CA64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the concept of disclosure in the preparation of financial statements
- To expose students to profitability and income measurement analysis
- To acquaint students with the methods of valuation of shares and goodwill
- To enable students in gaining knowledge with the accounting procedure for mergers and acquisitions
- To familiarize students with the provisions relating to internal reconstruction

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	explain the concept of financial statements and financial reporting	K1
CO2	identify the statutory provisions relating to preparation of financial statements	K2
CO3	apply the provisions relating to amalgamation and absorption	K3
CO4	analyze financial statements to evaluate a company's profitability trends over time.	K4
CO5	assess the financial performance and position of a company	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Financial Reporting	K1-K4		1-4
	1.1 Disclosure in Annual Accounts – Notes forming Part of Financial Statements		2	
	1.2 Corporate Governance and Disclosure Requirements		2	
	1.3 Disclosure Relating to Financial Statements (Notes to Accounts)		1	
	1.4 Preparation of Profit and Loss Account and Balance Sheet of Corporate Entities	K1-K5	8	1-5

UNIT	CONTENT	CL	HRS	CO
2	Profitability Analysis 2.1 Income Measurement Analysis - Revenue Analysis - Cost of Sales Analysis - Expense Analysis – Variation Analysis	K1-K5	4	1-5
	2.2 Special Issues - Impact of Foreign Operations – Effects of Changing Prices and Inflation - Impact of Changes in Accounting Treatment - Value and Income –Accounting and Economic Concepts, Earning Quality		4	
3	Valuation of Goodwill and Shares 3.1 Meaning, Need and Factors to be considered for Valuing Goodwill and Shares	K1-K2	2	1-2
	3.2 Methods of Valuation of Shares – Intrinsic Value, Yield Value Earning Capacity and Fair Value	K1-K5	4	1-5
	3.3 Methods of Valuation of Goodwill – Average Profits, Super Profits		4	
4	Amalgamation and Absorption 4.1 Meaning and Difference	K1-K2	2	1-2
	4.2 Calculation of Purchase Consideration for Amalgamation, Merger and Purchase	K1-K5	7	1-5
	4.3 Accounting Treatment in the Books of the Purchasing Company and the Vendor Company for Merger and Purchase excluding Intercompany Holdings		10	
5	Internal Reconstruction including Alteration of Share Capital 5.1 Alteration of Share Capital – Types – Accounting Procedure	K1-K5	3	1-5
	5.2 Internal Reconstruction – Types and Legal Provisions		3	
	5.3 Accounting Entries and Preparation of Balance Sheet after Internal Reconstruction		9	

BOOKS FOR STUDY

Gupta R.L and Radhaswamy M., *Corporate Accounting*, New Delhi: Sultan Chand & Sons, 2021

Reddy, T.S and A. Murthy., *Corporate Accounting*, Chennai: Margham Publications, 2017

Kapoor N.D, *Elements of Mercantile Law*, New Delhi: Sultan Chand & Sons, 2022

Kuchhal M. C & Vivek Kuchal, *Business Legislation for Management*, New Delhi: S.Chand & Sons, 2023

BOOKS FOR REFERENCE

Tulsian P.C., Bharat Tulsian & Tushar Tulsian, *Corporate Accounting*, New Delhi: S.Chand & Sons, 2023

B.S.Raman & Y.S.Ganesh, *Corporate Accounting*, Mysore: Chethana Book House, 2023

M.C.Shukla, T.C.Grewal & S.C.Gupta, *Corporate Accounting*, New Delhi: S.Chand & Sons, 2019

S.N.Maheswari, Suneel K.Maheswari & Sharad K.Maheswari, *Corporate Accounting*, New Delhi: Vikas Publishing House, 2018

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JOURNALS

Journal of Institute of Chartered Accountants of India

Journal of Corporate Accounting and Finance.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

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End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

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D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/MC/CA64												
VI	Course Title: CORPORATE ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	1	-	-	3	3	3	-	1
CO 2	3	3	3	3	2	1	2	1	3	3	3	2	1
CO 3	3	3	2	3	2	3	2	1	3	3	3	2	2
CO 4	3	3	3	3	2	3	3	1	3	3	3	3	3
CO 5	3	3	3	3	2	-3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi- Canticale of creatures
Seeking the Divine through meditation, prayer and worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and

- democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion’s vision of womanhood
 - 2.7 Opting for marriage, single, religious or a life committed to a cause
 - 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
 - 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
 - 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
 - 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one’s past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

SOCIAL ENTREPRENEURSHIP

CODE: 23BF/ME/SE45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an insight on Social Entrepreneurship
- To enable students to identify environmental issues faced by entrepreneurs
- To familiarize students with case studies on successful social enterprises in practice
- To expose students in developing sustainable business plans
- To acquaint students with the ethical considerations inherent in social entrepreneurship

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Explain social entrepreneurship and its characteristics.	K1
CO2	Identify the differences and similarities between traditional entrepreneurship and social entrepreneurship.	K2
CO3	Apply strategies for promoting a socially- driven business.	K3
CO4	Examine the potential risks and benefits of various funding models for social enterprises	K4
CO5	Analyze real-world case studies of social enterprises for achieving financial and social viability.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Social Entrepreneur			
	1.1 Meaning and Definition of Social Entrepreneur	K1-K2	1	1-2
	1.2 Characteristics of Social Entrepreneur	K1-K3	3	1-3
	1.3 Social Value and to Benefit the Communities, High Degree of Economic Risk and Autonomy in Activities relating to Goods or Services, Pursuit of New Opportunities	K1-K4	5	1-4
	1.4 Exploration of Hidden Resources to Serve those Missions, Quest for Sustainable Models, Based on Well Elaborated Feasibility Study.	K1-K5	6	1- 5

UNIT	CONTENT	CL	HRS	CO
2	Social Entrepreneurship 2.1 Meaning and Characteristics of Social Entrepreneurship	K1-K3	4	1-3
	2.2 Differences between Business and Social Entrepreneur	K1-K5	3	1-5
	2.3 Difference between Entrepreneurship and Social Entrepreneurship.		4	
	2.4 Social Entrepreneurship in India.		4	
3	The Social Entrepreneurship Process 3.1 The Timmons Model of the Entrepreneurship Process, The PCDO (The People, Context, Deal, and opportunity) Framework.	K1-K5	4	1-5
	3.2 The Case Model, The Social Entrepreneurship Framework.		4	
	3.3 Sources of Social Entrepreneurship -Public Sector, Private Sector, Voluntary Sector	K1-K4	4	1-4
	3.4 Qualities and Skills of Social Entrepreneur	K1-K3	3	1-3
4	Social Entrepreneurship in Practice 4.1 Supporting Agencies – Ashoka, Skoll Foundation, Miller Center for Social Entrepreneurship	K1-K5	4	1-5
	4.2 Case Studies: The Grameen Bank (GB), The Self Employment Women’s Association (SEWA), Barefoot College, Technology Informatics Design Endeavour (TIDE).		4	
	4.3 Boundaries of Social Entrepreneurship		2	
5	Ethical Entrepreneurship and Challenges in Social Entrepreneurship 5.1 Meaning of Ethical entrepreneurship	K1-K2	2	1-2
	5.2 Empirical ethics & Eternal ethics	K1-K3	3	1-3
	5.3 Entrepreneur and Customer, Entrepreneur and Employee, Entrepreneur and Government	K1-K4	3	1-4
	5.4 Challenges in Social Entrepreneurship	K1-K5	2	1-5

BOOKS FOR STUDY

Robert A. Philips Margret Bonefiel Ritesh Sharma, *Social Entrepreneurship, The Next Big Business Opportunity*, New Delhi: Global Vision Publishing House, 2017

S.S. Khanka, *Entrepreneurship in India, Perspective and Practice*, New Delhi: Akansha Publishing House, 2009

BOOKS FOR REFERENCE

Jill Kickul and Thomas S.Lyons, *Understanding Social Entrepreneurship, the relentless pursuit of mission in an ever-changing world*, New York: Routledge, 2020

Vasant Desai, *Entrepreneurial development*, New Delhi: Himalaya Publishing House, 2019

David Bornstein & Susan Davis, *Social Entrepreneurship What Every Needs to Know*, New

Delhi: Oxford University Press, 2016

Rama krishna Reddy Kummitha, *Social Entrepreneurship: Working Towards Greater Inclusiveness*, New Delhi: Sage Publications, 2016

WEB SOURCES

<https://www.ashoka.org>

<http://www.skollfoundation.org>

<https://www.youtube.com/watch?v=kW-4gJmXy5M>

JOURNALS

Journal of Social Entrepreneurship

Journal of Business Venturing

International Journal of Entrepreneurship

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/ME/SE45												
IV	Course Title: SOCIAL ENTREPRENEURSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	3	3	3	3	2	3	-	2	3	3
CO 2	3	3	3	3	3	3	3	3	3	-	2	3	3
CO 3	3	3	2	3	3	3	3	3	3	3	2	3	3
CO 4	3	3	1	3	3	3	3	3	3	1	3	3	3
CO 5	3	3	1	3	3	3	3	3	3	1	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS LLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

CODE: 23BF/ME/SP45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students with knowledge of investments.
- To acquaint students with the fundamental principles and techniques of security analysis.
- To expose students to the guidelines for creation and revision of an investment portfolio.
- To develop student's ability to critically examine the types of securities.
- To enable students to evaluate investment performance.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Describe the fundamental concepts of investment portfolio	K1
CO2	Infer the various methods for valuing financial instruments	K2
CO3	Apply modern portfolio theory to optimize portfolio allocation and balance risk and return	K3
CO4	Illustrate diversified investment portfolios considering market conditions	K4
CO5	Evaluate the concept of portfolio management	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Definition and Meaning of Portfolio Management	K1-K2	1	1-2
	1.2 Steps involved in Portfolio Management, Principles of Portfolio Management	K1-K3	2	1-3
	1.3 Return - Meaning and Components of Return		1	
	1.4 Risk – Meaning and Causes, Types of Risk – Relationship between Risk and Return	K1-K4	3	1- 4
	1.5 Risk Identification and Assessment - Risk Mitigation Strategies – Managing Risk	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
2	Theories of Portfolio Management 2.1 Measurement of Return and Risk – Single Security and Portfolio	K1-K4	4	1-4
	2.2 Portfolio Theory - Harry Markowitz, Single Index Model, Capital Assets Pricing Model	K1-K5	6	1-5
3	Valuation of Securities 3.1 Equity Valuation based on Accounting Information, Dividends and Earnings	K1-K5	8	1-5
	3.2 Bond Valuation - Bond pricing, Yield to Maturity, Yield to Call		7	
4	Security Analysis 4.1 Fundamental Analysis – Intrinsic value of shares – EIC (Economy-Industry Company) Framework	K1-K5	8	1-5
	4.2 Technical Analysis (only theory) –Basic Tenets of Technical Analysis, Price and Volume Charts, Dow Theory, Pattern Analysis		8	
5	Techniques of Portfolio Management 5.1 Efficient Market Hypothesis	K1-K3	3	1-3
	5.2 Asset Allocation Framework – Strategic and Tactical	K1-K5	4	1-5
	5.3 Passive and Active Management Strategies		3	
	5.4 Portfolio Evaluation – Treynor Measure, Sharpe Measure, Jensen Measure		4	

BOOKS FOR STUDY

Rustagi, R.P, *Investment Analysis and Portfolio Management*, New Delhi: Sultan Chand & Sons, 2013

Chandra, Prasanna, *Investment Analysis and Portfolio Management*, New Delhi: Tata McGraw-Hill, 2012

BOOKS FOR REFERENCE

Gurusamy, S., *Security Analysis and Portfolio Management*, Chennai: Vijay Nicole Imprints, 2017

Bhalla V.K, *Fundamentals of Investment Management*, New Delhi: S.Chand & Co, 2013

Singh, Preethi, *Investment Management Security Analysis and Portfolio Management*, Mumbai: Himalaya Publishing House, 2017

WEB SOURCES

www.aaii.in

www.investopedia.com

www.askinvestmentmanagers.com

JOURNALS

Journal of Financial Markets and Portfolio Management
Streetwise –The Journal of Portfolio Management
Journal of Project, Program and Portfolio Management

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2 K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/ME/SP45												
IV	Course Title: SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	3	3	1	1	3	3	2	1	2
CO 2	3	3	3	1	3	3	2	2	3	3	3	2	3
CO 3	3	3	3	2	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	2	2
CO 5	3	3	3	-	3	3	2	3	3	3	3	2	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS LLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

CUSTOMER RELATIONSHIP MANAGEMENT

CODE: 23BF/ME/CR45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to the concepts and importance of customer relationship management in business
- To acquaint students with the customer relationship management process.
- To enable students understand the recent trends in customer relationship management.
- To emphasize the importance of customer data privacy and security to students.
- To familiarize students in designing and implementing customer-centric strategies.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Describe customer relationship management and its key components.	K1
CO2	Summarize the role of CRM in fostering customer loyalty	K2
CO3	Apply the concept of CRM to target customer groups	K3
CO4	Examine the technology associated with implementing CRM	K4
CO5	Assess the Customer relationship management and its effectiveness	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Definition and Concepts of Customer Relationship Management	K1-K2	2	1-2
	1.2 Understanding Customer Buying Decision Making process	K1-K4	3	1-4
	1.3 Customer Life Cycle	K1-K5	2	1-5
	1.4 Elements of Customer Relationship Management	K1-K4	4	1-4

UNIT	CONTENT	CL	HRS	CO
2	Customer Relationship Management Process and Planning			
	2.1 Phases and Objectives of CRM process	K1-K4	5	1-4
	2.2 Phases of CRM cycle	K1-K5	5	1-5
	2.3 Customer knowledge and Relationship Policy	K1-K4	5	1-4
3	Customer Relationship Management and Marketing		5	
	3.1 Evaluation of Customer Relationship Marketing			
	3.2 Types of CRM – Win Back , Prospecting, Cross Selling , Up Selling	K1-K5	5	1-5
	3.3 Brand Loyalty and Brand Equity in Customers	K1-K4	6	1-4
4	Customer Relationship Management and Implementation			
	4.1 CRM Implementation – Structure, Choice of Technology, Reporting	K1-K4	7	1-4
	4.2 Data Storage and Data Mining and Retrieval		3	
	4.3 Market Intelligence and Information systems for Effective CRM	K1-K5	3	1-5
5	Recent Trends in Customer Relationship Management			
	5.1 Managing Customer Retention in Retail Industry	K1-K4	4	1-4
	5.2 Technology changes – Call Centre, Information Centres, Social Media in CRM	K1-K5	3	1-5
	5.3 CRM in New Industries		3	

BOOKS FOR STUDY

Jagdish N Sheth, Parvatiyar Atul & G Shainesh, *Customer Relationship Management: Concepts, Tools and Application*, New Delhi: Tata McGraw Hill, 2017

Dr. Ruchi Jain and Dr. Ruchika Jeswal, *Customer Relationship Management - A Conceptual Approach*, Noida: Galgotia Publishing, 2019

BOOKS FOR REFERENCE

Dr. Arunangshu Giri, Dr. Debasish Biswas & Satakshi Chatterjee, *CRM and E-CRM*, New Delhi: Himalaya Publishing House, 2021

Roberts Graham-Phelps, *Customer Relationship Management*, New Delhi: Viva Books Pvt. Ltd., 2008

Kristin Anderson and Carol Kerr, *Customer Relationship Management*, New Delhi, Tata McGraw Hill, 2002

Madhavi Garikaparathi, *CRM in Financial Services*, Hyderabad: The ICFAI University Press, 2006.

Peter Duchessi, *Crafting Customer Value – The Art and Science*, Mumbai: Jaico Publishing House, 2006.

Shahjahan S., *Relationship Marketing – Text and Cases*, New Delhi: Tata McGraw Hill Publishing Co., 2006

WEB SOURCES

www.forbes.com

www.nielsen.com

www.marketing-trends-congress.com

JOURNALS

International Journal of Research in Marketing.

Indian Journal of Marketing

Journal of Marketing Theory and Practice

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/ME/CR45												
IV	Course Title: CUSTOMER RELATIONSHIP MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	1	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	1	3	3	2
CO 4	3	3	3	1	3	3	2	1	3	2	3	2	2
CO 5	3	3	3	3	3	3	3	3	3	1	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP
SYLLABUS**

(Effective from the Academic Year 2023-2024)

TECHNOLOGY IN BANKING AND FINANCE

COPDE: 23BF/ME/TB45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students about banking in a digital environment.
- To provide students an understanding on the innovative banking products.
- To familiarise students on IT structure of bank management.
- To equip students with the ability to assess potential cybersecurity threats and frauds.
- To enable students to comprehend the influence of automation in financial operations.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Describe the technology developments in the banking sector.	K1
CO2	Explain the role and need for digital banking.	K2
CO3	Apply technological strategies to address challenges related to cyber security in the financial sector.	K3
CO4	Analyse the role of ICT in banking	K4
CO5	Evaluate the effectiveness of specific technologies in enhancing customer experiences.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Information Technology in Banking			
	1.1 Recent development in Banking & Trends in Information Technology	K1-K3	4	1-3
	1.2 Usage and impact of IT in Banking	K1-K4	3	1-4
	1.3 Opportunities in Banking Industry- Development of Technology in Banks- Development of ICT based Banking.	K1- K5	4	1-5
	1.4 Emerging challenges in Banking industry - Scope of IT to Tackle the key challenges, Benefits of E-Banking		4	
2	Digital Banking			
	2.1 Meaning & Definition of Digital Banking	K1-K2	1	1-2

UNIT	CONTENT	CL	HRS	CO
	2.2 Need for Digitalization	K1-K4	2	1-4
	2.3 Dimensions of digital Banking- Internal, Customer, Regulatory, Technology, Data and Analytical Dimension; Digital Banking and Cash-less Payments	K1-K5	5	1-5
	2.4 CRM in a Digitalized Banking Environment, e-CRM Techniques and Benefits		4	
3	Banking Technology Management			
	3.1 Role of IDBRT (Institute of Development & Research in Banking) in Banking Technology Development	K1-K4	3	1-4
	3.2 Meaning of Banking Technology; Constituents of Banking Technology	K1-K3	3	1-3
	3.3 Role of ICT in banking	K1-K4	3	1-4
	3.4 Application of data mining and data warehousing in banking	K1-K5	4	1-5
4	IT Infrastructure for Management of Banks			
	4.1 Banking IT Infrastructure	K1-K4	3	1-4
	4.2 Elements and Models of Banking IT Infrastructure	K1-K5	3	1-5
	4.3 Integrated Circuit Card (ICC) – SWIFT, Origin of the Society working of SWIFT		4	
5	Cyber Security and Banking			
	5.1 Information security; Software Based Security System & Hardware Based Security	K1-K4	3	1-4
	5.2 Systems Hackers & the techniques used by the Hackers	K1-K5	3	1-5
	5.3 Site-authentication Methodologies and Security Measures		3	
	5.4 Encryption and security, Customer Confidentiality		3	
	5.5 Regulatory environment of Internet Banking	K1-K4	3	1-4

BOOKS FOR STUDY

Sangeetha R., *Technology in Banking*, Chennai: Charulatha Publishers, 2019

Indian Institute of Banking and Finance, *Digital banking*, New Delhi: Taxman 2019

BOOKS FOR REFERENCE

Tim Walker & Lucian Morris, *The Handbook of Banking Technology*, Wiley Publication, 2021
Abhilasha S. Magar, *Information Technology in Banking and Insurance*, New Delhi: Himalaya Publishing House, 2018
Indian Institute of Banking, *IT security*, Taxman Publications, 2016
Muraleedharan. D, *Modern Banking Theory and Practice*, Kerala: Prentice Hall India Learning Private Limited, 2014
Skinner C, *Digital bank: strategies to launch or become a digital bank*, Marshall Cavendish International (Asia) 2014

WEB SOURCES

<https://www.india-financing.com/indo1.html>
<http://www.languages.ind.in/factoring.htm>
<http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?ID=243>
<https://www.irda.gov.in/>

JOURNALS

Asian Journal of Research in Banking and Finance
Indian Journal of Finance
Journal of Banking, Information Technology and Management
Journal of Bank Management

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/ME/TB45												
IV	Course Title: TECHNOLOGY IN BANKING AND FINANCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	-	3	3	2	-	3	-	3	1	1
CO 2	3	3	3	2	3	3	1	3	3	-	3	2	3
CO 3	3	3	3	1	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	2	3	3	2	2	3	2	3	3	3
CO 5	3	3	3	1	3	3	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

DIGITAL COMMUNICATION IN THE CORPORATE WORLD

CODE: 23BF/ME/DC45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an understanding on the digital communication concepts
- To equip students to formulate effective digital communication strategies aligned with organizational goals.
- To enable students to explore the potential impact of future technologies on corporate communication strategies.
- To acquaint students with the effectiveness of digital communication strategies and campaigns.
- To familiarise students with various social media platforms

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Explain the various digital media platforms and technologies used in corporate communication	K1
CO2	Develop effective digital communication strategies that align with organizational goals	K2
CO3	Identify different communication tools and understand media selection	K3
CO4	Examine how message appeal can be employed in different contexts	K4
CO5	Critically reflect on the future and ethical issues in corporate communication.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Corporate Communication			
	1.1 Definition, Role, Scope, Functions and Importance of Corporate Communication	K1-K5	4	1-5
	1.2 Evolution of Corporate Communication in the Digital age	K1-K3	3	1-3
	1.3 Internal and External Communication	K1-K4	2	1-4
	1.4 Elements of a Corporate Communication Plan	K1-K3	4	1-3
2	Communication Strategy in the Digital Age			
	2.1 Setting Communication Objectives	K1-K3	4	1-3

UNIT	CONTENT	CL	HRS	CO
	2.2 Developing a Digital Communication Strategy	K1-K5	2	1-5
	2.3 Identifying Target Audiences and Personalities		3	
	2.4 Content Creation and Distribution Planning		3	
3	Digital Media Platforms	K1-K5		1-5
	3.1 Creating and Curating Content for Digital Media – Social Media, Websites, Blogs, Podcasts, etc.		5	
	3.2 Social Media Advertising and Paid Promotions		5	
	3.3 Monitoring and measuring Social Media Performance		5	
4	Website and Blog Management	K1-K5		1-5
	4.1 Website Design and User Experience		5	
	4.2 Blogging as a Communication Tool		4	
	4.3 SEO (Search Engine Optimization) for Websites and Blogs		5	
5	Future Trends and Ethical Considerations	K1-K5		1-5
	5.1 Emerging Technologies in Corporate Communication (E.G., AI, Chatbots)		2	
	5.2 The Role of Virtual Reality (VR) and Augmented Reality (AR)		3	
	5.3 Future of Digital Corporate Communication		3	
	5.4 Privacy, Data Protection Regulations and Ethical Guidelines for Digital Communication		3	

BOOKS FOR STUDY

Pragyan Rath, K. Shalini & Debankita Ray, *Corporate Communication*, New Delhi: Cengage India Private Limited, 2018

Dr.Sapna, *Corporate Communication Trends and Features*, New Delhi: Notion Press, 2020

BOOKS FOR REFERENCE

Pragyan Rath & Apporva Bharadwaj, *Communication Strategies for Corporate Leaders: Implications for the Global Market*, New Delhi: Routledge, 2018

Sathish Babu Bachut, *Corporate Communication Skills for Professionals*, New Delhi: White Falcon Publishing, 2021

Rudolf Berger, *Present Day Corporate Communication*, New Delhi: Springer, 2018

Alfred White, *Digital Media in the Communication World*, USA: Larsen and Keller Education, 2017

Lindgren S., *Digital Media and Society*, New Delhi: Sage Publications, 2017

Jethwaney, Jaishri, *Corporate Communication: Principles and Practice*, New Delhi: Sage Publications, 2018

WEB SOURCES

www.simpplr.com/glossary/corporate-communications/#:~:text=

<https://www.easyleadz.com/blog/corporate-communication/>

<https://www.mbaskool.com/business-concepts/marketing-and-strategy-terms>

JOURNALS

Journal of Communication Management

Management Communication

Journal of Digital Media and Policy

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not Exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions Internal Choice 1 K4 questions Internal Choice
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BF/ME/DC45												
IV	Course Title: DIGITAL COMMUNICATION IN THE CORPORATE WORLD												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	1	3	3	3
CO 2	3	3	3	3	3	3	-	-	3	1	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	-	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	-	3	3	3
CO 5	3	3	2	3	3	2	3	3	3	1	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

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DEGREE PROGRAMMES

SYLLABUS

(Effective from the Academic Year 2023-2024)

DIGITAL MARKETING

CODE: 23BF/GE/DM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To familiarize students with the concept of Digital Marketing
- To enable students to use tools and Techniques in Digital Marketing
- To acquaint students with the use of various social media platform for business

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Explain the importance of digital platform	K1
CO2	Differentiate the traditional marketing with the digital marketing	K2
CO3	Identify modes of digital marketing in reaching out to customers	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Digital Marketing:	K1-K2		1-2
	1.1 Introduction to Digital Marketing – Key Concepts –Traditional v/s Digital Marketing		3	
	1.2 Characteristics of Digital Marketing – Opportunity of Digital Marketing		2	
	1.3 Implications of Digital Marketing	K1- K3	3	1-3
2	Website and Search Engine Optimization (SEO)			
	2.1 Website Development Fundamentals – Key SEO Concepts - Mechanics of Search	K1-K2	4	1-2
	2.2 The SEO Process – SEO Site Map – SEO Google Search – Customer Insights	K1-K3	3	1-3

UNIT	CONTENT	CL	HRS	CO
	2.3 Meta Tags – Keyword Research and Selection – Search Marketing Basics (Pay Per Click Concepts)		3	
3	Social Media Marketing and Email marketing 3.1 Key Concepts of Social Media Marketing – Social Media Goals – Facebook Features – Twitter Features)	K1-K2	2	1-2
	3.2 YouTube Set Up – YouTube Channels – YouTube Features – Blogging – Google Analytics – Content Planning – Scheduling – Other Tools (Instagram, LinkedIn, Pinterest)	K1-K3	3	1-3
	3.3 Key Email Marketing Concepts – Campaign Process – Online Data Capture – Using Survey Tools– Email Structure		3	

BOOKS FOR STUDY

Dr.Ritika Malik & Ms.Ritika Aggarwal, *Digital Marketing Tools, Techniques & It's Aspects - An Integrated Approach on Online Marketing*, NewDelhi: Bluerose Publishers Pvt. Ltd., 2021

V Venkata Krishna, *Digital Marketing for Beginners: A Road Map to Successful Career in Digital Marketing*, Chennai: Notion Press, 2023

BOOKS FOR REFERENCE

Puneet Singh Bhatia, *Fundamentals of Digital Marketing*, Noida: Pearson Publications, 2019

Swaminathan T. N. & Karthik Kumar, *Digital Marketing: From Fundamentals to Future*, Noida: Cengage Learning India Pvt. Ltd, 2019

Seema Gupta, *Digital Marketing*, New Delhi: Tata McGraw Hill Education, 2020

JOURNAL

Journal of Digital and Social Media Marketing

Journal of Digital Marketing

International Journal of Internet Marketing and Advertising

WEB RESOURCES

<https://digitalfireflymarketing.com/wp-content/uploads/2017/02/Big-Book-of-DigitalMarketing.pdf>

<https://www.7boats.com/academy/wp-content/uploads/2016/10/50-shades-of-digitalmarketing.pdf>

<http://www.gbv.de/dms/zbw/865712123.pdf>

<https://webmarketingacademy.in/wp-content/uploads/2015/09/A-Step-By-Step-Guide-toModern-Digital-Marketing.pdf>

https://www.redandyellow.co.za/content/uploads/woocommerce_uploads/2017/10/emarketin_g_textbook_download.pdf

PATTERN OF ASSESSMENT**Continuous Assessment Test****Total Marks: 25****Duration: 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5 x 1 = 5	5 K1 questions	5 K1 questions
B - 50 words	K2	5 x 2 = 10	5 K2 questions	7 K2 questions
C – 150 words	K3	2 x 5 = 10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

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DEGREE PROGRAMMES

SYLLABUS

(Effective from the Academic Year 2023-2024)

PERSONAL FINANCIAL PLANNING

CODE: 23BF/GE/PP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To educate students about various savings and investment options
- To equip students to identify schemes for retirement
- To empower students to achieve financial security and independence

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Choose financial goals and develop a financial plan	K1
CO2	Prepare a personal budget	K2
CO3	Identify the process of financial planning and manage savings for retirement	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial Planning and Savings			
	1.1 Meaning, Objectives, Process -The concept of Time Value of Money and its Application in Financial Planning	K1-K2	2	1-2
	1.2 Introduction to Savings, Benefits of Savings, Management of Spending and Financial Discipline, Net Banking and UPI, Digital Wallets		3	
	1.3 Steps in Financial Planning, Personal Finance/Loans, Education Loan, Car Loan and Home Loan Schemes	K1- K3	3	1-3
2	Investment planning			
	2.1 Process and Objectives of Investment, Concept and Measurement of Return and Risk	K1-K2	4	1-2

UNIT	CONTENT	CL	HRS	CO
	2.2 Measurement of Portfolio Risk and Return – Diversification and Portfolio Formation	K1-K3	3	1-3
	2.3 Gold Bond, Real estate		1	
	2.4 Investment in Fixed Income Instruments – Financial Derivatives and Commodity Market in India, Mutual Fund Schemes including SIP		2	
3	Insurance and Retirement Planning			
	3.1 Need for Protection Planning, Risk of Mortality, Health, Disability and Property	K1-K2	2	1-2
	3.2 Importance of Insurance: Life and Non-life Insurance Schemes.	K1-K3	3	1-3
	3.3 Retirement Planning Goals, Process of Retirement Planning, Pension Plans available in India		3	

BOOKS FOR STUDY

Dr.Amith Kumar Sinha, *Financial Literacy*, Noida: Taxmann Publications, 2023

Dr.Ajith S.Thite & Pradeep Kumar Sinha, *Personal Financial Planning*, NewDelhi: Nirali Prakashan., 2020

BOOKS FOR REFERENCE

Dr.Vimal Krishna Rajput, *5 W's of Financial Planning*, Chennai: Notion Press, 2021

Murali & Subbakrishna, *Personal Financial Planning*, NewDelhi: Himalaya Publication, 2018

Indian Institute of Banking & Finance, *Introduction to Financial Planning*, Noida: Taxmann Publications, 2017

WEB SOURCES

<https://www.economicsdiscussion.net/financial-management/financial-planning/33284>

<https://nios.ac.in/media/documents/srsec319new/319EL17.pdf>

<https://www.investopedia.com/articles/retirement/11/5-steps-to-retirement-plan.asp>

JOURNAL

Journal of Financial Planning

Journal of Financial Counseling and Planning

Journal of Financial Planning and Management

PATTERN OF ASSESSMENT

Continuous Assessment Test

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5 x 1 = 5	5 K1 questions	5 K1 questions
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	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

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DEGREE PROGRAMMES
SYLLABUS**

(Effective from the academic year 2023-2024)

RIGHT TO INFORMATION ACT

CODE: 23BF/GE/RI22

CREDITS:2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE:

- To introduce student to the concept of right to information and consider its implications for human rights.
- To familiarize the students about the constitution and functioning of Central and State Information Commission.
- To acquaint the students about the right to information contained in other statutes.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Recognize the significance of the right to information movement.	K1
CO2	Explain the objectives of the Right to Information Act 2005	K2
CO3	File the application for information.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Constitutional Framework, Objectives and Importance of the act	K1-K3	2	1-3
	1.2 Fundamental Rights and Directive Principles of State Policy		4	
	1.3 Constitutional Provisions of RTI			

UNIT	CONTENT	CL	HRS	CO
2	Development of RTI in India 2.1 Origin of the RTI Act 2005 in India	K1-K3	4	1-3
	2.2 Initiatives, Movements, Success stories and Challenges		6	
	2.3 RTI and Human Rights			
3	Various Rights 3.1 Right to Hearing, Grievance Redressal	K1-K3	4	1-3
	3.2 Right to Public Services, Transfers and Delays		6	
	3.3 Public Consultation			

BOOKS FOR STUDY

R. Majumdar, *Commentary on The Right to Information Act, 2005*, Dwivedi Law Agency, 2020

Dr. Dewakar Goel & Dr Abha Yadav, *Right to Information - Concept, Procedure & Practice*, Uttar Pradesh: Universal Law Publishing, 2015

BOOKS FOR REFERENCE

Dr. Jyoti Rattan, *Right to Information Act, 2005*, New Delhi: Bharat Publication, 2022

Taxmann,s Bare Acts, *Right to Information Act 2005* Chennai: Taxmann, 2016

S.R.Khaneja, *A Practical Handbook on Right To Information Act*, The Book Line, 2011

WEB SOURCES:

<https://rti.gov.in/> <https://www.iitgn.ac.in/RTI/RTI-Guidelines.pdf>

<https://study.com/academy/lesson/right-to-information-rti-act-impact-in-india.html>

JOURNALS

Journal of Political Sciences & Public Affairs Indian

Journal of Public Administration

Journal of Humanities and Social Science

PATTERN OF ASSESSMENT

Continuous Assessment Test

Total Marks : 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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C – 150 words	K3	$2 \times 5 = 10$	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

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DEGREE PROGRAMMES**

SYLLABUS

(Effective from the Academic Year 2023-2024)

SEED FINANCE

CODE: 23BF/GE/SF22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To educate students about various sources of SEED funding
- To enable students to create financial models and to prepare a sound business plan that attract SEED funding
- To familiarise students with the various entrepreneurial schemes

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Recall the fundamental concepts and principles of SEED finance	K1
CO2	Outline the different schemes for financing entrepreneurial venture	K2
CO3	Identify sources of finance for new ventures.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to SEED Finance	K1-K2	3	1-2
	1.1 Understanding SEED Finance, Importance of SEED Finance in Entrepreneurship, Key Financial Metrics for Startups			
	1.2 Opportunity Identification and Selection, Idea Generation-Sources	K1-K3	2	1-3
	1.3 Project Formulation- Importance and Elements		2	
	1.4 Project Feasibility Analysis- Factors and Report		2	
	1.5 Business Plan – Contents and Significance of Business Plan		2	

UNIT	CONTENT	CL	HRS	CO
2	Sources of Seed Finance 2.1 Sources of SEED Funding - Angel Investors, Venture Capital, Crowdfunding, Boot Strapping, Grants and Government Programs	K1-K3	7	1-3
3	Aiding Seed Finance 3.1 Banking Institutions- Commercial , Co-operative, Rural	K1-K3	3	1-3
	3.2 Non-Banking Institutions Assisting Entrepreneurs		3	
	3.3 Development Financial Institutions – SIDBI, Mudra		2	

BOOKS FOR STUDY

Aashok Soota & Gopalan S.R., *Entrepreneurship Simplified*, New Delhi: Penguin Portfolio, 2021
Holt, *Entrepreneurship – New Venture Creation*, Noida: Pearson Publication 2016

BOOKS FOR REFERENCE

Alemany Lusía, *Entrepreneurial Finance: the Art and Science of Growing Ventures*, New Delhi: Cambridge University Press, 2018
Khanka S S, *Entrepreneurial Development*, New Delhi: S. Chand & Co, 2015
Gibbons Gary, *Entrepreneur Finance: A Global Perspective*, New Delhi: Sage Publications, 2014

JOURNAL

Journal of Entrepreneurial Finance
Venture Capital Journal

WEB RESOURCES

www.ocw.mit.edu.com
www.nptel.ac.in
www.xlri.com

PATTERN OF ASSESSMENT

Continuous Assessment Test

Total Marks: 25

Duration: 60 minutes

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Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: BANKING, FINANCE AND ENTREPRENEURSHIP

SYLLABUS

(Effective from the Academic Year 2023-2024)

FAMILY BUSINESS MANAGEMENT

CODE: 23BF/UI/FB23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To provide an understanding on family business dynamics
- To expose students to the opportunities and challenges associated with family business
- To familiarize students with the succession planning in a family owned business
- To enable students to learn to adopt effective conflict resolution strategies
- To acquaint students on the ways to foster innovation in family business

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the importance of Family Business	K1
CO2	outline the nature of conflicts in the family business	K2
CO3	develop next generation leaders as Successor for Family Business.	K3
CO4	analyze the importance of Governance in Family Business Challenges.	K4
CO5	describe future of family business in Institutional change.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	CO
1	Introduction to Family Business		
	1.1 Nature, Uniqueness and Importance of Family Business	K1-K3	1-3
	1.2 Characteristics of Family Business		
	1.3 Advantages and Disadvantages of Family Business	K1-K4	1-4
2	Ownership Challenges and Family Governance		
	2.1 Family Governance: Structure, Challenges to Family Governance	K1-K3	1-3
	2.2 Managing the challenges of Succession	K1-K5	1-5
	2.3 Enterprise Sustainability		

UNIT	CONTENT	CL	CO
3	Conflict Resolution and Communication	K1-K5	1-5
	3.1 Types of Conflicts in Family Businesses		
	3.2 Conflict Resolution Strategies		
	3.3 Effective communication within the Family and Business		
4	Managing Succession	K1-K5	1-5
	4.1 Ownership Succession Planning	K1-K4	1-4
	4.2 Challenges in Succession Planning	K1-K5	1-5
	4.3 Identifying and Preparing Successors		
5	The Future of Family Business	K1-K5	1-5
	5.1 New Leaders of the Evolution - Three states of Evolution - Continuity and Culture - Changing the Culture		
	5.2 The change Formula - Organization Development Approaches to Change		
	5.3 Commitment planning - Organic Competencies and Business's Future - Thriving through Competition – Institutionalizing the Change		

BOOKS FOR STUDY

Rajiv G. Agarwal, *Family Business Management*, New Delhi: Sage Publications, 2022
Raju Swamy, *Family Business in India*, Chennai: Notion Press, 2021

BOOKS FOR REFERENCE

Abirami Duraiswamy, *Family Business for Next Generation Leaders*, Chennai: Notion Press, 2022
Ajay Sharma, *How to Survive in a Family Business*, UK: Penguin Portfolio, 2021
Ernesto J. Poza, Mary S. Daughterty, *Family Business*, New Delhi: Cengage Learning, 2015
Steve Legler, *Shift your Family Business*, Canada: FriesenPress, 2014

WEB SOURCES

<http://www.mbaexamnotes.com/family-business.html>
<https://khatabook.com/blog/family-business/>
<https://businessjargons.com/family-business.html>

JOURNALS

Journal of Family Business Management
Family Business Review

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B – Not Exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions Internal Choice 2 K4 questions Internal Choice
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

**B.Com. DEGREE
COMMERCE
(CHOICE BASED CREDIT SYSTEM)
SHIFT II**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI–600 086

DEPARTMENT OF COMMERCE

PROGRAMME DESCRIPTION

B.Com. (GENERAL)

The B.Com. (General) degree programme equip students with the knowledge and technical skills necessary to understand and participate in the modern business world. The programme allows the students' to critically evaluate and improve decision making skills.

It provides foundation for students who aspire to pursue professional courses such as CA, ICWA, CMA, ACCA, CFA and MBA. It enables the students to equip themselves for careers. It enables them to develop entrepreneurial skills and thus manage their own business effectively. To strengthen their skills and knowledge, workshops, seminars, guest lectures, business quizzes and mock interviews are conducted during the course of study. Apart from the academics, multiple cultural and social activities such as intra-departmental, intercollegiate cultural and social and environmental awareness programmes are conducted for holistic development and to create a sense of community.

VISION OF THE DEPARTMENT

The Department shares the vision of the College and aims at academic excellence integrating ethical, professional and personal skills that promote women to be well equipped to meet the global challenges in the business world.

MISSION OF THE DEPARTMENT

- ❖ To kindle in the students the curiosity to explore and acquire business knowledge pertaining to Commerce.
- ❖ To sensitize students about economic, social and ethical issues prevalent in the business environment.
- ❖ To work towards the integration of quality, creativity and emotional stability of the students.
- ❖ To contribute to the transformation of the less privileged students by making them employable and financially independent.

PROGRAMME SPECIFIC OUTCOMES (PSOS)

B.COM (GENERAL)

On successful completion of the B.Com. Programme, the students will be able to

PSO 1	acquire Fundamental knowledge in the arena of Business Management, Marketing, Accounting and to understand the web based business models and its applications
PSO 2	develop leadership qualities and managerial skills to be globally competent and spearhead entrepreneurial ventures.
PSO 3	Be acquainted with principles of various laws relating to formation and conduct of business.
PSO 4	Demonstrate interpersonal communication, business etiquette and relationship building skills.
PSO 5	Understand the importance of Ethics in Business, Social Responsibility, Corporate sustainability and impact of globalization

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Com. General 2023 - 2024 Shift II														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4									6	8
Part - II														
English	3	4	3	4									6	8
											Total		12	16
Part - III														
Major Core	3	4	4	5	4	5	4	5	4	5	4	5	23	29
	3	4	4	5	4	5	4	5	4	5	4	5	23	29
					4	5	3	4	3	4	4	5	14	18
					3	4	3	4	3	4	3	4	12	16
Allied Core	5	5	5	5	5	6	5	5					20	21
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		107	129
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3	3	3									6	6
Soft Skills (EL)	3	3											3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library								1		1			0	2
Mentoring		1				1		1		1		1	0	5
											Total		4	9
Total	26	30	27	30	24	30	24	30	23	30	25	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. DEGREE: COMMERCE (GENERAL) - SHIFT II

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23CM/MC/FA13	Financial Accounting	3	3	1	0	3	50	50	100
23CM/MC/PM13	Principles and Practice of Management	3	3	1	0	3	50	50	100
Allied Core offered to students of Computer Science by Dept. of CM(Shift II)									
23CM/AC/EN15	Entrepreneurship-New Venture Creation	5	5	0	0	3	50	50	100
23CM/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
Allied Core offered to students of Commerce(General - II) by Dept. of EC									
23EC/AC/BE15	Business Economics	5	5	0	0	3	50	50	100
SEMESTER-II									
23CM/MC/CT24	Cost Accounting	4	4	1	0	3	50	50	100
23CM/MC/MG24	Marketing	4	4	1	0	3	50	50	100
23CM/AC/BS25	Business Statistics	5	5	0	0	3	50	50	100
Allied Core offered to students of Computer Science by Dept. of CM(Shift II)									
23CM/AC/AB25	Accounting for Business	5	5	0	0	3	50	50	100
23CM/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23CM/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23CM/MC/BL34	Business Law	4	4	1	0	3	50	50	100
23CM/MC/FS34	Financial System	4	4	1	0	3	50	50	100
23CM/MC/MA34	Management Accounting	4	4	1	0	3	50	50	100
23CM/MC/ET33	Business Ethics and Social Responsibility	3	3	1	0	3	50	50	100
23CM/AC/CB35	Computer Applications in Business	5	2	0	4	3	50	50	100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23CM/MC/FM44	Financial Management	4	4	1	0	3	50	50	100
23CM/MC/BK43	Banking Theory and Practice	3	3	1	0	3	50	50	100
23CM/MC/CL44	Company Law	4	4	1	0	3	50	50	100
23CM/MC/HR43	Human Resource Management	3	3	1	0	3	50	50	100
Allied Core offered to students of Commerce (General -Shift II) by Dept. of MT									
23MT/AC/MT45	Mathematics for Commerce	5	5	0	0	3	50	50	100
	Major Elective I								

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. DEGREE: COMMERCE (GENERAL) - SHIFT II

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-V									
23CM/MC/BR54	Business Research	4	4	1	0	3	50	50	100
23CM/MC/IT54	Income Tax Law and Practice	4	4	1	0	3	50	50	100
23CM/MC/EM53	E-Enterprise Management	3	3	1	0	3	50	50	100
23CM/MC/BC53	Business Communication	3	3	1	0	3	50	50	100
	General Elective III								
	SAP / SL								
Interdisciplinary Core (CM(Gen.Shift II) and A&F to students of CM(Gen.Shift II) and A&F									
23ID/IC/SI55	Social Finance and Impact Investing	5	5	1	0	3	50	50	100
SEMESTER-VI									
23CM/MC/CA64	Corporate Accounting	4	4	1	0	3	50	50	100
23CM/MC/SM63	Supply Chain and Logistics Management	3	3	1	0	3	50	50	100
23CM/MC/ED64	Entrepreneurial Development	4	4	1	0	3	50	50	100
23CM/MC/AG64	Auditing	4	4	1	0	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23CM/ME/OB45	Organizational Behaviour	5	5	0	0	3	50	50	100
23CM/ME/AM45	Advertising and Media Management	5	5	0	0	3	50	50	100
23CM/ME/RM45	Retail Management	5	5	0	0	3	50	50	100
23CM/ME/SP45	Security Analysis and Portfolio Management	5	5	0	0	3	50	50	100
23CM/ME/AA45	Advanced Corporate Accounting	5	5	0	0	3	50	50	100
23CM/ME/CB45	Consumer Behaviour	5	5	0	0	3	50	50	100
23CM/ME/RG45	Rural Marketing	5	5	0	0	3	50	50	100
23CM/ME/MA45	Marketing Analytics	5	5	0	0	3	50	50	100
23CM/ME/IT45	Indirect Taxation	5	5	0	0	3	50	50	100
General Electives									
23CM/GE/FI22	Fundamentals of Investment Planning	2	2	0	0	-	50	-	100
23CM/GE/CC22	Customer Care and Protection	2	2	0	0	-	50	-	100
23CM/GE/SM22	Social Media Marketing	2	2	0	0	-	50	-	100
23CM/GE/BP22	Banking Practices	2	2	0	0	-	50	-	100
23CM/GE/EF22	E-Filing of Returns	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23CM/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23CM/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23CM/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23CM/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. DEGREE: COMMERCE (GENERAL) - SHIFT II

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23CM/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23CM/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23CM/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23CM/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23CM/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Electives									
23CM/UI/NM23	New Age Marketing	3	0	0	0	3	-	100	100
23CM/UI/CR23	Consumer Rights	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023-2024)

FINANCIAL ACCOUNTING

CODE: 23CM/MC/FA13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To develop an understanding of international and Indian accounting standards and appreciate the differences between accounting frameworks.
- To provide the students conceptual knowledge about basic concepts of financial accounting.
- To equip the students with the skill in preparing Accounts for different types of business entities.
- To develop the skills to analyse financial statements and make informed business decisions based on the financial information presented.
- To enable students to prepare the financial Statements for internal and external Reporting.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	KL
CO1	explain the Conceptual Framework for Preparation of Financial Statements	K1, K2
CO2	apply the accounting concepts related to preparation of financial statements for sole proprietorship and Partnership	K3
CO3	develop the skills to prepare the different accounts with regard to Branch and Departments , Hire purchase and Joint ventures	K4
CO4	solve the financial statements with adjustments, Interdepartmental Transfer of Goods and computation insurance claim for Loss of Stock and Profit.	K5
CO5	create a complete record of Business transactions	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Conceptual Framework for Preparation of Financial Statements 1.1 Introduction to Accounting Standards and Indian Accounting Standards 1.2 Accounting Standards - International Accounting Standards, Accounting Standards in India – Objectives, Process, Accounting Standards Board, Scope & Application of AS – 1,2,4,5,9,10,26 & 29 in Preparation of Financial Statements 1.3 Difference between Accounting Standards and Indian Accounting Standards 1.4 Preparation of Final Accounts of Sole Proprietor 1.4.1 Closing Entries and Adjustment Entries 1.4.2 Adjustments - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit before and after Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax	K1, K2 K1, K2 K1, K2 K3 – K6	8	1 -5
2	Conversion of Partnership 2.1 Amalgamation – Accounting Procedure 2.1.1 Closing the Books of the Old Firm 2.1.2 Opening the Books of the New Firm 2.2 Conversion of Partnership Firm into a Company and sale to a Company 2.3 Apportionment of Share among the Partners 2.4 Limited Liability Partnership	K1 – K4 K3 – K6 K3 – K5 K1, K2	10	1 -5
3	Branch Accounts and Departmental Accounts 3.1 Branch Accounts 3.1.1 Features 3.1.2 Methods of Accounting - Debtors System, Stock and Debtor System 3.2 Independent Branches – Features, Adjusting Entries in the Books of Head office and Branch 3.3 Departmental Account 3.3.1 Concept and Distinction between Departments and Branches 3.3.2 Preparation of Departmental Accounts Preparation of Departmental Trading and Profit and Loss Account 3.3.3 Inter Departmental Transfer of goods at cost, Cost Plus Profit and at Selling Price and Elimination of Unrealised Profit.	K1, K2 K3 – K5 K1 – K3 K1 – K3 K3 – K6 K3 – K5	12	1 -5

UNIT	CONTENT	CL	HRS	CO
4	Accounting for Hire Purchase and Joint Venture 4.1 Meaning- Features of Hire Purchase Agreement - Distinction between Hire Purchase and Sale 4.1.1 Interest calculations 4.1.2 Recording transaction in the books of Hire Purchaser and the Hire Vendor 4.2 Default and Repossession - Partial Repossession and Complete Repossession 4.3 Joint Venture- Accounting Procedures	K1 – K3 K1 – K3 K3 – K6 K3 – K5 K1 – K3	10	1-5
5	Insurance Claim for Loss of Stock and for Loss of Profit 5.1 Insurance Claim for Loss of Stock 5.1.1 Concept of Under Insurance and Average Clause 5.1.2 Computation of claim -with Price Change, Consideration of Unusual Selling Line and Price Reduction 5.2 Insurance Claim for Loss of Profit 5.2.1 Concept – Insured and Uninsured Standing, Gross Profit Rate, Short Sales and Increased Cost of Working, Average Clause 5.2.2 Computation of Claim	K1 – K4 K1 – K6 K2 – K5 K1 – K6	12	1-5

BOOKS FOR STUDY

Reddy, T. S and A. Murthy, *Financial Accounting*. Margham, 2023

Gupta R.L and Radhaswamy M, *Advanced Accountancy (Vol. I)* Sultan Chand and Sons, 2013

BOOKS FOR REFERENCE

V.K. Gupta and Gupta R.L, *Financial Accounting (Vol. I)* Sultan Chand and Sons, 2016

Goyal V.K, *Financial Accounting.4th Edition*, PHI, 2012

Jain S. P and K. L Narang, *Practical Problems in Advanced Accountancy*, Kalyani, 2016

Maheshwari S. N and Suneel K Maheshwari, *Financial Accounting 11th Edition*, 2018

M Hanif, A Mukherjee, *Financial Accounting 5th Edition*. Tata Mc Graw Hill 2020

Chatterjee B.D. and Jain Jinender, *Illustrated Guide to Indian Accounting Standards, 6th edition*, Taxmann's 2021

JOURNALS

Journal of the Institute of Chartered Accountants of India.

International Journal of in Management and Financial Accounting

Journal of Accounting and Finance: Research Development Association, Jaipur

Journal of Finance - Sage

Journal of Financial Reporting Accounting, Auditing and Finance

WEB RESOURCES

www.icaai.org

www.emeraldinsight.com

www.accaglobal.com

www.journals.elsevier.com

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/FA13												
	Course Title: Financial Accounting												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	1	3	1	1	1	3	2	3	2	1
CO 2	3	2	1	1	3	1	1	1	3	2	2	2	1
CO 3	3	1	1	1	3	1	1	1	3	2	2	2	2
CO 4	3	2	2	1	3	2	1	1	3	2	2	2	2
CO 5	3	2	1	1	3	2	1	1	3	2	2	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 -2024)

PRINCIPLES AND PRACTICE OF MANAGEMENT

CODE: 23CM/MC/PM13

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To acquaint students with the management practices of the past and present
- To provide an understanding of the recruitment, selection, motivation and controlling strategies in organisation
- To provide students a conceptual and practical foundation for managing a business
- To enable students to appreciate the contribution made by Management thinkers
- To familiarise students with the recent development in Management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the concepts of Accountability, Centralization and working together in teams	K1, K2
CO2	apply the acquired knowledge of management in the corporate sector & to comprehend the role of effective leaders in an organization	K3
CO3	analyze the functions of Management in organizations	K4
CO4	apply theoretical concepts into the practical management functions	K5
CO5	develop the leadership potential and managerial skills to make effective managerial decision-making	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Management Principles 1.1 Meaning, Nature, Scope and Importance of Management 1.2 Management as Science or Art - Management as Profession - Universality of Management 1.3 Management Principles, Functions of Management, Management Roles - Levels of Management, Management Skill- Social Responsibility 1.4 Evolution of Management thoughts, Scientific Management, Fayol's Principles of Management, Bureaucracy, Hawthorne Experiment, Contribution of Peter Drucker.	K1 – K4 K2 – K4 K2 – K5 K3 – K6	10	1-5
2	Planning and Decision Making 2.1 Planning – Meaning, Nature and Importance, Planning Process 2.2 Types of Planning - Measures of Effective Planning 2.3 Barriers to Effective Plan 2.4 Management by Objectives 2.5 Decision Making – Meaning - Types of Decisions - Decision Making Process Individual vs. Group Decision Making - Decision Making Conditions – Creativity	K1 – K3 K2 – K5 K3 – K6 K3 – K6 K3 – K6	12	1-5
3	Organizing, Communication and Human Resources 3.1 Organizing - Meaning, Organization Structure 3.2 Forms of Organization Structure, Departmentation, Task Force- Virtual Organization 3.3 Dynamics of Group Behavior, Influence of Group on Individual and Group Decision Making 3.4 Staffing - Meaning, Man Power Planning, Recruitment and Selection- Training and Development 3.5 Communication- Meaning, Nature, Elements of Communication, Methods of Communication 3.6 Relevance of Information Technology	K1 – K3 K2 – K5 K3 – K6 K3 – K6 K3 – K6	10	1-5
4	Motivation 4.1 Direction- Meaning, Nature, Scope and Principles of Direction, Supervision 4.2 Motivation – Meaning, Nature and Importance of Motivation , Theories of Motivation(Maslow's Theory of Hierarchical Needs, Herzberg's two-factor Theory, Vroom's Theory of Expectancy) 4.3 Job Design, Job Enrichment, Job Satisfaction, Quality of Work Life 4.4 Leadership-Meaning, Importance, Leadership Theories, Leadership Styles	K1 – K3 K2 – K5 K3 – K6 K3 – K6	10	1-5

UNIT	CONTENT	CL	HRS	CO
5	Controlling 5.1 Controlling- Meaning, Importance, Controlling Process, Types of Control 5.2 Essential of Effective Control System, Behavioral Importance of Control - Control Techniques, Quality Circles	K1 – K5 K2 – K6	10	1-5

BOOKS FOR STUDY

Koontz, Heinz Weihrich, A Ramachandra Aryasri, *Principles of Management*, McGraw Hill Education, 2nd Edition, 2015.

L.M. Prasad, *Principles & Practices of Management*, Sultan Chand & Sons, New Delhi, 2020

BOOKS FOR REFERENCE

C.B. Gupta, *Business Management*, Sultan Chand & Sons, 2018

R.S.N. Pillai, S. Kala, *Principles and Practice of Management*, S. Chand & Co., 2013

Parkinson C N and Rustomji M K and Sapre S A, *Great Ideas in Management*, 2010

S. K. Mandal, *Management: Principles and Practice*, Jaico Publishing House, 2013

Khusboo Manoj, *Principles and Practices of Management*, Anmol Publication, 2011

JOURNALS

International Journal of Management Review

Academy of Management Journal

Journal of Management

Strategic Management Journal

SSRN-E-Journal

WEB RESOURCES

www.hbr.org

www.strategy-business.com

www.mindtools.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/PM13												
	Course Title: Principles and Practice of Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	2	2	1	1	2	1	3	3	2
CO 2	3	3	2	2	3	3	1	1	3	2	3	3	2
CO 3	3	3	3	2	2	2	2	2	3	2	2	3	2
CO 4	1	3	2	1	3	3	2	2	2	3	2	2	1
CO 5	1	3	2	1	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Allied Core Course Offered by the Department of Commerce Shift II (General)
for B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENTREPRENEURSHIP - NEW VENTURE CREATION

CODE: 23CM/AC/EN15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide comprehensive knowledge to the students on the various aspects related to entrepreneurial development.
- To familiarize students with the practical knowledge of establishing a business.
- To help students to understand the stages in the process of setting up the business.
- To enable students to understand the skills required for setting up a new business.
- To acquaint students with the knowledge of E-business.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	relate and understand the important elements for the success of entrepreneurial ventures	K1, K2
CO2	solve the challenges in the process of setting up a Business	K3
CO3	analyse the business environment in order to identify business opportunities	K4
CO4	evaluate the effectiveness of different entrepreneurial strategies	K5
CO5	formulate a new business proposal	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Business – Meaning and Forms of Business Organization 1.2 Role of Small Business in Economic Development 1.3 Conceptual Definition of Entrepreneur, Entrepreneurship, Characteristics and Functions of Entrepreneur 1.4 Types and Functions of Entrepreneur 1.5 Factors influencing entrepreneurship development – Internal and External 1.6 Barriers to Entrepreneurship	K1- K3 K3 K1-K4 K1-3 K1-3 K3	10	1 1-2 1-3 1-3 1-3 1-3
2	Enterprise Launching 2.1 New Business Launching - Stages 2.2 Opportunity Identification and Selection 2.3 Idea Generation – Sources and the process of Idea Selection 2.4 Business Plan – meaning, contents and significance of business plan 2.5 Assessment of project feasibility - Dealing with basic and initial problems of setting up of Enterprises 2.6 Drafting a Model Project / Business Plan	K 1-3 K 1-4 K1-6 K1-3 K1-6 K1-6	15	1-2 1-3 1-5 1-3 1-5 1-5
3	Financing of Enterprise 3.1 Meaning, Need for Financial Planning 3.2 Sources of finance – Internal, External sources 3.3 Institutions Assisting Business Enterprise – Government, Banking and Non Banking Institutions, Lease Financing and New Venture Financing	K1-3 K1-3 K1-3	15	1-3 1-3 1-3
4	Management of Enterprise 4.1 Management – Meaning and Functions of Management 4.2 Production Management – Product Design, Plant Layout and Location 4.3 Inventory Management – Meaning, Objectives and Benefit 4.4 Marketing Management – Problem of Marketing of Small Enterprises	K1-3 K2 K1 K1-4	15	1-3 1-3 1 1-3

5	E – Business 5.1 Meaning, Development and the Economic Influence of the E-Business 5.2 Fundamentals in E -Business 5.3 Planning E-Products and Services 5.4 Operation of E-Business - E – Payment and E-Security	K1-2 K 1-3 K 1-3 K 1-3	10	1-2 1-3 1-3 1-3
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BOOK FOR STUDY

S.Khanka, Entrepreneurial Development, S. Chand & Co, New Delhi, 2016

BOOKS FOR REFERENCE

Nanda Gopal V B, Gordon. E, Gupta Entrepreneurial Development, Vikas Publishing 2015

Jayashree Suresh, Entrepreneurial Development, Margham Publications, New Delhi, 2012

Charantimath, Entrepreneurship development & Small business enterprise, Pearson Edn., New Delhi, 2013

Vasant Desai, Dynamics of Entrepreneurial Development and Management, Himalaya Publishing Company, 2012

JOURNALS

Journal of development entrepreneurship

Journal of entrepreneurship education

Journal of Business venturing

WEB RESOURCES

<http://www.entrepreneur.com>

<http://www.businessesforsale.com>

<http://www.sba.gov>

<http://joe.sagepub.com/content/19/2.toc>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

SECTION	Knowledge Level	MARKS	Pattern
A	K1	4	(2 x 2=4)
B	K2	6	(3 x 2 = 6)
C	K3	10	(1 x 10 =10) (Choice)
D	K4	10	(1 x 10 =20) (Choice)
E	K5	20	(1 x 20 =20) (Choice)
		50	

Other Components: Total Marks : 50

Categories of Component	Knowledge Level	Marks
Quiz/MCQ	K1 & K2	20
Assignment	K3 & K4	20
Critique/Seminar/Presentation	K5 & K6	10

End Semester Examination:**Total Marks: 100****Duration: 3 hours**

SECTION	Knowledge Level	MARKS	Pattern
A	K1	10	(5x 2=10)
B	K2	10	(5 x 2 = 10)
C	K3	20	(2 x 10 =20) (Choice)
D	K4	20	(2 x 10 =20) (Choice)
E	K5	40	(2 x 20 =40) (Choice)
		100	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23CM/AC/EN15												
	Course Title: Entrepreneurship – New Venture Creation												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23CM/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group Discussions
- Group Presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W /B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4

UNIT	CONTENT	CL	Hrs	CO
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:

Continuous Assessment:

Total Marks:50

Two Classroom Tasks

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.A. DEGREE: BRANCH IV -ECONOMICS

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS ECONOMICS

CODE: 23EC/AC/BE15

CREDITS: 5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the fundamental concepts, principles, and theories of economics.
- To enable students to analyse and evaluate supply decisions in various business contexts.
- To equip students with the skills to calculate and analyse cost and revenue data for business decision-making.
- To enable students to analyse the behavior of firms and the market outcomes under various market structures.
- To explore the role of government policies in influencing business cycles and promoting macroeconomic stability.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall and describe concepts in economics that relate to business decisions making	K1,
CO2	identify and illustrate how various micro and macroeconomic factors affect the business environment	K2
CO3	apply the standard analytical tools of applied economic analysis to business situations	K3
CO4	examine the role of consumer and producer behavior and market structures in business decision making	K4
CO5	evaluate the impact and related policy solutions of microeconomic and macroeconomic factors.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Unit 1 Introduction	K1 - K4	18	1-5
	1.1 Basic Economic problems-Role of price Mechanism	K1 – K4		
	1.2 Tools for Economic Analysis-Indifference Curves, Isoquants, Budget Line and Production Possibility Frontier	K1 – K4		
	1.3 Law of demand, determinants of demand, change in demand and amount demanded	K1 – K4		
	1.4 Elasticity of demand –Types – Price elasticity – factors influencing elasticity of demand, importance of price elasticity of demand, Income and Cross elasticity. Applications of elasticity of demand	K1 - K5		
	1.5 Estimating demand –Importance and Scope of demand forecasting –Techniques of demand forecasting -complete enumeration survey, sample survey, Delphi Technique, Statistical methods – trend analysis, regression	K1 – K5		
2	Unit 2 Supply and Production	K1 - K4	10	1-5
	2.1 Law of Supply and its determinants	K1 – K3		
	2.2 Elasticity of supply	K1 – K4		
	2.3 Short and Long run Production Functions- Law of diminishing returns- Returns to scale	K1 – K4		
	2.4 Producers Equilibrium-Least cost combination of factors	K1 – K4		
3	Unit 3 Cost and Revenue	K1 – K4	12	1-5
	3.1 Concepts of Cost and Revenue	K1 – K4		
	3.2 Relation between average and marginal cost curves	K1 – K4		
	3.3 Long run Average Cost Curves and Marginal Cost Curves	K1 – K4		
	3.4 Economies of scale (internal and external economies and diseconomies)	K1 - K4		
	3.5 Break-Even Analysis –An Overview	K1 – K4		
4	Unit 4 Objectives of the Firm and Market Structure	K1- K2	12	1-5
	4.1 Profit, Growth, Sales, Utility Maximization (Brief Knowledge)	K1- K5		
	4.2 Perfect Competition ,Monopoly, Monopolistic Competition ,Oligopoly- Features	K1 – K4		
	4.3 Equilibrium and price determination under Oligopoly-Kinked Demand, Price Leadership, Cartels	K1 – K4		
	4.4 Importance of advertising and selling costs	K1 – K4		
5	Unit 5 Business Cycles and Policies	K1 – K4	13	1 -5
	5.1 Business Cycles-Meaning, Characteristics, Types, Causes	K1 - K4		
	5.2 Inflation-Types of Inflation	K1 – K4		
	5.3 Causes and Effects of Inflation	K1 – K5		
	5.4 Measures to Correct Economic Fluctuations- Monetary and Fiscal Policy			

BOOKS FOR STUDY

Ahuja H.L. Business Economics Micro, New Delhi: S. Chand and Co,2010.
Gregory,N. Mankiw. Principles of Macroeconomics: New York, Worth Publishers Press 2009

BOOKS FOR REFERENCE

Robert, S.Pindyck, Daniel and L. Rubinfeld, Prem L. Micro Economics. New Delhi: Pearson Education, 2005
Richard. T. Froyen. Macroeconomics-Theories and Policies. New Delhi: Pearson2012
Samuelson, Paul. A. and Nordhaus William D. Economics, New York: McGraw Hill. 2018
Sundharam K.P.M and E.N Sundharam. Micro Economics. New Delhi: Sultan Chand, 2009.
Seth, M.L. Micro Economics, Agra: Lakshmi Narain Agarwal Educational Publishers, 2009.

JOURNALS

Journal of Economics and Business
Journal of Microeconomics

WEB RESOURCES

<http://home.manhattan.edu/~fiona.maclachlan/costcurves.pdf>
<http://www.nber.org/chapters/c2662.pdf>

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5 x 2 = 10 (50 words each) concept & definition – all compulsory
	K2	10	5 x 2 = 10 (50 words each) 5 out of 6 questions
B	K3	10	2 x 5 = 10 (250 words each) 2 out of 3 questions
	K4	10	2 x 5 =10 (250 words each) 2 out of 3 questions
C	K5	10	1 x10 =10 (600 words each) 1 out of 2 questions

Other Components: **Total Marks: 50**

Quiz/Group Discussion/Presentation/Case Studies

End-Semester Examination: **Total Marks: 100** **Duration: 3 Hours**

Section	Knowledge Level	Marks	Pattern
A	K1	20	10 x 2 = 20 (50 words each) concept & definition – all compulsory
	K2	20	10 x 2 = 20 (50 words each) 10 out of 12 questions – short answers
B	K3	20	4x 5 =20 (250 words each) 4 out of 6 questions
	K4	20	4 x 5 = 20 (250 words) 4 out of 6 questions
C	K5	20	2 x10 =20 (600 words each) 2 out of 4 questions

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23EC/AC/BE15												
I	Course Title: BUSINESS ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 2	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 3	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 4	3	3	3	2	3	2	2	2	2	3	1	2	2
CO 5	3	3	3	2	3	2	2	2	2	3	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

COST ACCOUNTING

CODE: 23CM/MC/CT24

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students an understanding of the basic concepts of cost accounting
- To classify the elements of cost and to determine the various estimates of cost.
- To expose students to the practical application of Costing
- To enable students to ascertain product and service cost through various methods
- To apply various costing techniques in the preparation of tenders and quotations.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Explain the basic concepts of cost accounting	K1
CO2	Solve problems relating to Process and Operating Costing	K2
CO3	Analyse Material, Labour and Overhead Cost of production	K3
CO4	Estimate the cost price, selling price and the profit margin	K4
CO5	Prepare Cost Sheets, Tenders and Quotations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Meaning, Objectives and Scope of Cost Accounting 1.2 Introduction to cost Audit and Records and Cost Standards 1.3 Advantages and Limitations of Cost Accounting, Difference Between Financial accounting and Cost Accounting 1.4 Unit Costing - Cost Center and Cost Units- Methods of Costing, Elements of Cost, Cost Concepts and Classification of Cost 1.4.1 Preparation of Cost Sheet, Quotations or Tenders	 K1, K2 K1, K2 K1, K2 K2 – K5	15	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	2.1 Material Cost and Material Control 2.1.1 Computation of Material Cost and Accounting Treatment for Normal, Abnormal Loss 2.2 Essentials of Material Control, Purchase Control – Purchase Procedure 2.2.1 Store Control :Techniques of Inventory Control – Economic Order Quantity, Level Setting 2.2.2 Issue Control: Methods of Material Issue – First In First Out, Last In First Out, Average Cost - Simple and Weighted Average Cost.	K1 –K2 K1 –K4 K1 –K2 K1 – K3 K2 – K5	13	CO1-5
3	Labour Cost, Remuneration and Incentives 3.1 Computation of Labour Cost with Overtime and Idle Time and Computation of Labour Turnover 3.2 Methods of Remuneration- Time Rate System, Piece Rate System, Taylor’s Differential Piece Rate System. 3.3 Incentive Plans -Halsey Premium Plan, Rowan Premium Plan	K1 – K3 K3 – K4 K3 – K4	13	CO1-4
4	Overheads 4.1 Importance and Classification of Overhead Costs 4.2 Apportionment and Allocation of Overheads 4.2.1 Primary Distribution of Overheads 4.2.2 Secondary Distribution of Overheads- Direct Distribution, Reciprocal and Non Reciprocal Methods 4.3 Methods of Absorption of Overheads 4.3.1 Direct Labour Hour Rate 4.3.2 Machine Hour Rate 4.3.3 Activity Based Absorption	K1, K2 K3 – K5 K3 – K5	11	CO1-5
5	Process and Operating Costing 5.1 Process Costing 5.1.1 Meaning and Features of Process Costing 5.1.2 Process Losses and Gains – Accounting Treatment of Normal and Abnormal Wastage 5.1.3 Inter-Process Profit 5.2 Operating Costing - Transport Costing only 5.3 Activity Based Costing (Theory only)	K1 – K5 K1 – K5 K1 - K2	13	CO1-5

BOOKS FOR STUDY

Jain, S.P. and Narang K.L. *Cost Accounting*. New Delhi: Kalyan, 2023.

Reddy, T.S and A. Murthy. *Cost Accounting*. Margham, 2020.

BOOKS FOR REFERENCE

M.Y.Khan and P.K.Jain, *Cost Accounting*, McGraw Hill, 2017

Maheswari, S.N and S.N.Mittal, *Cost Accounting Theory and Problems*, New Delhi:

Sultan Chand 2015.

Ravi M. Kishore. *Cost and Management Accounting* Taxmann, 2016.

M.N.Arora, Priyanka Katyal. *Cost Accounting*. New Delhi: Sultan Chand, 2016

WEB SOURCES

icwaijournal@hotmail.com

www.accaglobal.com

JOURNALS

Cost Accounting Standards - The ICWA of India

Management Accountant - The ICWA of India

Indian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/CT24												
	Course Title: COST ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	3	3	1	1	1	3	2	3	1	1
CO 2	2	3	2	1	3	1	1	1	3	2	3	1	1
CO 3	3	3	2	1	3	2	1	2	3	2	3	1	1
CO 4	1	3	2	1	3	2	2	2	2	3	3	1	2
CO 5	3	3	2	2	3	2	2	1	3	2	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

MARKETING

CODE: 23CM/MC/MG24

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the role of the marketing function within a firm
- To identify the elements of the marketing mix strategies
- To describe and explain key market segmentation and targeting strategies
- To compare various marketing and pricing strategies
- To recommend and justify an appropriate mix of the 4P's to create a cohesive marketing strategy for a new product

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Comprehend the various functions and roles of Marketing	K1
CO2	Examine the varied elements of Marketing Mix	K2
CO3	Categorise the processes involved in the Development of a new Product	K3
CO4	Compare and contrast the key market segmentation methods and targeting strategies	K4
CO5	Develop a pricing/marketing strategy for introducing a new/existing product	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning, Nature, Significance and Marketing Concept Model 1.2 Functions of Marketing - Classification of Marketing	K1 – K2 K3 – K5	10	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Product Planning and Promotion 2.1 Product Planning 2.1.1 Product concept, Policy and Product Mix 2.1.2 Product Life Cycle-Stages, positioning, differentiation 2.1.3 New Product Development- Process 2.2 Promotion 2.2.1 Elements of Promotion Mix - Advertising, Personal Selling, Sales Promotion, Public Relations and Direct Marketing	K1 – K3 K2 – K5 K3 – K5 K3 – K5	14	CO1-3 CO 1-5
3	Pricing and Distribution 3.1 Pricing 3.1.1 Types of Pricing 3.1.2 Factors affecting Pricing 3.2 Distribution 3.2.1 Factors affecting Choice of Channel 3.2.2 Classification of Channel Members - Wholesaler and Retailer	K1 – K3 K2 – K5 K3 – K5 K3 – K5	14	CO1-3 CO 1-5
4	Market Segmentation and Consumer Decision making 4.1 Market Segmentation 4.1.1 Bases of Market Segmentation 4.1.2 Levels of Market Segmentation – Segment, Niche and Local 4.1.3 Market Targeting 4.2 Consumer Decision making 4.2.1 Buying decision process 4.2.2 Factors influencing buyer behaviour	K1 – K5 K1 – K5 K1 – K3 K3 – K5 K3 – K5	14	CO1-5
5	Trends in Marketing – Features and Types 5.1 Digital Marketing 5.2 Social Marketing 5.3 Rural Marketing	K1 – K5 K1 – K5 K1 – K5	13	CO1-5

BOOKS FOR STUDY

Nair, Rajan and Sanjith Nair. *Marketing*. 11th edition, New Delhi: Sultan Chand, 2015
Kotler Philip. *Marketing* 16th edition. New Delhi: Prentice Hall of India, 2022

BOOKS FOR REFERENCE

Gandhi J.C. *Marketing*. New Delhi: Tata McGraw Hill, 2009
Varshney. R.L, Dr. S.L.Gupta. *Marketing Management*. Himalaya Publishers
William J. Stanton, Micheal J. Etzel, Bruce J. Walker. *Fundamentals of Marketing*, New Delhi: Mc Graw Hill, 2009
Kavitha Sharma, Dr.Swati Agarwal, *Principles of Marketing*, Taxmann's Publication,2018

WEB SOURCES

www.yourarticlelibrary.com

www.boundless.com

www.learnmarketing.net

JOURNALS

Journal of Marketing- American Marketing Association

Journal of Marketing Education

International Journal of Marketing Studies

Indian Journal of Marketing

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	$2 \times 2 = 4$	2 K1 question	2 K1 question
B	K2 (6)	$3 \times 2 = 6$	3 K2 question	3 K2 question
C	K3 (10)	$1 \times 10 = 10$	1 K3 question	2 K3 question
D	K4 (10)	$1 \times 10 = 10$	1 K4 question	2 K4 question
E	K5 (20)	$1 \times 20 = 20$	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	$5 \times 2 = 10$	5 K1 question	5 K1 question
B	K2 (10)	$5 \times 2 = 10$	5 K2 question	5 K2 question
C	K3 (20)	$2 \times 10 = 20$	2 K3 question	3 K3 question
D	K4 (20)	$2 \times 10 = 20$	2 K4 question	3 K4 question
E	K5 (40)	$2 \times 20 = 40$	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/MG24												
	Course Title: MARKETING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	2	2	1	3	2	1	2	1
CO 2	3	3	2	2	2	3	3	1	3	2	1	2	1
CO 3	3	3	3	2	2	3	3	1	2	3	2	3	2
CO 4	2	3	3	2	2	3	2	2	2	1	2	3	3
CO 5	2	3	2	2	2	2	2	2	2	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

BUSINESS STATISTICS

CODE: 23CM/AC/BS25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To give a practical exposure to the students on the various statistical methods
- To enable students to understand, analyse and interpret the data using various statistical tools and techniques
- To equip the students to apply the various forecasting techniques
- To facilitate rational decision making through systematic analysis and interpretation
- To educate the students on the effective and efficient application of various statistical tools associated with research in business fields

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Demonstrate knowledge on various statistical techniques	K1
CO2	Compute the statistical parameters to forecast business trends	K2
CO3	Apply parametric and non-parametric tests in hypothesis testing	K3
CO4	Analyse the statistical tools and techniques to arrive at rational decisions	K4
CO5	Undertake research in various business fields	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Analysis of Time Series		14	
	1.1 Utility and Component of Time Series	K1 – K2		CO 1-3
	1.2 Methods of Measuring Trend – Graphic method, Semi Average method, Moving Average method, method of Least Squares, Second Degree Parabola and Exponential trends	K2 – K5		CO1-5
	1.2.1 Shifting the trend origin	K2 – K5		
	1.2.2 Conversion of annual trend values to monthly values			

UNIT	CONTENT	CL	HRS	CO
	1.3 Measurement of Seasonal Variation- Method of Simple Averages, Ratio-to-Trend method, Ratio-to-Moving Average method, Link Relative method.			
2	Correlation and Regression 2.1 Simple Linear Correlation Analysis – Karl Pearson’s Co- Efficient and Spearman’s Rank Correlation, Bi-variate Analysis 2.2 Partial and Multiple Correlations 2.3 Regression Analysis and Regression Equations and Estimation, Bi-variate Analysis	K1 – K5 K1 – K4 K2 – K5	15	CO1-5
3	Test of Hypothesis 3.1 Procedure for Testing Hypothesis 3.2 Test of Significance for Large Sample 3.3 Test of Significance for Small Sample	K1 – K2 K1 – K4 K2 – K5	12	CO1-5
4	Chi- square Test 4.1. Meaning and Conditions for applying Chi – Square Test 4.2 Application, Uses and Limitations of Chi – Square Test 4.2.1 Test of Homogeneity 4.2.2 Test of Independence 4.3 Yates Correction	K1 – K2 K1 – K5 K1 – K2	12	CO1-5
5	Analysis of Variance 5.1 Variance Ratio Test 5.2 Assumption of Analysis of Variance 5.3 Techniques of Analysis of Variance 5.3.1 One Way Classification Model 5.3.2 Two Way Classification Model	K1 – K3 K1 - K2 K3 – K5	12	CO1-5

BOOKS FOR STUDY

Gupta S.P., *Statistical Methods*, New Delhi, Sultan Chand and Sons, 2012
 Beri, G.C., *Business Statistics*, New Delhi, Tata Mc Graw Hill Publishing Company Ltd., 2017

BOOKS FOR REFERENCE

Agarwal Y.P., *Statistical Method, Concept, Applications and Computations*, New Delhi, Sterling Publishers Ltd., 2012
 Pillai R.S.N. & Bagavathy, V., *Statistics*, 13th edition, New Delhi, Sultan Chand & Sons, 2010
 Sharma J.K., *Business Statistics*, New Delhi, 1st edition, Pearson Education (Singapore), Pvt., Ltd., Indian Branch, 2

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/AC/BS25												
	Course Title: Business Statistics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	1	3	1	1	1	3	1	1	2	1
CO 2	2	2	3	1	2	1	1	1	3	1	1	2	1
CO 3	3	2	3	1	3	1	1	1	3	1	2	2	2
CO 4	2	2	3	1	2	2	1	1	3	1	1	2	1
CO 5	3	2	3	1	3	3	1	1	2	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Allied Core Course Offered by the Department of Commerce Shift II (General)
For B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

ACCOUNTING FOR BUSINESS

CODE: 23CM/AC/AB25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize students with the basic accounting principles
- To expose students to the importance of cost ascertainment
- To provide an understanding on the project appraisal techniques
- To enable students to take better decisions in business
- To educate students with ratio analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COS	DESCRIPTION	CL
CO1	comprehend with the basics of accounting	K1
CO2	interpret Cost analysis to understand and control expenses.	K2
CO3	apply appraisal techniques for project evaluation	K3
CO4	develop the ability to use accounting information on business decisions	K4
CO5	measure and judge the financial position of an organization through Ratio analysis	K5

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Accounting – Meaning, Objectives and Branches of Accounting 1.2 Introduction to Double Entry System 1.3 Preparation of Journal and Trial Balance 1.1 Preparation of Trading, Profit and Loss Account and Balance Sheet of a Sole Trader	K1-K2 K1-K2 K1-K4 K1-K5	15	CO 1-5
2	Cost Ascertainment 2.1 Meaning of Cost, Types of cost – Direct and Indirect 2.2 Preparation of Statement of Cost and Profit 2.3 Ascertainment of Cash Requirement – Budgets – Preparation of Cash Budget	K1-K3 K1-K5 K1-K5	10	CO 1-5

UNIT	CONTENT	CL	HRS	CO
3	Project Appraisal Techniques 3.1 Evaluation Techniques 3.2 Pay Back Period 3.3 Average Rate of Return 3.4 Net Present Value 3.5 Internal Rate of Return and Profitability Index	K1-K4 K1-K4 K1-K4 K1-K5 K1-K5	15	CO 1-5
4	Decision-Making Technique 4.1 Marginal Costing - Meaning, Advantages, Limitations, Breakeven Analysis 4.2 Cost-Volume Profit Analysis- P/V Ratio - Margin of Safety 4.3 Application – Key factor, Product Mix and Sales Mix	K1-K4 K1-K5 K1-K5	15	CO 1-5
5	Techniques for Analysing Financial Positions 5.1 Techniques for Financial Statement Analysis – Comparative Statement, Common Size Statement and Trend Analysis 5.2 Ratio Analysis – Profitability, Liquidity and Solvency	K1-K5 K1-K5	10	CO 1-5

BOOKS FOR STUDY

Jain S. P., and Narang K. L., Cost and Management Accounting, Ludhiana, Kalyani Publishers, 2006.

Reddy T.S and Murthy A, Financial Accounting, Chennai, Margham Publications, 2008.

BOOKS FOR REFERENCE

Bodhanwala J. Ruzbeh , Understanding and Analysing Balance Sheets using

Excel Worksheet, 2004, 2nd edition, Prentice- Hall of India, New Delhi

Gupta, R.L., Radhaswamy, M., Advanced Accountancy (Vol I, III & IV), 2005,

5th edition, Sultan Chand and Sons, New Delhi

Jain, S.P., K.L Narang, Advanced Accountancy (Part II), 2005, 12th edition,

Kalyani Publishers, New Delhi

Nadhani A. K. and K.K., Nadhani Implementing Tally 7.2, 2005, 1st edition

JOURNALS

International journal of accounting

The Chartered Accountant: Journal of the Institute of Chartered Accountants of India.

Indian Journal of Finance

Journal of Accounting & Finance: Research Development Association,

WEB RESOURCES

www.icaai.org

www.journals.elsevier.com

www.emeraldgroupublishing.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23CM/AC/AB25												
	Course Title: ACCOUNTING FOR BUSINESS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	1	1	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	2	2	3	2	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.C.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23CM/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.C.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23CM/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

BUSINESS LAW

CODE: 23CM/MC/BL34

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the students to the legal environment of Business
- To provide a comprehensive knowledge to the students on the procedural formalities in dealing with different aspects of business transactions
- To acquaint the students with the ability to recognize and manage legal risks
- To guide the students with the understanding of legal provisions of various enactments applicable to business.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Comprehend the complexity of the laws relating to Business	K1
CO2	Apply the fundamental legal principles behind contractual agreements.	K2
CO3	Analyse the legal risks involved in business transactions.	K3
CO4	Evaluate and confront the challenges relating to formation and operation of business	K4
CO5	Defend their business actions in the context of various case laws	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Indian Contract Act 1872 1.1 Law of Contract-I 1.1.1. Classification of Contract 1.2 Requisites of a valid contract 1.2.1. Offer and Acceptance 1.2.2. Consideration 1.2.3. Capacity to Contract 1.2.4. Free Consent 1.2.5. Legality of Object 1.3 Regulations of E-Commerce Contract – An Overview	 K1 – K3 K1 –K5 K1 –K5 K1 –K5 K1 –K5 K1 –K5 K1 –K3	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Law of Contract - II 2.1 Performance of Contract 2.2 Discharge and Remedies for a Breach of Contract 2.3 Special Contracts – Indemnity, Guarantee, Bailment and Pledge	K1 – K5 K1 – K5 K1 – K5	15	CO1-5
3	3.1 Sale of Goods Act 1930 3.1.1 Essentials for a Contract of Sale 3.1.2 Implied Conditions and Warranties 3.1.3 Transfer of Ownership and Delivery of Goods 3.1.4 Unpaid Seller- Rights 3.2 Law of Agency	K1 – K3 K1 – K5 K1 – K5 K1 – K3 K1 – K3	10	CO1-5
4	4.1 Limited Liability Partnership Act, 2008 4.1.1 Formation and Closure 4.1.2 LLP – Conversion of Partnership 4.2 Intellectual Property Rights Act 4.2.1 Meaning and Nature 4.2.2 Types of Intellectual Property	K1 – K4 K2 – K4 K1 – K4 K1 – K4	15	CO1-5
5	Competition Act 2002 5.1 Need and Objectives 5.2 Regulation of Anti-Competitive Agreements	K1 - K2 K2 - K3	10	CO1-5

BOOKS FOR STUDY

Kapoor N.D. *Elements of Mercantile Law*. New Delhi: Sultan Chand, 2020.

Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, New Delhi, S.Chand, 2015

BOOKS FOR REFERENCE

Tulsian, P.C. & Tulsian, B. *Business Law*. New Delhi: McGraw- Hill education., 2014.

Pandit M.S. and Shoba Pandit. *Business Law*. Mumbai: Himalaya, 2010.

Kuchhal , M.C. *Business Law*. New Delhi: Vikas Publications, 2013.

Singh, A. *Principles of Mercantile Law*. New Delhi: Eastern Book Company, 2012

WEB RESOURCES

www.lawctopus.com

www.indialawworld.Co

www.legalserviceindia.com

<http://www.ipindia.nic.in/>

JOURNALS

Journal of Business Law and Ethics

Journal of Intellectual Property Rights Law

National Journal of Environment Law

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/MC/BL34												
	Course Title: BUSINESS LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	3	2	3	2	3	2	3
CO 2	3	3	3	2	2	1	3	2	3	2	3	2	3
CO 3	3	3	3	2	2	1	3	2	3	2	3	2	3
CO 4	3	3	3	2	2	1	3	2	3	2	3	2	3
CO 5	2	3	3	2	2	1	3	3	3	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

FINANCIAL SYSTEM

CODE: 23CM/MC/FS34

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students with a comprehensive knowledge on the role and functions of Financial System
- To educate students about the practical relevance and importance of the Indian Financial System
- To expose students to financial intermediaries
- To highlight the importance and functions of Credit Rating agencies
- To enable the students to understand the emerging trends of Indian Financial System

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Recognize the importance of Financial Institutions and Markets	K1, K2
CO2	Examine the functions of banking and non-banking financial institutions	K3
CO3	Analyze the recent trends in Financial Services	K4
CO4	Evaluate the strengths and the relevance of Financial Instruments	K5
CO5	Create a Personal Investment portfolio	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial System 1.1 Objectives and Significance of Financial System 1.2 Functions, Organisation and Role of Indian Financial System 1.3 Components of Indian Financial System – Financial Institutions, Financial Markets, Financial Instruments and Financial Services	K1 – K3 K3 – K4 K3 – K5	10	CO1-5
2	Financial Markets 2.1 Functions of Financial Market	K1 – K3	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
	2.1 Indian Money Market, Global Money Market, Bond Market, Commodity Market, Derivative Market 2.2 Capital Market - NIM and Secondary Markets – Functions	K3 – K4 K3 – K5		
3	Financial Instruments 3.1 Significance of Financial Instruments 3.2 Types of Financial Instruments - Money 3.2.1 Market Instruments: Commercial Paper, Certificates of Deposit, Treasury Bills and Bonds, Repurchase Agreements, Euro Dollars, Banker's Acceptance 3.2.2 Capital Market Instruments: Corporate Stocks, Bonds, Gilt edged securities, Mutual Funds and Hybrid Instruments	K1 – K3 K2 – K5	15	CO1-5
4	Financial Services 4.1 Meaning, Importance, Types of Fund-based and Non-fund based Services 4.2 Mutual Funds - Importance, Functions and Types 4.3 Leasing, Factoring 4.4 Credit Rating - Importance and Functions 4.4.1 CRISIL, CARE, IICRA	K1 – K2 K1 – K5 K1 – K3 K1 – K5	15	CO1-5
5	Financial Institutions 5.1 Meaning and importance 5.2 Banking Institutions – Role and Functions 5.3 Non-Banking Institutions – Role, functions and types	K1 – K3 K1 – K4 K3 – K5	10	CO1-5

BOOKS FOR STUDY

Khan. *Indian Financial system*. Tata McGraw-Hill Education, 2017.

Gurusamy, S. *Financial Services and Markets*. Vijay Nichole Imprints, 2017.

BOOKS FOR REFERENCE

Machiraju H.R. *Indian financial system*. New Delhi: Vikas, 2017.

Mishkin, Stanley G. Eakins. *Financial Markets and Institutions*. Pearson Education India.

Murthy, D.K. Venugopal. *Indian Financial System*, 2017.

Ramesh Babu, G. *Indian financial system*. Concept, 2017.

WEB RESOURCES

www.bseindia.com

www.nseindia.com

JOURNALS

Asian journal of Research and Finance

Journal of Banking and Finance

Journal of Financial Intermediation

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/FS34												
	Course Title: FINANCIAL SYSTEM												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	2	1	3	2	3	1	2
CO 2	3	3	3	2	3	2	2	1	3	2	3	1	2
CO 3	3	3	3	2	3	2	2	1	3	2	3	1	2
CO 4	3	3	3	2	3	3	2	1	3	2	3	1	2
CO 5	2	3	3	1	3	3	2	1	3	3	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

MANAGEMENT ACCOUNTING

CODE: 23CM/MC/MA34

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable the students to analyse the financial data for effective managerial decision making
- To familiarise the students with the various budgeting techniques
- To expose the students to the practical applications of cost control concepts.
- To outline the techniques for effective planning and forecasting
- To facilitate the students to perform the analysis of variance, between actual cost and the predetermined standard cost.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Interpret the data for financial statement analysis	K1
CO2	Apply the relevant tools and techniques for cost control and effective planning	K2
CO3	Analyse the variance between actual cost and standard cost.	K3
CO4	Estimate the projections based on budgetary analysis	K4
CO5	Devise strategies for effective managerial decision making	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Management Accounting – Meaning, Definition, Nature and Scope 1.2 The difference and relationship between Management Accounting, Financial Accounting and Cost Accounting 1.3 Tools and Techniques of Management Accounting 1.4 Advantages and Limitations of Management Accounting 1.5 Duties and functions of Management Accountant, Organization for Management Accounting	 K1 – K2 K1 – K3 K1 – K4 K1 – K3 K1 – K4	 10	 CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Financial Statement Analysis and Interpretation 2.1 Meaning and Process of Financial Statement Analysis 2.2 Objectives, Types and Procedure for Analysis and Interpretation of Financial Statements 2.3 Tools of Financial Statement Analysis - Comparative Statement Analysis, Common Size Statement Analysis and Trend Analysis 2.4 Ratio Analysis – Profitability Ratios, Turnover Ratios, Short Term and Long Term Solvency Ratios, Construction of the Balance Sheet using Ratios	K1 – K2 K1 – K2 K2 – K4 K2 – K5	15	CO1-5
3	Marginal Costing and its Application 3.1 Definition, Meaning and features of Marginal Costing 3.2 Marginal Costing and Absorption Costing 3.3 Cost-Volume-Profit Analysis: Break Even analysis, Margin of safety. 3.4 Application of Marginal Costing - Decision Making: Key factor, Make or Buy, Product Mix, Operate or Shut, Fixation of Selling Price	K1 – K2 K1 – K2 K1 – K5 K1 – K5	15	CO1-5
4	Budget and Budgetary Control 4.1 Concepts of Budgets, Budgeting and Budgetary Control 4.2 Objectives, Merits and Limitations of Budgetary Control 4.3 Classification of Budgets and its Preparation – Sales Budget, Purchase Budget, Cost of Production Budget, Cash Budget, Fixed and Flexible Budget and Master Budget	K1 – K2 K1 – K2 K1 – K5	13	CO1-5
5	Standard Costing and Variance Analysis 5.1 Meaning of Standard Cost and Standard Costing, Advantages, Limitations and Application 5.2 Variance Analysis – Material, Labour, Overhead and Sales Variances	K1 – K2 K1 – K5	12	CO1-5

BOOKS FOR STUDY

Maheshwari, S.N. *Principles of Management Accounting*. New Delhi: Sultan Chand, 2020
 Reddy, T.S. and A Murthy. *Management Accounting*. Chennai: Margham, 2015

BOOKS FOR REFERENCE:

Murthy. A and Gurusamy S, *Management Accounting*, Vijay Nichole, 2013
 Pillai RSN and Bagavathi, *Management Accounting*, S. Chand, 2022
 Khan, M.Y Jain P.K, *Management Accounting*, 3rd Edition TMH, 2013

WEB RESOURCES

www.icaai.org
www.icma.com
www.aicpa.org

JOURNALS

International Journal of research in Commerce and Management
Research and Journal of Management Accounting – The ICWA of India
Management Accounting Research Journal - Elsevier
Indian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/MA34												
	Course Title: MANAGEMENT ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	1	3	3	2	1	2
CO 2	2	3	3	1	3	2	2	1	3	3	2	2	2
CO 3	3	3	3	1	3	2	2	1	3	3	2	1	2
CO 4	2	3	3	1	3	3	2	1	3	3	2	1	2
CO 5	2	3	3	1	3	3	3	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

BUSINESS ETHICS AND SOCIAL RESPONSIBILITY

CODE: 23CM/MC/ET33

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To provide students an understanding of business ethics and corporate social responsibility in the global and Indian context
- To apply the ethical concepts in decision-making
- To analyze the role and responsibilities of stakeholders in business
- Compare the CSR initiatives of different organisations
- To create Ethical business models using case studies on CSR issues and challenges

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Identify the various ethical issues related to business	K1
CO2	Summarize the importance of ethics in local and global business context	K2
CO3	Determine the driving forces of CSR	K3
CO4	Appraise the various models and distinguish the different CSR initiatives	K4
CO5	Evaluate the Legal, Political, Social and Cultural impact of CSR	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Ethics 1.1 Meaning, Scope and Objectives of Ethics 1.1 Business Ethics and Globalisation 1.2 Practicing Ethics in Business 1.4 Ethical Dilemma in Business	K1 – K2 K2 – K4 K3 – K5 K3 – K5	10	CO1-5
2	Ethics in Business 2.1 Ethical Issues in Finance – Issues related to Financial Services, Insider Trading and Takeovers 2.2 Ethical Issues in Marketing and Advertising 2.3 Whistle Blowing and Whistle-Blowers Protection	K2 – K5 K1 – K5 K1 – K4	12	CO1-5

UNIT	CONTENT	CL	HRS	CO
3	Drivers of CSR-Ethical Theory 3.1 Drivers of CSR Disclosures 3.2 Driving forces of CSR, Consumers as Drivers of CSR, Government as Drivers of CSR 3.3 Relevant Case Studies for discussion	K1 – K5 K3 – K5 K1 – K4	10	CO1-5
4	Corporate Social Responsibility 4.1 CSR-Initiative towards Stakeholders - Employees, Consumers, Government and Suppliers 4.2 Corporate Philanthropy and Community Volunteering 4.3 CSR Model - Archie Carroll 4.4 CSR Initiatives in Different Corporate Sector – Relevant Case studies	K2 – K5 K3 – K5 K3 – K5 K3 – K5	10	CO1-5
5	Environmental aspects of CSR 5.1 Significance of CSR, Legal, Political, Social and Cultural Requirements 5.2 CSR and Corporate Sustainability 5.3 Role of Government in Managing Environmental Issues, Environmental Social Governance (ESG)	K1– K2 K1 – K4 K1 – K5	10	CO1-5

BOOKS FOR STUDY

Andrew Crane Dirk Matten. *Business Ethics*. New Delhi: Oxford University Press.2010
Joan R. Boatright. *Ethics and the Conduct of Business*. Pearson. 2018

BOOKS FOR REFERENCE

Bhanu Murthy, K. V. and Usha Krishna, *Politics Ethics and Social Responsibilities of Business*. New Delhi: Pearson Education.2015
Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University Press. 2010
Geeta Rani, D & R K Mishra. *Corporate Governance-Theory and Practice*. New Delhi: Excel.
Kotler, Philip and Nancy Lee. *Corporate Social Responsibility – Doing the Most Good for Your Company and Your Cause*. Wiley – India, 2017.
Fernanado,A.C. ,*Corporate Governance-Principles, Policies and Practice*, Pearson 2009

WEB RESOURCES

www.ibscdc.org
www.exed.hbs.edu
www.hbr.org

JOURNALS

International Journal of Management Reviews
International Journal on Corporate Strategy and Social Responsibility

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/MC/ET33												
	Course Title: BUSINESS ETHICS AND SOCIAL RESPONSIBILITY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	3	3	3	3	3	3	3
CO 2	3	3	3	2	2	2	3	3	3	3	3	3	3
CO 3	3	3	3	2	2	2	3	3	3	3	3	3	3
CO 4	2	3	3	2	2	2	3	3	3	3	3	3	3
CO 5	2	3	3	2	2	2	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

COMPUTER APPLICATIONS IN BUSINESS

CODE: 23CM/AC/CB35

CREDITS: 5

L T P : 2 0 4

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE:

- To impart knowledge to the students on computer skills relating to business environment
- To expose students to the tools for financial analysis and reporting techniques using Tally
- To familiarise the students with data analysis techniques using Excel.
- To provide students hands on experience on business forecasting techniques
- To enable students to use appropriate tools for effective decision-making

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Identify tools for financial data analysis and reporting techniques	K1
CO2	Estimate the financial position of a company using forecasting techniques	K2
CO3	Apply the advanced features in Tally and Excel in financial analysis	K3
CO4	Analyse budgets and payrolls for financial decision making	K4
CO5	Evaluate business projects using data analysis, time value and capital budgeting techniques	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Accounting Package – Tally 1.1 Introduction to Tally - Creation, Alteration and Deletion of a Company 1.2 Creation, Alteration and Deletion of Group and Ledger 1.3 Accounting Vouchers – Types, Voucher Entry 1.4 Preparation of Financial Statement – Day Book, Trial Balance, Profit and Loss and Balance Sheet 1.5 Ratio Analysis	K1 – K5 K1 – K5 K3 – K5 K3 – K5 K1 – K3	20	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	MS Excel for Financial Statement and Business Forecasting 2.1 Techniques of Financial Statement Analysis 2.1.1 Comparative Statement 2.1.2 Common Size Statement 2.1.3 Trend Percentage	K1 – K5	12	CO1-5
3	3.1 Preparation of Budget – Sales Budget, Purchases budget, Cost of Production, Flexible Budget and Cash Budget 3.2 Payroll Analysis – Computation of salary and wages with allowances and deductions	K1 –K5 K1 –K5	16	CO1-5
4	Data analysis using Excel 4.1. Sorting of data, filtering data, pivot table 4.1.1 ANOVA, Correlation. Regression, Moving average, t-test, f-test, Chi Square and descriptive statistics using data analytics.	K1 –K5 K1 –K5	15	CO1-5
5	Application of Financial and Statistical function 5.1 Business Evaluation Techniques using financial functions 5.1.1 Time Value of Money - Future Value and Present Value 5.2 Evaluation Techniques 5.2.1 Pay Back Period 5.2.2 Net Present Value 5.2.3 Internal Rate of Return 5.3 Methods of Depreciation 5.3.1 Straight line method 5.3.2 Double declining balance method 5.3.3 Sum of the years digits method 5.4 Statistical Functions – Mean, Median, Mode, Standard deviation, Trend, ANOVA, Correlation. Regression, Moving average, t-test, f-test, Chi Square	K1 –K5 K1 –K5 K1 –K5 K1 –K5	15	CO1-5

BOOKS FOR STUDY

Nadhani, A.K. *Implementing Tally. ERP*. BPB Publication, 2017

Rajaraman, V. *Introduction to Information Technology*, 3rd edition. PHI, 2018

BOOKS FOR REFERENCE

Rizwan P. Ahmed, *Computer Application in Business with Tally ERP 9*, Margham Publication

Sadagopalan, S. *Management Information System*. PHI

Eliason, A.L., *On – line Business Computer Application Science Research Associates* Chicago.

Curtis D. Frye, *Step by Step Microsoft Excel 2010*, PHI

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	1 X 5 = 5	1 K1 question	1 K1 question
B	K2 (5)	1 X 5 = 5	1 K2 question	1 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	5	8

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	2 X 5 = 10	2 K1 question	2 K1 question
B	K2 (10)	2 X 5 = 10	2 K2 question	2 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	10	14

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/AC/CB35												
	Course Title: COMPUTER APPLICATIONS IN BUSINESS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	3	1	3	3	1	1	3	2	1	1	3
CO 2	2	3	3	1	3	3	1	1	3	2	1	1	2
CO 3	1	3	3	1	3	3	1	1	3	2	1	2	3
CO 4	2	3	3	1	3	3	1	1	3	2	1	2	2
CO 5	3	3	3	1	3	3	1	1	3	2	1	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

FINANCIAL MANAGEMENT

CODE: 23CM/MC/FM44

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize students with the principles and practices of financial management
- To provide students a sound conceptual frame work for financial decision-making
- To assist the students to apply the concepts of time value of money
- To determine the cost of various sources of capital
- To enable the students to select and apply the techniques in managing working capital

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	Relate the financial environment within which the organizations operate.	K1
CO2	Apply the relevant financial concepts and techniques in financial decision making	K2
CO3	Analyse the impact of time value of money on investment opportunities	K3
CO4	Select the suitable projects using capital budgeting techniques	K4
CO5	Determine the cost of various sources of capital and propose the optimal capital structure	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial Management		10	1-5
	1.1 Core Concepts			
	1.1.1 Investment Decisions	K1-K3		
	1.1.2 Finance Decisions			
	1.1.3 Dividend Decisions			
	1.1.4 Liquidity Decisions			
	1.2 Objectives of the Firm	K1-K3		
	1.2.1 Profit Maximisation			
	1.2.2 Wealth Maximisation			
	1.3 Objectives of Long term and Short term Capital Management	K1-K3		
	1.4 Time Value of Money-Concepts and Applications			
	1.4.1 Computation of Time value of Money	K1-K3		
	1.4.1.1 Compounding Techniques	K1-K5		
	1.4.1.2 Present Value Techniques			

UNIT	CONTENT	CL	HRS	CO
2	Capital Structure 2.1 Meaning and Significance of Capital Structure 2.2 EPS-EBIT Analysis, Indifference Point 2.3 Leverages - Meaning and Importance 2.3.1 Types of Leverages	K1-K2 K1-K5 K1-K4	10	1-5
3	Cost of Capital 3.1 Meaning and Significance 3.2 Cost of Equity and Retained Earnings 3.3 Cost of Debt 3.4 Cost of Preference 3.5 Computation of Overall Cost of Capital - Book Value and Market Value	K1-K2 K1-K4 K1-K4 K1-K4 K1-K5	15	1-5
4	Capital Budgeting 4.1 Nature of Capital Budgeting 4.2 Evaluating Techniques – Pay Back Period, Average Rate of Return, Net Present Value, Internal Rate of Return and Profitability Index	K1-K2 K1-K5	15	1-5
5	Working Capital Management and Dividend Decisions 5.1 Need for Working Capital Management 5.2 Determinants of Working Capital Management 5.3 Computation and Management of Working Capital 5.4 Dividend Policies-Factors determining Dividend payments	K1-K2 K1-K4 K3-K5 K1-K3	15	1-5

BOOKS FOR STUDY

Khan, M.Y. and P.K. Jain. *Basic Financial Management*. New Delhi: Tata Mc Graw Hil, 2017.

Dr. A. Murthy Financial Management , Margham Publications, 2013

BOOKS FOR REFERENCE

Chandra,. *Fundamentals of Financial Management*. New Delhi: Tata McGraw Hill, 2014.

Van Horne, James C. *Financial Management and Policy*. New Delhi: Prentice Hall of India, 12th edition.2011.

Maheshwari, S. N. *Financial Management*. New Delhi: Vikas, 6th edition, 2013

Pandey, I. M. *Financial Management*. New Delhi: Vikas, 2016.

Ravi M. Kishore. *Taxmann's Financial Management*. New Delhi: K. L. Taxmann, 2016.

WEB RESOURCES

www.mdpi.com

www.indianjournaloffinance.co.in

www.financeindia.

JOURNALS

Journal on Risk and Financial Management

Indian Journal of Finance

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/FM44												
	Course Title: FINANCIAL MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	2	2	3	1	3	2	2	3	3
CO 2	2	3	3	1	2	3	2	1	3	2	2	2	3
CO 3	3	3	3	1	2	2	1	1	3	2	2	2	2
CO 4	2	3	3	1	2	2	2	1	3	3	2	2	2
CO 5	2	3	3	1	2	2	2	1	3	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

BANKING THEORY AND PRACTICE

CODE: 23CM/MC/BK43

CREDITS :3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To gain knowledge on the structural framework of the banking sector
- To expose the students to the technological changes in banking services
- To provide a comprehensive knowledge on the procedural formalities of banking services
- To acquaint the students with the various banking products
- To familiarise the students with the neo aspects of banking services

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Highlight the importance of Banking services to the society	K1
CO2	Identify the Banking operations offered to a customer	K2
CO3	Examine the nuances of the banking industry	K3
CO4	Categorise the different types of banking services	K4
CO5	Adapt to the modern technological trends in the Banking sector	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Banking 1.1 Meaning, Definition and functions of a Commercial bank 1.2 Classification of banks – Co-operative banks, Rural Banks, Investment banks, Payment banks and Small finance banks 1.3 Introduction to RBI – functions of RBI and Quantitative Credit Control methods – CRR, Bank Rate, SLR, Repo & reverse repo rate, and open market operations 1.4 Role of banks in economic development	K1 – K5 K1 – K5 K1 – K5 K1 – K5	12	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Banking Operations 21 Banker and Customer relationship 22 Procedure and Practice in Opening, Operating and Closing of Bank Accounts 23 Deposits – Types of Deposits 24 Loans and Advances – Principles of sound lending, style of credit and types of loans 25 Meaning, Features of Cheque – Types of Crossing, Endorsement – Meaning and types	K1-K3 K1-K3 K1-K3 K3-K5	12	CO1-5
3	Banking Services 3.1 Bancassurance – Meaning, Importance, Functions and Role of Insurance Services 3.1 Role of Postal Services in the Banking Sector 3.2 Foreign Exchange Services – Currency exchange and transfer	K1 – K3 K3 – K5 K3 – K5 K1 – K2	12	CO1-5
4	Modern Banking Operations 4.1 E-Banking – Meaning, need and advantages 4.2 Mobile banking, Net banking, Tele banking, Door - step banking – Meaning and significance 4.3 Types of E-banking – Smart card, Debit card, Credit card, ATM, ECS, EFT, NEFT, RTGS, IMPS, LRS, UPI, e-wallet, e-cheques, Digital Cash. 4.4 Opening and operating a Demat account	K1-K3 K3-K5 K4-K5 K1-K2	10	CO1-5
5	Recent trends in Banking - An Overview 5.1 Block Chain Technology 5.2 Cloud Banking	K1-K3 K1-K3	6	CO1-3

BOOKS FOR STUDY

KPM Sundharam and PN Varshney, *Banking Theory, Law and practice*, Sultan Chand & Sons, 2019

Gordon. E, K. Natarajan; *Banking Theory, Law and practice*, Himalaya Publishing House, 2021

BOOKS FOR REFERENCE

Varshney, P.N., *Banking Law and Practice*, Sultan Chand and Sons, New Delhi, 2016

Dr. Gurusamy: *Banking Theory: Law and practice*, McGraw Hill Education India, 2nd edition

Saxena, G.S; *Legal Aspects of Banking Operations*, Sultan Chand and Sons

Sukhvinder Mishra; *Banking Law and Practice*, S.Chand

WEB RESOURCES

http://www.universityofcalicut.info/SDE/Banking_on19May2016.pdf

<http://www.rbi.org.in/scripts/PublicationReportDetails.aspx?ID=243>

<https://exampariksha.com/bancassurance-banking-study-material-notes/>

JOURNALS

International Journal of Finance & Banking Studies

Global Journal of Finance and Banking Issues

Journal of Insurance and Risk Management

International Journal of Banking, Risk and Insurance.

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/BK43												
	Course Title: BANKING THEORY AND PRACTICE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	2	2	3	3	3	2	3
CO 2	3	2	2	1	2	3	3	2	3	3	3	3	3
CO 3	3	2	2	1	2	3	3	2	3	3	3	2	3
CO 4	3	2	2	1	2	2	2	2	3	2	3	3	3
CO 5	3	2	2	1	2	3	2	2	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

COMPANY LAW

CODE: 23CM/MC/CL 44

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with the provisions of Companies Act
- To apply the practical knowledge of establishing and formation of a Company
- To analyse the provisions of the Company relating to raising of finance
- To familiarise the students with the various documents involved in formation and management of a company
- To expose the students to the statutory provisions relating to the management of a company

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Outline the legal provisions relevant to the formation and management of a company	K1
CO2	Identify the relevant documents necessary for the incorporation of a company	K2
CO3	Comprehend the legal and procedural aspects relating to raising and distribution of funds	K3
CO4	Differentiate the statutory provisions involving the roles and responsibilities of Key Managerial Personnel of a company	K4
CO5	Assessing the types and requisites of Meetings and Resolutions of a company	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Characteristics of a Company, Lifting of Corporate Veil 1.2 Types of Company – Private, Public and One-man Company 1.3 Important Definitions- Member, Promoter, Financial Year, Free Reserves, Associate Company	K1-K3 K1-K3 K1-K3	10	1-3

2	Formation of a Company 2.1 Legal Requirements for Formation of a Company – Commencement of Business 2.2 Process of Incorporation of Company 2.3 Memorandum of Association and its Alteration 2.4 Articles of Association and its Alteration - – Entrenchment Provision 2.5 Prospectus	K1-K5 K1-K5 K1-K5 K1-K3 K1-K4	15	1-5
3	Raising of Finance 3.1 Concept of Capital –Kinds of Share Capital and Nature of Shares 3.2 Application, Allotment, Transfer and Transmission of Shares 3.3 Issue of Sweat Equity Capital, ESOP, ESPP, RSU and Bonus Shares 3.4 Debenture –Nature and Classes of Debenture 3.5 Deposits- Meaning, Exempted Deposit, Return of Deposit and Allied Regulatory Deposit	K1-K3 K1-K5 K1-K5 K1-K3 K1-K3	12	1-5
4	Management 4.1 Directors–Appointment and Removal, Roles and Responsibility, Classification of Directors - Women Director, Independent Director, Additional Director - Number of Directorship and DIN (Director Identity Number) 4.2 Key Managerial Personnel – Managing Director, Manager, Secretary- Appointment, Removal, Power and Duties	K1-K5 K3-K5	15	1-5
5	Meetings and Resolutions 5.1 Meetings – Requisites and Types 5.1.1 Board and Committee Meetings 5.1.2 Shareholder’s Meeting - Statutory Meeting, AGM, EGM, Creditors Meeting 5.2 Resolutions – Meaning and Types 5.3 Registers and Returns	K1-K5 K1-K5 K1-K2 K1-K4 K1 - K3	13	1-5

BOOKS FOR STUDY

Avatar Singh , A., *Company Law*, Eastern Book Company, 2018

Kapoor, N.D. *Company Law*. New Delhi: Sultan Chand, 30th Edition, 2016

BOOKS FOR REFERENCE

Majumdar, A. K., Kapoor, G.K. *Company Law and Practice*, Taxman Publication, 2014

Chandrate, K.R. *Company Secretarial Practice Manual*: Lexis Nexis, 2016

Shah, S.M. *Lecture of Company Law*. Mumbai: Tripathi M.N, 2006.

Sherlekar, S.A. *Company Secretarial Practice*. New Delhi: Kitab Mahal, 2006.

Ravi, B, *Company Law made Simple*, B.Ravi and Associates, Chennai

JOURNALS

Company and Security Law Journal

Company Law Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/MC/CL44												
	Course Title: COMPANY LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	1	1	3	2	3	2	2
CO 2	3	2	2	2	3	3	1	1	3	2	3	2	2
CO 3	2	2	2	2	3	2	2	1	2	2	3	2	3
CO 4	2	2	2	2	3	3	2	1	2	3	3	2	3
CO 5	2	2	2	2	1	2	1	1	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

HUMAN RESOURCE MANAGEMENT

CODE: 23CM/MC/HR43

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand the roles and responsibilities of HR Managers and the challenges faced
- To educate the students on the managerial, operative and maintenance aspects of the human resources in an organization
- To analyze the concepts and factors affecting Human Resource Planning, Recruitment and Selection
- To measure the effectiveness of Training methods of employees and managers and the techniques involved
- To examine the strengths and weaknesses of different performance management system

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Describe the objectives and significance of HR Management	K1
CO2	Explain the various processes involved in Talent Acquisition	K2
CO3	Analyse the managerial, operative and maintenance aspects of the Human Resources in an organization	K3
CO4	Evaluate the methods and effectiveness of Training and Development Programmes	K4
CO5	Critically appraise the factors determining employee performance	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Scope and Objectives of Human Resource Management 1.2 Significance and Functions of Human Resource Management 1.3 Emerging Challenges of Human Resource Management- Workforce Diversity, Downsizing, Work Life Balance 1.4 Recent Trends in Human Resource Management	K1-K3 K1-K3 K2- K3 K1-K3	10	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Acquisition of Human Resources 2.1 Objectives, Characteristics and Process of HR Planning 2.2 Job Analysis - Job Description, Job Specification 2.3 Recruitment – Sources of Recruitment 2.4 Selection Procedure, Testing, Placement and Induction	K1-K3 K1-K3 K4-K5 K4-K5	12	CO1-5
3	Training and Development 3.1 Concept and Importance, Identifying Training and Development Needs 3.2 Training and Development Methods – On-the-job and Off-the-job 3.3 Evaluating Training Effectiveness	K1-K3 K4-K5 K3-K5	10	CO1-5
4	Performance Appraisal 4.1 Nature and Importance of Performance Appraisal 4.2 Process and Methods of Performance Appraisal 4.3 Performance Management , Performance Counselling	K1-K3 K1-K5 K1-K3	10	CO1-5
5	Compensation and Maintenance 5.1 Compensation – Factors, Types – Monetary and Non-Monetary 5.1.1 Wage and Salary Compensation 5.1.2 Incentives and Benefits 5.2 Employees Welfare– Health, Safety and Social Security 5.3 Grievance Handling and Redressal – Vigil Mechanism and Prevention of Sexual Harassment	K1-K3 K1-K3 K1-K3 K1-K3 K3-K5	10	CO1-5

BOOKS FOR STUDY

Aswathappa K. *Human Resource Management*, Text and Cases 8th Edition New Delhi: Tata Mc Graw Hill 2017.

Gupta, C.B. *Human Resource management*. Text and Cases 19th Edition New Delhi: Sultan Chand, 2017.

BOOKS FOR REFERENCE

Khanka S.S, *Human Resource management text and cases* ' S. Chand, 2nd edition 2019

Flippo V. Edwin. *Personnel Management*. New Delhi: Mc Graw Hill, 2019.

Mamoria, C.B. *Personnel Management*. Mumbai: Himalaya, 2017.

Prasad, L.M. *Human Resource management*. New Delhi: Sultan Chand, 2017.

John Bratton and Jeffery Gold *Human Resource management Theory and Practice* Macmillan

WEB RESOURCES

www.hrcouncil.ca/hr-toolkit/planning-strategic.cfm

www.hrwale.com/recruitment/88-2/

www.educationobserver.com/forum/showthread.php?tid=12165
managementhelp.org/training/

JOURNALS

International Journal of Human Resource Management

The Human Resource Management Review

Human Resource Management International Digest

Human Resource Management Journal.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/HR43												
	Course Title: HUMAN RESOURCE MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	3	3	3	3	2	3	2
CO 2	2	3	3	3	3	3	3	3	3	3	2	3	2
CO 3	3	3	3	3	3	2	3	3	3	3	2	3	2
CO 4	2	3	3	3	3	2	3	3	2	3	2	3	2
CO 5	2	3	3	3	3	2	3	3	2	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Com. (General) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMMERCE

CODE: 23MT/AC/MT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts pertaining to the discipline of commerce
- To employ different techniques to solve problems pertaining to matrices, equations and LPP
- To appreciate the concept of numerical differentiation and integration as an alternate tool to solve problems on differentiation and integration
- To promote problem solving skills and quantitative analysis
- To model and solve real time problem using linear programming method

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and define the basic mathematical concepts on matrices, equations, differentiation, integration and linear programming problem	K1
CO2	understand and compare the concepts relating to matrices, polynomials, numerical methods and linear programming problem	K2
CO3	utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CO4	analyse and examine the problem relating to the applications of matrices, differentiation, integration and optimization	K4
CO5	evaluate solutions to the problems related to matrices, equations, differentiation, integration and linear programming problem	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Matrices 1.1 Types of Matrices 1.2 Characteristic Equation of a Matrix 1.3 Cayley - Hamilton Theorem (without proof) 1.4 Eigen Values and Eigen Vectors 1.5 Diagonalization of 3×3 Matrices with Distinct Eigen Values	K1- K5	13	CO1-5
2	Theory of Equations 2.1 Formation and Solution of Equation with Imaginary and Irrational Roots 2.2 Relation between Roots and Coefficients 2.3 Solution of Equations under given Conditions 2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients 2.5 Reciprocal Equations	K1-K5	14	CO1-5
3	Numerical Methods Algebraic and Transcendental Equations 3.1 The Bisection Method 3.2 Newton - Raphson Method Simultaneous Equations 3.3 Gaussian Elimination Method 3.4 Gauss Jordan Elimination Method 3.5 Gauss Jacobi Iteration Method 3.6 Gauss Seidal Iteration Method	K1-K5	13	CO1-5
4	Numerical Differentiation and Numerical Integration 4.1 Derivatives using Newton's forward difference Formula 4.2 Derivatives using Newton's backward difference Formula 4.3 Trapezoidal Rule 4.4 Simpson's One Third Rule 4.5 Simpson's Three Right Rule	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
5	Linear Programming Problem 5.1 General L.P.P. 5.2 Canonical and Standard Forms of L.P.P. 5.3 The Simplex Algorithm 5.4 The Big-M method	K1-K5	13	CO1-5

BOOKS FOR STUDY

S, Arumugam, et al. *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017.

Chapter 3 Sections 3.3, 3.5

Chapter 4 Sections 4.3, 4.4, 4.7, 4.8

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to concepts only)

V, Sundaresan, et al. *Resource Management Techniques*. Chennai: A.R. Publications, 2014.

Chapter 3 Sections 3.1.1 – 3.1.4, 3.2.1

S G, Venkatachalapathy. *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016.

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

BOOKS FOR REFERENCE

A, Abdul Rasheed. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008.

S, Kalavathy. *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

S, Sankarappan, et al. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

WEB RESOURCES

<https://youtu.be/w8i89ftfZPI?si=HIaO4tYZ9ge9zPxx>

https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SMT1302.pdf

<https://www.math.ucla.edu/~tom/LP.pdf>

<http://www.math.iitb.ac.in/~baskar/book.pdf>

<http://ncert.nic.in/ncerts/l/lemh206.pdf>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MT45												
	Course Title: MATHEMATICS FOR COMMERCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	2	2	1	1
CO 2	3	3	3	3	2	2	1	1	3	2	2	1	1
CO 3	3	3	3	3	3	3	1	1	3	2	2	1	1
CO 4	3	3	3	3	3	3	1	1	3	2	2	1	1
CO 5	3	3	3	3	3	3	1	1	3	2	2	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. Com. (GENERAL) DEGREE PROGRAMME SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS RESEARCH

CODE: 23CM/MC/BR54

CREDITS:4

L T P: 5 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the fundamentals of business research.
- To identify the research gap through proper analysis of past studies.
- To familiarize research design and sampling techniques.
- To use appropriate data collection methods and apply statistical tools for justifying the study.
- To prepare and present the research report.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	Comprehend and use the fundamentals of Research Methodology in their research and project work.	K1
CO2	Identifying the research problem and write reviews based on the study.	K2
CO3	Determine appropriate research design and sampling techniques.	K3
CO4	Gather data, process the data, and analyze it appropriately.	K4
CO5	Develop and test hypothesis and create a Business Research Report	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Research 1.1 Meaning, Objectives and Significance of research 1.2 Types of research, Approaches and Scientific Research 1.3 Research process and Criteria for good research 1.4 Challenges and Problems in Research	K1 - K2 K1 – K5 K1 - K4 K1 - K2	15	CO1-5
2	Defining Research Problems and Evaluating the Reviews 2.1 Selecting and defining the problem 2.2 Techniques involved in defining a problem 2.3 Significance of Review of Literature 2.4 Review of Literature - Sources	K1 - K3 K1 – K4 K1 – K4 K1 - K3	10	CO1-5
3	Research Design and Sampling Techniques 3.1 Meaning, Need, Features and Importance of research design 3.2 Research Design - Types 3.3 Sampling Designs – Steps, Criteria, Characteristics and types 3.4 Scaling – Meaning and Importance 3.5 Scaling Techniques – Likert's Scale	K1 – K2 K1 – K2 K1 – K2 K1 – K2	15	CO1-5
4	Data Collection and Analysis of Data 4.1 Data Collection – Primary data and Secondary data 4.2 Processing Operations in Analyzing data - Coding of data 4.3 Tools and techniques in Data Analysis using Excel	K1 – K2 K1 – K2 K1 – K2	15	CO1-5
5	Testing of Hypothesis, Interpretation and Report writing 5.1 Basic concepts and Procedure for testing Hypothesis 5.2 Interpretation – Meaning and Techniques 5.3 Report writing – Significance, Steps, Layout and Types 5.5 Mechanics of writing a report 5.6 Reference Styles – MLA, APA	K1-K6	10	CO1-5

BOOKS FOR STUDY

C.R. Kothari , *Research Methodology – Methods and Techniques* , New Age International Publishers
 T N Srivastava and Shailaja Rego, *Business Research Methodology*, Tata Mcgraw Hill Education Private Limited, New Delhi

BOOKS FOR REFERENCE

Deepak Chawla and Neena Sondhi , *Research Methodology* , Vikas Publishing House
 O.R. Krishnaswami, *Methodology of Research in Social Sciences*, Himalaya Publishing House
 Mishra Prahlad, *Business Research Methods*, Oxford Higher Education, 2015

JOURNALS

International journal of social research methodology. (Taylor and Francis)

Qualitative research journal (emerald journal)

Journal of Business Research (Elsevier)

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components: Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination: Total Marks: 100 Duration: 3 hours.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2 (10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CM/MC/BR54												
	Course Title: Business Research												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	1	3	3	1	2	2
CO 2	2	3	3	3	3	2	2	1	3	3	1	2	2
CO 3	2	3	3	3	3	2	2	1	3	3	1	2	2
CO 4	2	3	3	3	3	2	2	1	3	3	1	2	2
CO 5	2	3	3	3	3	2	2	1	3	3	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

INCOME TAX LAW AND PRACTICE

CODE: 23CM/MC/IT 54

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint the students with the Provisions of the Income Tax Act
- To understand the significance of residential status of an individual in Income Tax Assessment
- To enable the students to compute the income under different heads of income
- To educate the students on the computation of taxable income and tax liability
- To familiarise the students with various deductions available under Sec. 80 for tax planning of an individual

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Remember the Provisions of the Income Tax Act relevant to an Individual Assessee	K1
CO2	Elaborate the scope of total income and categorise them under each head of income	K2
CO3	Compute the income under each Head for an individual	K3
CO4	Analyse the various options available for deductions	K4
CO5	Assess the total taxable income and tax liability	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Taxation 1.1 Importance and Relevance of Taxation 1.2 An overview of the Income Tax Act 1961 1.3 Types of Tax - Direct and Indirect Taxation 1.4 Important Definitions under The Income Tax Act 1961- Assessee, Persons, Assessment Year - Previous Year, Total Income 1.5 Residential Status and Scope of Total Income	K1, K2 K1, K2 K1, K2 K1 – K3 K1 – K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Computation of Salary Income and Income from House property 2.1 Computation of Income under the Head Salary 2.1.1 Allowances - Perquisites - Profit in Lieu of Salary, Treatment of Provident Fund 2.1.2 Deductions, Computation of Salary Income 2.2 Computation of Income under the Head House Property 2.2.1 Basis of Charge 2.2.2 Computation of Self-occupied and Let-out House 2.2.3 Deductions	K1 – K5 K1 – K5 K1 – K5 K1 – K5 K1 – K5 K1 – K5	15	CO1-5
3	Computation of Profits and Gains of Business or Profession 3.1 Income chargeable under the Head Profits and Gains of Business and Profession 3.2 Income and Expenditure - allowed and disallowed 3.3 Depreciation	K1 – K5 K1 – K5 K1 – K5	12	CO1-5
4	Computation of Capital Gains and Income from other sources 4.1 Meaning and Types of Capital Gains 4.1.1 Computation of Short Term and Long Term Capital Gains 4.1.2 Exempted Capital Gains 4.2 Income from Other Sources 4.2.1 Basis of Charge, Casual and Other Income 4.2.2 Computation of Taxable Income from Other Sources	K1 – K5 K1 – K5	13	CO1-5
5	Computation of Total Income and Tax Liability 5.1 Set off and carry forward of losses 5.2 Computation of Gross total income 5.3 Deductions allowed under Section 80 for an Individual 5.4 Computation of Taxable Income and Tax Liability. 5.4.1 Old and New Tax Regime – An Overview	K1 – K5 K1 – K5 K1 – K5 K3 – K5 K1-K3	13	CO1-5

BOOKS FOR STUDY

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi, Kalyani Publishers
 Swatantra Sethi, *Self-Preparation and Filing of Income Tax Returns by Individuals* Kindle Edition, 2018

BOOKS FOR REFERENCE

Lal B.B., *Income Tax Law and Practice*, , Konark Publishers Limited, New Delhi
Manoharan T. N. *Income Tax Law*, Mumbai, Snow White Publications
Mehrothra, H.C., *Income Tax Law and Practicum*, , Sahithya Bhavan Publications, Agra
Vinod K., Singhanian, *Taxman's Students Guide to Income Tax*, Taxman's Publications Pvt. Ltd., New Delhi
Vinod K., Singhanian, *Indirect tax*, 2014-15 Taxman's Publications Pvt. Ltd., New Delhi

NOTE: Latest edition of the readings may be used

WEB RESOURCES

www.ntanet.org/tax
www.aicpa.org
www.icaew.com

JOURNALS

Journal of taxation
National tax journal

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/IT54												
	Course Title: Income Tax Law and Practice												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	3	1	2	1	3	2	3	1	2
CO 2	3	1	1	1	3	1	2	1	3	2	3	1	2
CO 3	3	1	1	1	3	1	2	1	3	2	3	1	2
CO 4	3	1	1	1	3	1	2	1	3	2	3	1	2
CO 5	3	1	1	1	3	1	2	1	3	2	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

E - ENTERPRISE MANAGEMENT

CODE: 23CM/MC/EM53

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide knowledge of the technological changes in the business world
- To understand the practices and technology to start a business
- To analyse the E-business environment
- To generate and evaluate ideas for new business ventures
- To develop an appropriate E-Business model while meeting web presence goals

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Highlight and identify the technological changes in e-business	K1
CO2	Determine the practices and examine the web-based technology used in e-business	K2
CO3	Appraise and analyse the digital business environment	K3
CO4	Discover new e-business ideas and validate new e-business ventures	K4
CO5	Simulate an e-business model to meet the web presence goals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to E-Business 1.1 Meaning, Significance, Advantages and Challenges in E-Commerce 1.2 E-Commerce Models – B2B, B2C, C2B and C2C 1.3 E-Commerce in India (Internet, World Wide Web, Internet Architectures, Internet Applications, Web Based Tools for Electronic Commerce)	K1 – K4 K2 – K5 K1 – K3	10	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	E-Business Infrastructure 2.1 Business Applications on Internet, Intranet and Extranet 2.2 Electronic Data Interchange - Components and Communication process 2.3 E-HRM – Concept, Importance and Challenges in E-HRM 2.4 Impact of E-HRM practices in Organizational Performance	K1 – K4 K2 – K3 K1 – K4 K4 – K5	10	CO1-5
3	E-Business Payment and Security 3.1 Electronic Payment System – Meaning, Characteristics and Advantages 3.2 Types of Electronic Payment Systems 3.3 Issues in EPS 3.4 Internet Security Threats to e-Business – an Overview 3.4.1 Cryptography, Security, Encryption, Public Key and Private Key Cryptography, Digital Signatures, Digital Certificates 3.4.2 Security Protocols, Public Networks-HTTPS, SSL, Firewall Public Key Infrastructure (PKI) for Security, Prominent Cryptographic Applications	K1 – K2 K3 – K5 K2 – K4 K4 – K5 K1 – K3 K1 – K3	15	CO1-5
4	E-Marketing 4.1 Consumer Oriented e-Business – e-Tailing and Models including G2B 4.2 Marketing on Web – Advertising, Marketing, Online Services and Web Auctions, Virtual Communities and Web Portals 4.3 E-Governance - EDI on the Internet, Delivery Management System 4.4 Social Media Marketing – Tools, Advantages and Disadvantages	K2 – K4 K3 – K5 K1 – K2 K3 – K5	10	CO1-5
5	Emerging trends and Issues in e-Business 5.1 Legal, Ethical and Privacy Issues – Need for Protection and Methodology 5.2 Online Consumer Protection-Rights 5.3 Information Technology Act – Emerging Trends 5.4 Doing Business in Metaverse	K3 – K4 K1 – K2 K1 – K5 K1 – K3	7	CO1-5

BOOKS FOR STUDY

Harvey M.Deitel, Paul J.Deitel, Kate Steinbuhler, *E-business and e-commerce for managers*, Pearson, 2011.

Efraim Turban, Jae K. Lee, David King, Ting Peng Liang, Deborrah Turban, *Electronic Commerce –A managerial perspective*, Pearson Education Asia, 2010

BOOKS FOR REFERENCE

Parag Kulkarni, Sunita Jahirabadkao, Pradeep Chande, *e business*, Oxford University Press, 2012

Gary P. Schneider, *Electronic commerce*, Thomson course technology, Fourth annual edition, 2007

Bharat Bhasker, *Electronic Commerce – Frame work technologies and Applications*, 3rd Edition. Tata McGrawHill Publications, 2009

Kamlesh K.Bajaj and Debjani Nag, *Ecommerce- the cutting edge of Business*, Tata McGrawHill Publications, 7th reprint, 2009.

WEB RESOURCES

<https://www.ici.net.au/blog/e-business-management-what-you-need-to-know>

<https://iveybusinessjournal.com/publication/the-strategic-management-process-in-ebusiness/>

<https://www.dailypioneer.com/2018/avenues/managing-e-commerce>

JOURNALS

International Journal of Internet and Enterprise management

International Journal of Enterprise Network Management

International Journal of Enterprise Information System

Journal of Enterprise Information Management

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/EM53												
	Course Title: E-Enterprise Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	3	2	1	3	3	3	2	3
CO 2	3	3	3	2	2	3	2	1	2	1	2	2	1
CO 3	3	3	3	2	2	2	2	1	2	2	2	2	2
CO 4	3	3	2	2	3	3	2	1	2	2	3	2	2
CO 5	3	2	2	2	2	3	2	1	2	1	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME SYLLABUS

(Effective from the academic year 2023– 2024)

BUSINESS COMMUNICATION

CODE: 23CM/MC/BC 53

CREDITS: 3

L T P : 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To help students to understand the importance of communication in business
- To apply the skills of effective letter writing
- To analyse the importance of AIDAS in business communication
- To evaluate the role of technology in making communication effective
- To prepare a personal resume and to draft job application letters and other relevant business letters

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Highlight the importance of communication in business	K1, K2
CO2	Apply the AIDAS principle for effective business communication	K3
CO3	Illustrate the skills of written communication	K4
CO4	Comment and report on different business scenario using technological aids	K5
CO5	Draft a job application and write a resume	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Nature, Process and Importance of Communication 1.2 Types of Communication 1.3 Barriers to Communication	K1 – K2 K1 – K4 K2 – K5	10	CO1-5

2	Business Correspondence 2.1 Need and Importance of Business Correspondence 2.2 Business Letters – Planning and Layout 2.3 Types of Business Correspondence 2.3.1 Quotation-Inviting Quotations, sending Quotations 2.3.2 Sales letters, Claim inviting Adjustment 2.4 Official Legal Communication 2.4.1 Memorandum - Office Memorandum. 2.4.2 Notices, Agenda, Minutes 2.5 Job Application Letter, Preparing a Resume	K1 – K4 K1 – K3 K4 – K5 K2 – K5 K1 – K3 K1 – K3 K4 – K5	12	CO1-5
3	Business Report Writing 3.1 Importance and Need for Report-Writing 3.2 Format of a Report-Guidelines in the preparation of a report 3.3 Process of writing a Report 3.4 Importance of including Visual Charts in writing Reports 3.5 Types of Reports	K1 – K2 K2 – K5 K4 – K5 K4 – K5 K4 – K5	12	CO1-5
4	Business Language and Presentation 4.1 Importance of Business Language 4.2 Oral presentation-Importance, Characteristics 4.3 Presentation – Criteria for effective presentation, Visual Aids	K2 – K4 K2 – K4 K2 – K4	10	CO1-5
5	Business Communication and Technology 5.1 Importance of e-Communication 5.2 Role, Effects and Advantage of Technology in Business Communication 5.3 Types of technology in Business Communication - E-mail – etiquettes, Instant Messaging, video conferencing, VOIP, Use of AI in Business Communication	K3 – K5 K2– K5 K2 – K5	8	CO1-5

BOOKS FOR STUDY

Rajendra Pal and Korlahalli.J.S *Business Communication*, Sultan Chand & Sons, 8th edition, 2021

M. K. Sehgal, Vandana Khetarpal *Business Communication*, Excel Books; 2nd edition, 2013

BOOKS FOR REFERENCE

Harvard Business School Press Harvard Business School, *Business Communication*, Publishing Harvard Business Press, 2012

Bovee, C/Thill, J/Schatzman, *Business Communication Today*, 12th edition Pearson Education, 2014

Sharma, R. C/Mohan, *Business Correspondence & Report Writing*, 4th edition TMH, 2010

Kathryn Rentz and Paula, *Business Communication*, Mcgrawll Publication, 2010

WEB RESOURCES

www.pixelmattic.com

www.businesscommunication.org

JOURNALS

International Journal of Business Communication

ABC:International Journal of Business Communication-SCImago

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/BC53												
	Course Title: Business Communication												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 2	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 4	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 5	3	3	3	3	3	3	2	2	3	3	1	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

Interdisciplinary Core Course Offered by the Department of Commerce (Accounting and Finance and Commerce General) to B. Com(General) and Accounting and Finance Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL FINANCE AND IMPACT INVESTING

CODE:23ID/IC/SI55

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To provide students with a conceptual foundation for social finance
- To enable students to understand the theoretical concepts of impact investing
- To acquaint students with the policies and actions that affect social performance and investor reactions
- To provide an understanding to the students about investment strategies that align with specific social and environmental goals.
- To impart knowledge to the students on the ethical and social responsibility of impact investing practices

COURSE LEARNING OUTCOMES

On successful completion of the course students will be able to

COs	DESCRIPTION	CL
CO1	recall the concepts, theories and drivers related to social enterprise and impact investing.	K1
CO2	understand the importance of social entrepreneurship and impact investing models and strategies and in addressing social and environmental challenges to the sectors.	K2
CO3	apply knowledge of social enterprise to real-world scenarios and evaluate and select appropriate impact investments that align with specific societal, environmental or financial objectives using financial tools and risk management.	K3
CO4	analyze the role of governments, investors, and other actors in supporting social entrepreneurship and impact investing.	K4
CO5	design and develop innovative impact investment products or services and social enterprises that entail new business models or technologies to address unmet social or environmental needs.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K6	2	1-5
	1.1 Social Entrepreneur - Meaning, Scope, Importance.			
	1.2 Types and characteristics of social entrepreneurs - Difference between business entrepreneur and social entrepreneur.	K1-K2	3	1
	1.3 Social Enterprise - Meaning and Types.	K1-K6	3	1-5
	1.4 6 P's of Social Entrepreneurial Enterprise	K4-K6	2	4-5
2	Social Finance Investment			
	2.1 Social Finance Investment – Meaning and Characteristics	K1-K3	4	1-2
	2.2 OECD, SASB, UNDP, UNEP	K3-K4	4	2-3
	2.3 Elements of social finance - Demand, Supply and Intermediary.	K1-K6	4	1-5
	2.4 Types of Social Finance Investment	K1-K6	5	1-5
3	Impact Investing		5	1-4
	3.1 Meaning, Difference between Traditional Investing and Impact Investing.	K1-K5		
	3.2 Overview of the spectrum of Investment Opportunities from Traditional to Philanthropy	K1-K6	6	1-5
	3.3 Emergence and Driving Forces of Impact Investing.	K1-K6	6	1-5
4	Impact Investing to the Sectors			
	4.1 Microfinance and Development Related Investment	K1-K3	5	1-2
	4.2 Pros and Cons of Impact Investing	K1-K6	6	1-5
	4.3 Large Scale Impact Investing Programmes (Case Study)	K1-K6	6	1-5
5	Tools for Impact Investment		6	1-5
	5.1 Framework for social and environmental impact investing.	K1-K6		
	5.2 Industry standards and principles for impact investing.	K3-K6	5	2-5
	5.3 Measurement and verification tools for impact investing.	K1-K6	6	1-5

BOOKS FOR STUDY

Bugg-Levine, Antony and Emerson, Jed, *Demystifying Impact Investing*, Wiley, 2011
Rodin, Judith, *The Power of Impact Investing*, Wharton Digital Press, 2015
Balkin, Jeremy, *Investing with Impact*, Routledge Publications, 2015

BOOKS FOR REFERENCE

Clark, C., Emerson J. and Thornley, *The Impact Investor: Lessons in Leadership and Strategy for Collaborative Capitalism*, Jossey-Bass Publications, 2015

Kelly, Majorie, *The Divine Right of Capital: Dethroning the Corporate Aristocracy*, Berrett Koehler Publishers, 2015

Shiller, R., *Finance and the Good Society*, Princeton University Press, 2012

Tan, Kim and Griffiths, Brian, *Social Impact Investing*, Anchor, 2016

JOURNALS

Journal of Sustainable Finance and Investment

Journal of Social Innovations

WEB RESOURCES

www.alliancemagazine.org

www.cgap.org

www.responsiblesearch.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks:50

Duration:90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2X2=4	2 K1 Questions	2 K1 Questions
B	K2(6)	3X2=6	3 K2 Questions	3 K2 Questions
C	K3(10)	1X10=10	1 K3 Questions	2 K3 Questions
D	K4 (10)	1X 10 = 10	1 K4 Questions	2 K4 Questions
E	K5(20)	1 X20=20	1 K5 Questions	2 K5 Questions
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:

Total Marks:100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5X2=10	5K1 Questions	5K1 Questions
B	K2(10)	5X2=10	5 K2 Questions	5K2 Questions
C	K3(20)	2X10=20	2 K3 Questions	3 K3 Questions
D	K4 (20)	2X 10 = 20	2 K4 Questions	3 K4 Questions
E	K5(40)	2 X20=40	2 K5 Questions	4K5 Questions
	Total	100	16	20

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/SI55												
	Course Title: Social Finance and Impact Investing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	1	2	3	3	3	3
CO 2	3	3	2	3	3	3	3	1	2	3	3	3	3
CO 3	3	3	2	3	3	3	3	1	2	3	3	3	3
CO 4	3	3	2	3	3	3	3	1	2	3	3	3	3
CO 5	3	3	2	3	3	3	3	1	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

CORPORATE ACCOUNTING

CODE: 23CM/MC/CA64

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide conceptual knowledge of basic accounting principles and accounting standards in the preparation of financial statements of a company
- To acquaint the students with the provisions of Companies Act and its latest amendments.
- To enable the students to acquire the skills to interpret and analyse the cash position of the Company
- To familiarise the techniques to be followed in case of internal and external reconstruction.
- To facilitate the preparation of financial statements related to decision making for a company.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Identify the basic Accounting Principles and Accounting Standards in the preparation of Financial Statements	K1
CO2	Understand the concept of reconstruction of a company and valuation of shares & Goodwill	K2
CO3	Apply the relevant accounting principles in the preparation of financial statements and Cash flow statements	K3
CO4	Acquire the skills to interpret and analyse the financial position of the Company	K4
CO5	Prepare various financial statements related to a company for decision making.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Financial Reporting 1.1 Disclosure in Annual Accounts – Notes forming part of Financial Statements 1.2 Computation of Managerial Remuneration – Provisions pertaining to Managerial Remuneration 1.3 Preparation of Profit and Loss Account and Balance Sheet of Corporate entities	K1 – K2 K2 – K5 K2 – K5	13	CO1-5
2	Preparation of Cash Flow Statements 2.1 Operating activities, investing activities and financing activities 2.2 Preparation of Cash Flow Statements as per AS-3, ICAI	K1 – K4 K1 – K5	15	CO1-5
3	3.1 Acquisition of Business 3.1.1 When new set of books are opened 3.1.2 When same setoff books are continued 3.2 Profit Prior to Incorporation 3.2.1 Ascertainment of pre and post incorporation profit 3.2.2 Statement of Profit and Loss	K1 – K4 K1 – K4	12	
4	Valuation of Goodwill and Shares 4.1 Meaning, Need and Factors to be considered for Valuing Goodwill and Shares 4.2 Methods of Valuation of Goodwill – Average Profits, Weighted Average Profits, Super Profits, Capitalisation of Super Profits, Annuity Method - with adjustments 4.3 Methods of Valuation of Shares – Intrinsic Value, Yield Value and Fair Value	K1 – K2 K1 – K4 K1 – K5	12	CO1-5
5	Internal Reconstruction including Alteration of Share Capital 5.1 Alteration of Share Capital – Types – Accounting Procedure 5.2 Internal Reconstruction – Types and Legal Provisions 5.3 Accounting Entries and Preparation of Balance Sheet after Internal Reconstruction	K1 – K4 K1 – K2 K1 – K5	13	CO1-5

BOOKS FOR STUDY

Gupta R.L and Gupta V.K., *Introduction to Corporate Accounting*, S Chand, 2016
 Reddy, T.S and A. Murthy., *Corporate Accounting*, Margham, 2017

BOOKS FOR REFERENCE

Jain S. P and Narang K. L., *Advanced Accountancy (Vol- II)*, Kalyani, 2016
 M. Hanif and Mukherjee A., *Corporate Accounting, 2nd Edition*, TMH, 2017
 Bhushan Kumar Goyal, *Taxman's Corporate Accounting*, 6th Edition, 2019
 Goyal V.K., *Corporate Accounting*, 2018

WEB RESOURCES

www.icaai.org

www.emeraldinsight.com

www.accaglobal.com

www.journals.elsevier.com

JOURNALS

Journal of Institute of Chartered Accountants of India

Journal of Corporate Accounting and Finance.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/CA64												
	Course Title: Corporate Accounting												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	1	1	1	3	2	3	1	2
CO 2	2	3	2	2	1	1	1	1	3	2	3	1	2
CO 3	2	3	2	2	1	1	1	1	3	2	3	1	2
CO 4	2	3	2	2	1	1	1	1	3	2	3	1	2
CO 5	2	3	2	2	1	1	1	1	3	2	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023–2024)

SUPPLY CHAIN AND LOGISTICS MANAGEMENT

CODE: 23CM/MC/SM63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To familiarise students about supply chain management concepts, principles, and terminologies.
- To familiarise students with the recent trends in Logistics
- To assist students on how to integrate various components of the supply chain, including transportation, distribution, inventory management and information technology.
- To know the role and challenges of retail logistics
- To provide insights to students on managing supply chain in a global context

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	Recognize the fundamental concepts of supply chain and logistics management	K1
CO2	Explain the significance of the transport and distribution in achieving business objectives	K2
CO3	Identify supply chain practices in business and relate to the recent developments	K3
CO4	Analyze the supply chain processes at a global level	K4
CO5	Evaluate the different Logistics Service providers	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Supply Chain Management 1.1 Supply Chain Management – Meaning, Objectives, Functions of SCM 1.2 Participants of Supply Chain Management 1.3 Channel Management – Meaning and Functions 1.4 Role of Logistics in SCM, Logistics as an integral part of Supply Chain Management	K1 - K4 K1- K5 K1 - K5 K1 - K5	10	CO1-5

2	Introduction to Logistics Management 2.1 Logistics – Meaning, concepts and elements 2.2 Logistical Performance Cycle - Inbound logistics, In-process logistics, Outbound logistics 2.3 Logistical Competency, Integrated logistics and Green logistics 2.4 Customer Service - as a Key element of Logistics – Meaning, Elements and Levels of Customer Service	K1 - K5 K1– K5 K1– K3 K1– K5	12	CO1-5
3	Transport and Distribution 3.1 Role of Transportation in Supply Chain- Factors affecting Transportation 3.1.1 Modes of Transportation – Railways, Roadways, Airways, Waterways, Pipelines and Ropeways 3.2 Role of Distribution in Supply Chain- Factors influencing Distribution Network 3.3 Warehousing – Principles, Factors affecting warehousing and types 3.4 Packaging – Functions and Benefits of Packaging, Design consideration in Packaging and types of Packaging material 3.5 Material Handling in SCM – Meaning, Objectives, Principles and Systems of Material Handling	K1 - K5 K1 - K5 K1 - K5 K1 - K5 K1 – K5	12	CO1-5
4	Inventory Management and Information Technology in Supply Chain Management 4.1 Inventory Management – Meaning, Objectives, Techniques of Inventory Management 4.2 Role of IT in Supply Chain Management – Introduction, Objectives, Logistical Information System – Principles of LIS and Types of LIS, Infrastructural requirements	K1-K4 K1-K5	8	CO1-5
5	Recent Trends in Logistics and Supply Chain Management 5.1 Global Supply Chain – Issues and Challenges 5.2 Logistics Trends - Modern Logistics Infrastructure – Golden Quadrilateral, Logistics Parks, Deep water Ports, Dedicated Freight Corridor, Inland Container Depots/Container Freight Stations, Maritime Logistics, Double Stack Containers/Unit trains 5.3 Logistics Outsourcing – Meaning, Objectives, Benefits/Drawbacks of Outsourcing, Third party Logistics Provider, Fourth party Logistics Provider, Selection of Logistics Service Provider	K1-K3 K1-K5 K1-K5	10	CO1-5

BOOKS FOR STUDY

Sunil Chopra, Peter Meindl, *Supply Chain Management*, Pearson Education, India. Donald J. Bowerson, *Logistic and Supply Chain Management*, Prentice Hall of India

BOOKS FOR REFERENCE

Gwynne Richards *Warehouse Management: A Complete Guide to Improve Efficiency and Minimizing Cost in the Modern Warehouse*. The Chartered Institute of Logistics and Transport, Kegan page limited. 2014
Burt, Dobbler, Starling, *World Class Supply Management*, TMH

WEB RESOURCES

<https://sjce.ac.in/wp-content/uploads/2021/10/jnu-Supply-Chain-Management.pdf>
https://www.tutorialspoint.com/supply_chain_management/supply_chain_management_tutorial.pdf

JOURNALS

Supply Chain Management – An International Journal
Logistics and Supply Chain Management

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion
Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/SM63												
	Course Title: Supply Chain and Logistics Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	3	2	2	1	3	2	1	1	2
CO 2	3	2	1	1	2	2	3	1	2	2	2	2	2
CO 3	3	3	2	2	2	3	3	1	2	3	2	2	3
CO 4	2	2	2	2	2	2	3	1	2	3	3	2	3
CO 5	2	2	1	1	3	3	1	1	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

ENTREPRENEURIAL DEVELOPMENT

CODE: 23CM/MC/ED 64

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide comprehensive knowledge on the various aspects related to entrepreneurial development
- To familiarise the students with a conceptual and practical foundation for entrepreneurial practice
- To acquaint the students with the sources of entrepreneurial finance.
- To encourage students to venture into entrepreneurship
- To facilitate and assist the students in setting up of a business venture of their own.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Highlight the need and significance of entrepreneurship.	K1
CO2	Explain the importance of marketing and management in new business ventures	K2
CO3	Probe the possibility for raising funds for a new start-up business and formulate a business plan accordingly	K3
CO4	Analyse the business environment in order to identify business opportunities	K4
CO5	Evaluate a business idea and explore the possibility of setting up a new business	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Entrepreneurship, Entrepreneur and Enterprise - Meaning, Definition, Characteristics and Qualities for an Ideal Entrepreneur 1.2 Functions and Types of Entrepreneur - Social Entrepreneur, Rural Entrepreneur, Self-help Group, E-entrepreneur, etc. 1.2.1 Women Entrepreneurs – Role and Challenges 1.3 Role of Entrepreneurship in Economic Development 1.3.1 Factors contributing to the growth of entrepreneurial development - Internal and External environment - Psychological, Economic and Non - economic, Social, Cultural, Political, Legal	 K1 – K3 K2 – K5 K1 – K3 K3 – K5 K3 – K5	15	CO1-5
2	Business Idea generation and selection 2.1 Opportunity Identification and Selection 2.2 Idea Generation and Screening of Business Idea 2.2.1 Sources of Business Idea – Internal and External 2.2.2 Evaluation of Business Idea 2.2.3 Selection of Business Idea 2.2.4 Environmental Analysis - Scanning, SWOT Analysis.	 K1 – K5 K2 – K5 K3 – K5 K3 – K5 K1 – K5 K1 – K5	15	CO1-5
3	Project Proposal 3.1 Project Identification and Classification 3.1.1 Project – Meaning and Types 3.1.2 Internal and External Constraints in Identifying Project 3.1.3 Project Life Cycle 3.2 Project Formulation 3.2.1 Meaning and Stages in Project Formulation 3.2.2 Need and Significance of Project Formulation 3.2.3 Elements of Project Formulation 3.2.4 Project Feasibility Report – Planning commission guidelines	 K1 – K3 K2 – K5 K1 – K3 K1 - K5 K3 – K5 K3 – K5 K3 – K5 K3 – K5	15	CO1-5
4	Preparation of a Business Plan 4.1 Business Plan – Meaning, Contents and Significance of Business Plan 4.2 Business Plan – Process and Advantages 4.3 Preparing Business plan/Model Project Report for Starting a New Venture	 K1 – K3 K3 – K5 K3 – K5	10	CO1-5

UNIT	CONTENT	CL	HRS	CO
5	Entrepreneurial Finance 5.1 Financial Planning – Meaning and Need 5.2 Sources of finance – Internal and External 5.3 Start-up finance - Venture Capital 5.4 Government Assistance through Subsidies and Incentives	K1 – K5 K2 – K5 K2 – K5 K3 – K4	10	CO1-5

BOOKS FOR STUDY

S.S.Khanka, *Entrepreneurial Development*, S. Chand & Co, New Delhi, 2015
 Desai, V. *Dynamics of Entrepreneurship Development and Management*, New Delhi: Himalaya Publishers, 2015

BOOKS FOR REFERENCES

Jayashree Suresh, *Entrepreneurial Development*, Margham Publications, New Delhi, 2015
 C.B. Gupta & N. P. Srinivasan, *Entrepreneurial Development*, Sultan Chand & Sons, 2016
 Poornima, C. *Entrepreneurship Development - Small Business Enterprises*. New Delhi: Pearson, (2011).
 Robert D. H.& Peters, M.P. *Entrepreneurship*. New Delhi: Tata McGraw Hill, 2013
 Gopalakrishnan, P. *Textbook of Project Management*. New Delhi: Macmillan, 2014

WEB RESOURCES

<http://www.entrepreneur.com>
<http://www.businessesforsale.com>
<http://www.sba.gov>
<http://joe.sagepub.com/content/19/2.toc>

JOURNALS

International Journal of entrepreneurship development and Small business
 Journal of entrepreneurship education
 Journal of Business venturing
 International Journal of Project Management

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/ED64												
	Course Title: Entrepreneurial Development												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 3	2	3	3	2	3	3	3	3	3	3	3	3	3
CO 4	2	3	3	2	3	3	3	3	3	3	3	3	3
CO 5	2	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023– 2024)

AUDITING

CODE: 23CM/MC/AG64

CREDITS: 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To provide an understanding of the principles and techniques of auditing
- To acquaint students with audit process and procedures
- To familiarise with the current legal requirements and professional standards
- To enable the students to verify the financial position of a company
- To expose the e-environment audit initiatives

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able

COs	DESCRIPTION	CL
CO1	Outline the role and responsibility of an auditor	K1
CO2	Explain the procedure and techniques of auditing.	K2
CO3	Examine the various audit evidences	K3
CO4	Appraise the audit process and verify the financial position of a company	K4
CO5	Adapt to the e-audit environment of the companies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Auditing - Meaning and Objective 1.1.1 Audit Planning and Internal Control 1.1.2 Internal Check and Internal Audit 1.2 Working Papers and Audit Programmes 1.3 Auditing Standards - ICAI	K1-K3 K1-K3 K1-K4 K1-K4 K1-K3	10	CO 1-4
2	Audit Evidence 2.1 Vouching –Importance and Objectives 2.2 Factors to be considered during Vouching 2.3 Importance of Reconciliation- Bank, Debtors, Creditors, Material and Statutory Dues 2.4 Types of Audit Evidence	K1-K3 K1-K3 K1-K5 K1-K4	15	CO 1-5
3	Verification of Assets and Liabilities 3.1 Verification- Objectives and Importance 3.2 Verification of Assets 3.3 Verification of Liabilities	K1-K3 K1-K5 K1 –K5	15	CO 1-5

4	Audit of Limited Companies 4.1 Appointment and Removal of an Auditor 4.2 Rights, Duties of an Auditor 4.3 Liabilities of an Auditor	K1-K3 K1-K5 K1-K5	15	CO 1-5
5	Audit Report 5.1 Audit Report including New Audit Reporting Requirements 5.2 Auditing in an e-Environment- Computer Assisted Auditing Techniques	K1-K4 K1-K5	10	CO 1-5

BOOKS FOR STUDY

Tandon, B. N. *Handbook of Practical Auditing*. New Delhi: S.Chand, 2018.
Sharma.J.P. *Corporate Governance, Business Ethics and CSR*, New Delhi: Ane Books Pvt Ltd,2016
Anil Kumar. *Corporate Governance,Theory and Practice*. NewDelhi: Indian Book House,2012

BOOKS FOR REFERENCE

Anil Kumar. *Corporate Governance, Theory and Practice*. NewDelhi: Indian Book House,2012
De Paula, F.R.M. *Principles of Auditing: A practical manual for student and practitioners*. London: E.L.B.S., 2015.
Pagare, Dinakar..*Auditing* New Delhi: Sultan Chand, 2016.
Saxena, R. G *Principles and Practices of Auditing* Himalaya Publishers, Mumbai: 2010.

WEB RESOURCES

www.neoxen.com/neoxen/methodology/docs/intro_auditing_online.pdf
www.academia.edu/7505528/verification_and_valuation
www.e-conomic.co.uk/accountingsystem/glossary/auditors-report
accountlearning.blogspot.in/2012/02/advantages-of-audit-program.html

JOURNALS

International Journal of Auditing
Auditing: A journal of Practice and Theory
Journal of Accounting, Auditing and Finance
Accounting, Auditing and Accountability Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

Mapping of Course Outcomes (Cos)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/MC/AG64												
	Course Title: Auditing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	3	2	1	3	2	3	2	2
CO 2	3	3	2	2	2	2	1	1	3	2	3	1	2
CO 3	3	2	2	2	1	2	2	1	2	2	2	2	2
CO 4	3	2	2	2	1	2	1	1	3	1	2	2	2
CO 5	2	2	1	2	2	2	2	1	3	2	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 -2024)

ORGANIZATIONAL BEHAVIOR

CODE: 23CM/ME/OB45

CREDITS : 5

L T P : 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the work culture and overcome differences among employees.
- To understand relevance of individual and group behaviour in a work environment
- To examine the importance of various factors such as motivation, perception, attitudes and emotions that influence employee behaviour
- To assess how organizational culture can be aligned with organizational goals
- To resolve conflicts and manage stress

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	comprehend the different concepts of organizational behaviour	K1
CO2	integrate the motivation theories with the organizational culture	K2
CO3	determine the complexities associated with group behaviours in organizations	K3
CO4	assess the impact of culture on organizational behaviours	K4
CO5	evaluate the organizational change and importance of stress management for a positive work culture	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Organizational Behaviour – Definition, Nature and Important Concepts 1.2 Challenges and Opportunities in an Organizational Structure 1.3 Innovation and creative groups 1.4 Strategies for retaining and engaging a diverse workforce – Hofstede’s Theory	K1- K2 K2 - K4 K1- K3 K1- K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Individual Traits 2.1 Personality – Definition, Personality Traits 2.2 Briggs Type Indicator – Five Personality Models 2.3 Perception – Factors of Perception 2.4 Motivation Need and Importance – Theories of Motivation (Adam’s Equity theory and Mc Clellands theory of needs) 2.5 Job Design – Job Rotation, Job Enlargement, Job Enrichment, Job Simplification 2.5 Job Characteristics Theory Attitudes – Attitude Formation and tri-component Model	K3 - K4 K1- K5 K3 - K4 K3 - K4 K2 - K3	15	CO1-5
3	Group Dynamics 3.1 Meaning, Nature and Types of Groups, Group Norms, Group Cohesiveness 3.2 Leadership Styles – Transformational, Transactional, Charismatic Leadership 3.3 Conflict – Types of Conflict, Conflict Resolution and Management 3.4 Stress Management - Sources of Stress - Individual and Organizational approaches to managing stress	K1-K4 K2 - K3 K1 –K5 K1 - K5	15	CO1-5
4	Organizational Culture 4.1 Organizational Culture - Meaning and Characteristics 4.2 Impact of Culture on Organizational Performance 4.3 Functional and Dysfunctional Aspects of Organizational Culture 4.4 Cultural Change and Transformation – Cultural Artefacts 4.5 Culture and Employee Engagement	K1-K3 K3-K5 K1-K4 K3-K4 K3-K4	10	CO1-5
5	Organizational Change for Development 5.1 Meaning and Importance of Change for Development - Forces for Change – Sources of resistance to change 5.2 Managing Organizational Change – Lewin’s Theory and Kotter’s eight step plan for implementing change 5.3 Individual and Group Decision making models	K1-K3 K1-K4 K1-K5	10	CO1-5

BOOKS FOR STUDY

Neharika Vohra Stephen P. Robbins, Timothy A. Judge. *Organizational Behavior, 18e (updated) Paperback* – 31 May 2022 Pearson
Aswathappa, K. *Organizational Behaviour*, New Delhi : Himalaya, 2014

BOOKS FOR REFERENCE

Steven L. McShane, Mary Ann Von Glinow, Himanshu Rai. *Organizational Behaviour / 9th Edition Paperback* – 26 July 2022
L.M Prasad. *Organizational Behaviour*, New Delhi: Sultan Chand, 2014
C.B. Gupta, *A Textbook of Organizational Behaviour*, New Delhi : Sultan Chand, 2014
S.S. Khanka. *Organizational Behaviour (Text and Cases)*, New Delhi : Sultan Chand, 2007

WEB RESOURCES

<http://onlinelibrary.wiley.com>
www.exed.hbs.edu
www.hbr.org

JOURNALS

Journal of Organizational Behaviour
Journal of Occupational Behaviour
Journal of Organizational Culture, Communication and Conflict

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/OB45												
	Course Title ORGANIZATIONAL BEHAVIOR												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	1	3	1	2	3	2	2	3	2
CO 2	2	3	3	2	3	3	2	2	3	2	1	2	2
CO 3	3	3	3	3	1	1	2	2	3	3	2	3	2
CO 4	2	3	3	2	2	1	1	2	1	1	1	2	3
CO 5	3	3	3	2	3	1	2	3	2	2	1	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

ADVERTISING AND MEDIA MANAGEMENT

CODE: 23CM/ME/AM45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with creative strategies in advertising
- To educate students on the importance of media advertising
- To assist students to create an Advertisement Copy
- To equip students to select the right media for advertising.
- To impart knowledge on cost effective advertising.

COURSE LEARNING OUTCOMES

On successful completion of the course. The students will be able to

COs	DESCRIPTION	CL
CO1	identifying the meaning of advertising and its importance in marketing	K1
CO2	understand the role of advertising as a promotional tool	K2
CO3	apply the steps involved in the process of advertising	K3
CO4	analyse the different types of advertising media options and strategies	K4
CO5	create their own advertisement copy	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning, Definition and Evolution of Advertising 1.2 Role of Advertising 1.3 Advertising as a Promotional tool 1.4 Economic, Social and Ethical Aspects of Advertising 1.5 Advertising as a Communication Process	K1 K2 K1-K2 K1-K4 K1-K2	10	CO 1-5

UNIT	CONTENT	CL	HRS	CO
2	Creative Strategy Management 2.1 Advertisement Copy and Advertisement Designing 2.1.1 Meaning- Preparation and process 2.1.2 Types of Advertisement Copy 2.1.3 Elements of Advertisement Copy and Advertisement Design 2.2 Advertisement Layout 2.2.1 Structure of an Advertisement Layout 2.2.2 Principles of Advertisement Layout	K1-K5 K1-K3 K3-K5 K2-K5 K1-K5 K1-K5	15	CO 1-5
3	Advertising Campaign Planning 3.1 Marketing Strategy and Situational Analysis 3.2 Advertising Plan and Objectives 3.3 DAGMAR Approach 3.4 Preparation of Campaign- Stages in Campaign Process	K1-K3 K1-K3 K1 – K3 K1- K5	15	CO 1-5
4	Advertising Media Strategy 4.1 Role of Media, Types of Media- Indoor, Outdoor, Electronic and Online - Advantages and Disadvantages 4.2 Media Planning-Selection and Scheduling	K3-K4 K3-K5	15	CO 1-5
5	Media Management strategies 5.1 Media Choice Criteria- Factors affecting Choice of Media 5.2 Choosing the right Advertising Agency - Role, Types and Functions of Advertisement Agencies, Selection and Co-ordination of Advertising Agency 5.3 Advertisement Budgeting- Types- Affordable Rate Method, Percentage of Sales Method, Competitive Parity Method and Objective and Task Method	K1 - K4 K3-K4 K1-K4	10	CO 1-5

BOOKS FOR STUDY

P. Saravanavel & S. Sumathi, *Advertising and Salesmanship*, Chennai, Margham Publications, 2017.

Belch, *Advertising and Promotion*. New Delhi, Tata McGraw Hill, 2017

Kenneth, E. Clow & Donald E. Baack. *Integrated Advertising Promotion & Marketing Communication*. New Delhi: Prentice Hall, 2015.

BOOKS FOR REFERENCE

Bovee, John.Courtland. L.George, Dovel.P and Wood, Marian Burk. *Advertising Excellence*, New Delhi, Tata McGraw Hill. 1994

Wells. *Advertising Principles and Practice*, New Delhi, Prentice Hall of India, 2016

Christina Spurgeon. *Advertising and New Media*. USA Taylor & Francis,

Appannaiah.H.R and Ramnath, *Advertising and Media Management*, Himalaya Publisher,2016

JOURNAL

Journal of Advertising

Journal of Advertising Research

Journal of Advertising Education

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components:Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination: Total Marks: 100 Duration: 3 hours.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/AM45												
	Course Title: ADVERTISING AND MEDIA MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	1	1	2	3	1	1	3	3	1	3	3
CO 2	2	3	1	3	1	3	3	1	3	2	2	3	3
CO 3	1	3	1	1	2	3	2	2	3	2	1	3	3
CO 4	1	2	3	2	2	1	2	2	3	2	1	3	3
CO 5	1	3	3	3	3	3	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

RETAIL MANAGEMENT

CODE: 23CM/ME/RM45

CREDITS: 5

L T P : 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint the students with the knowledge of contemporary retail management issues
- To give a clear picture on the concepts of retailing
- To enable the students to understand the functioning of the retail industry
- To comprehend the buyer behaviour in Retail business
- To expose the students to the challenges faced in Retail business

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	relate to the concepts of Retail Management in practice	K1
CO2	gain a perspective on challenges of Retail markets	K2
CO3	examine the factors influencing Retail marketing mix and analyse their components	K3
CO4	justify the consumer behaviour and buying process	K4
CO5	evaluate the modern trends in retailing	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Retailing 1.1 Meaning, Definition of Retailing, Growing Importance of Retail Concept 1.2 Functions of Retailing-Dynamic Nature 1.3 Retail Formats 1.4 Retail Business in India-Influencing Factors, Present Indian Retail Scenario	K1 – K2 K1-K2 K2-K3 K1- K5	12	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Retail Marketing Mix 2.1 Product-Decisions related to Choice of Goods and Service Delivery 2.2 Pricing-Influencing Factors, Approaches to Pricing 2.3 Supply Channel –Principles and Retail Logistics 2.4 Retail Promotion-Objectives and Promotional Mix	K1-K3 K1-K4 K3-K5 K1-K2	12	CO1-5
3	Retail Operations 3.1 Factors Influencing Location of Stores - Atmospherics 3.2 Stores Layout and Visual Merchandising- Stores Designing, Space Planning and Inventory Management 3.3 Merchandise Management- Need, Importance and Process, Retail Strategies	K1 -K2 K1-K5 K1-K5	15	CO1-5
4	Consumer Behaviour in Retail Business 4.1 Buying Decision Process and Implication in Retailing 4.2 Customer Shopping Behaviour- Customer Service and Customer Satisfaction 4.3 Customer Relationship – Customer Retention	K2-K5 K1-K3 K1-K3	15	CO1-5
5	Emerging Trends in Retailing 5.1 Changing Nature of Retailing 5.2 Organised Retailing, Modern Retailing and E- Tailing 5.3 Challenges faced by Indian Retail Sector- Legal Aspects in Retailing, Social and Ethical Issues in Retailing	K1-K2 K3-K4 K3-K5	11	CO1-5

BOOKS FOR STUDY

Michael Levy and Barton A Weitz, *Retailing Management*, Tata Mc Graw Hill, New Delhi, 2017

David Gilbert, *Retail Marketing* New Delhi, Prentice Hall of India Pvt Ltd, 2nd edition, 2007

BOOKS FOR REFERENCE

Chetan Bajaj, *Retail Management*, Oxford Publication

Natarajan, *Retail Marketing*, Margham Publication, Chennai, latest edition

Uniyal and Sinha, *Retail Management*, Oxford Publication

Barry Bermans and Joel Evans, *Retail Management- A Strategic Approach* Prentice Hall, Edition Tiwari.T.S, *Retail Management*, Himalaya Publishing House

JOURNALS

Journal of Retailing- Elsevier

International Journal of Retailing and Distribution Management International Journal of

Retailing Management and Research

The International Review of Retail, Distribution and Consumer Behaviour

WEB RESOURCES

www.managementstudyguide.com/retail-management

www.knowthis.com/retailing

www.yourarticlelibrary.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/RM45												
	Course Title: RETAIL MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	2	2	1	3	2	2	2	2
CO 2	2	3	3	2	2	1	2	2	2	2	2	2	2
CO 3	3	3	3	2	3	3	2	2	2	3	2	2	2
CO 4	3	3	3	2	3	2	3	2	2	2	2	3	2
CO 5	2	2	2	3	3	2	2	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

CODE: 23CM/ME/SP45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide conceptual knowledge on investment and securities analysis
- To develop an understanding on wealth maximization and risk minimization using securities and portfolio analysis techniques.
- To provide computational knowledge on investment alternatives that maximize the returns and minimize the risk.
- To familiarize the concept of intrinsic value of a security through fundamental analysis.
- To study the movements and fluctuations through technical charts and patterns.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	build conceptual knowledge and understanding on investment and securities analysis	K1
CO2	undertake portfolio analysis to determine risk and return for portfolio construction	K2
CO3	study the movements and fluctuation through technical charts and patterns	K3
CO4	apply EIC approaches for investment decisions and portfolio construction	K4
CO5	estimate the value of bonds and equities for investment decisions	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Investment – Meaning, Definition and Objectives 1.2 Investment Alternatives 1.3 Difference between Investment, Speculation and Gambling 1.4 Security Analysis and Portfolio Management -Definition and Meaning 1.5 Principles and procedures of Portfolio Management	K1 – K2 K1 – K4 K1 – K2 K1 - K2 K1 – K5	10	CO1-5
2	Risk and Return Analysis - Security 2.1 Risk – Meaning and types 2.2 Return – Meaning and components 2.3 Risk-return Trade off 2.4 Computation of Risk and return of an individual security	K1 – K5 K1 – K3 K1 - K2 K1 – K5	15	CO1-5
3	Portfolio Analysis 3.1 Computation of Risk and return of Portfolio - Modern Portfolio Theory – Markowitz Model and Single Index Model (SIM), CAPM – Capital Asset Pricing Model 3.2 Portfolio Performance Evaluation – Sharpe’s Measure, Treynor’s Measure and Jensen’s Measure	K1-K5 K1-K5	15	CO1-5
4	Equity Valuation and Bond Valuation 4.1 Equity Valuation Based on Dividend 4.2 Equity Valuation Based on Earnings – Gordon Model, Walter’s Model, PE Ratio and ERP (Explicit Resale Price Methods) 4.3 Bond Valuation – Bond Pricing, Yield to Maturity (YTM), Yield to Call (YTC)	K1 - K5 K1 – K5 K1 – K5	15	CO1-5
5	5.1 Fundamental Analysis 5.1.1 Economic Analysis – Theory 5.1.2 Industry Analysis – Theory 5.1.3 Company Analysis 5.2 Technical Analysis 5.2.1 Basic Assumptions of Technical Analysis 5.2.2 Theories, Techniques and Methods of Movement of Stock Prices 5.2.3 Important Charts and Patterns in technical Analysis	K1 - K5 K1 - K5 K1 – K5 K1 – K3 K1 – K3 K1 – K3	10	CO1-5

BOOKS FOR STUDY

Prasanna Chandra, *Investment Analysis and Portfolio Management*, McGraw Hill, 2021
 Dr. R.P. Rustagi, *Investment Analysis and Portfolio Management*, Sultan Chand & Sons, 2019
 Security Analysis and Portfolio Management – Dr. L. Natarajan, Margham Publications.

BOOKS FOR REFERENCE

V.K. Bhalla, *Investment Management* S. Chand Publications

Punithavathy Pandian, *Security Analysis and Portfolio Management*, Vikas Publishing House

Subrata Mukherjee, *Security Analysis and Portfolio Management*, Vikas Publishing House

JOURNALS

Security Analysis and Portfolio Management – A Primer (Springer)

Securities Analysis and Portfolio Management using Artificial Neural Networks (SSRN)

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components: Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination: Total Marks: 100 Duration: 3 hours.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/SP45												
	Course Title: SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	3	2	1	1	3	2	3	1	2
CO 2	3	3	2	1	3	2	2	1	3	2	1	1	2
CO 3	3	3	2	1	3	2	1	1	3	2	1	1	2
CO 4	3	3	2	1	3	2	1	1	3	2	1	1	2
CO 5	3	3	2	1	3	2	1	1	2	2	1	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

ADVANCED CORPORATE ACCOUNTING

CODE: 23CM/ME/AA45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to the accounting practices in specific industries
- To provide comprehensive knowledge about corporate accounting concepts
- To acquaint students with the accounting procedures for mergers and acquisitions
- To equip students with the ability to prepare consolidated financial statements
- To provide an understanding of the provisions relating to liquidation of a company

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Comprehend the accounting procedures for mergers and acquisition	K1
CO2	Prepare the consolidated financial statements of Holding companies	K2
CO3	Solve problems relating to the financial statements of Banking companies	K3
CO4	Categorize and prepare financial statements of Insurance companies	K4
CO5	Summarize accounts pertaining to Liquidation of companies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Holding Company Accounts 1.1 Meaning, Definition of Holding Company and Subsidiary Company 1.2 Preparation of Consolidated Balance Sheet – Calculation of minority interest, revenue profit, capital profit and cost of control or goodwill 1.4 Dividend received and Bonus shares	K1-K2 K3-K5 K3-K5	12	CO1-5
2	Amalgamation, Absorption and External Reconstruction 2.1 Meaning and Difference 2.2 Calculation of purchase consideration for amalgamation in the nature of merger and purchase 2.3 Accounting treatment in the books of the purchasing company and vendor company for merger and purchase excluding inter-company holdings	K1-K2 K1-K4 K1-K5	15	CO1-5
3	Bank Accounts 3.1 An overview of special terms in Bank accounting 3.2 Treatment of rebate on bills discounted 3.3 Computation of provision to be made for advances 3.4 Preparation of Profit and Loss account with schedules 3.5 Preparation of Balance Sheet with schedules	K1-K2 K2-K3 K1-K3 K1-K5 K1-K5	14	CO1-5
4	Insurance Accounts 4.1 An overview of special terms in Insurance Accounting 4.2 Accounts of General Insurance 4.3 Accounts of Life Insurance Companies	K1-K2 K3-K5 K3-K5	14	CO1-5
5	Liquidation of Companies 5.1 Meaning of Liquidation or Winding up, Modes of Winding up 5.2 Preparation of Statement of Affairs and Deficiency or Surplus account 5.3 Preparation of Liquidator's Final Statement of accounts	K1-K2 K2-K5 K2-K5	10	CO1-5

BOOK FOR STUDY

Gupta, R.L., Radhaswamy, M., *Advanced Accountancy (Vol I, III & IV)*, New Delhi, Sultan Chand and Sons, 2020.

Reddy, T.S., Murthy, A., *Corporate Accounting*, 6th revised edition, Chennai, Margham Publications, 2015

BOOKS FOR REFERENCE

Arulanandam, M.A., Raman, K.A., *Corporate Accounting*, 6th edition, Mumbai, Himalaya Publishing House, 2001.

Jain, S.P., Narang, K.L., *Advanced Accountancy(Part II)*, 15th edition, New Delhi, Vikas Publishing House, 2016.

Maheshwari, S.N., *Advanced Accountancy(Part II)*, 9th edition, New Delhi, Vikas Publishing House, 2006.

Joseph T. *Corporate Accounting*, 2nd edition, Tata McGrawhill Publications, 2009

Jain S. P and Narang K. L., *Advanced Accountancy (Vol- II)*, Kalyani, 2016

JOURNALS

Advances in Accounting Journal of Finance

Indian Journal of Commerce

Journal of Corporate Accounting and Finance

WEB RESOURCES

www.icai.org

www.emeraldgroupublishing.com

www.journals.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (4)	2 X 2 = 4	2 K1 question	2 K1 question (Theory)
B	K2 (6)	3 X 2 = 6	3 K2 question	3 K2 question (Problems)
C	K3 (10)	1 X 10 = 10	1 K3 question	2 K3 question (Problems)
D	K4 (10)	1 X 10 = 10	1 K4 question	2 K4 question (Problems)
E	K5 (20)	1 X 20 = 20	1 K5 question	2 K5 question (Problems)
	Total	50	8	11

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 X 2 = 10	5 K1 question	5 K1 question (Theory)
B	K2 (10)	5 X 2 = 10	5 K2 question	5 K2 question (Problems)
C	K3 (20)	2 X 10 = 20	2 K3 question	3 K3 question (Problems)
D	K4 (20)	2 X 10 = 20	2 K4 question	3 K4 question (Problems)
E	K5 (40)	2 X 20 = 40	2 K5 question	4 K5 question (Problems)
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/AA55												
	Course Title: ADVANCED CORPORATE ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	3	2	1	1	3	2	3	2	1
CO 2	3	2	1	1	3	2	1	1	3	1	2	1	1
CO 3	3	3	2	1	2	2	1	1	3	1	2	1	1
CO 4	3	3	2	1	2	1	1	1	3	1	1	1	1
CO 5	3	2	2	2	2	2	1	1	3	1	2	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

CONSUMER BEHAVIOUR

CODE:23CM/ME/CB45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To acquaint the students on the concept of consumer behaviour.
- To expose the students to consumer needs and wants.
- To provide knowledge on factors influencing consumer choice and purchase behaviour.
- To enable students to understand the target market and product positioning.
- To determine consumer preferences and choices.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	to acquaint students about their behaviour as a consumer	K1
CO2	to understand the models of consumer decision making process	K2
CO3	to identify the bases of market segmentation, target markets and product positioning	K3
CO4	to analyze the marketing strategies affecting consumer behaviour	K4
CO5	to evaluate the factors that determine consumer behaviour.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Consumer Behaviour 1.1 Definition - Meaning, Nature and Types 1.2 Scope and Importance of Consumer Behaviour. 1.3 Buying motives – Rational and Emotional	K1-K2 K1-K2 K1-K3	10	CO1-5
2	Consumer Decision Making Process 2.1 Meaning – Consumer Decision Making Process – Levels of Consumer Decision Making 2.2 Perceptions, Learning and Attitudes 2.3 Models of Consumer Decisions: Black Box Model, Learner Model, Economic Model	K1-K5 K1-K4 K3-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
3	Reference Group Influences 3.1 Functions of family – Family Life Cycle, family decision making process 3.2 Types of groups – Consumer relevant groups and Reference Groups 3.3 Characteristics and core values of Culture and Sub-Culture	K1-K4 K1-K4 K3-K5	15	CO1-5
4	Consumer Behaviour Analysis 4.1 Consumer Learning and Involvement 4.2 Marketing Mix Strategies - Product Strategy – Pricing Strategy – Distribution Strategy – Promotion Strategy 4.3 Consumer Decision Making Process - Problem identification and information processing - Evaluating alternatives and deciding on appropriate solutions	K1-K4 K1-K5 K3-K5	15	CO1-5
5	Relevance and Approaches of Consumer Research 5.1 Relevance and approaches of Consumer Research in Marketing 5.2 Market Segmentation – Methods and Criteria 5.3 Target Marketing and Positioning	K1-K3 K4-K5 K4-K5	10	CO1-5

BOOKS FOR STUDY

Schiffman, Kanuk and S.Ramesh Kumar, *Consumer Behaviour*, Pearson, 2015

Loudon and Bitta, *Consumer Behaviour, Concepts and Applications*, TMH, 2017

BOOKS FOR REFERENCE

Bennett and Kassanjian, *Consumer Behaviour*, Prentice Hall of BI publication, India, 2018

Jerome McCarthy E., William D Perreault, *Basic Marketing*, Boston, MA 022116,

Irwin Home Wood, 2004

Suja R. Nair, *Consumer Behaviour(Text and cases)*, Himalaya Publishing House, Mumbai, 2019

Consumer Behaviour and Marketing Strategy, Peter, J.P. and Olson, TMH, Latest Edition.

Consumer Behavior" by David Loudon and Albert Della Bitta, McGraw-Hill Education

/Asia; 4th edition

Consumer Behaviour: Text and Cases – by Satish Batra, S. H. H. Kazmi , Excel Books 2018

JOURNALS

Journal of Consumer Behavior

Journal of Consumer Research

Journal of Consumer Behavior Research

WEB RESOURCES

<https://iimbx.iimb.ac.in>

<https://www.clootrack.com>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
Total		50	8	11

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
Total		100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/CB45												
	Course Title: CONSUMER BEHAVIOUR												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	2	2	3	2	2	3	3
CO 2	3	3	3	2	2	3	3	1	3	3	2	3	3
CO 3	3	2	3	2	2	3	2	1	3	2	2	3	3
CO 4	3	3	3	2	2	3	3	1	3	3	2	3	3
CO 5	3	3	3	2	2	3	3	2	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023–2024)

RURAL MARKETING

CODE: 23CM/ME/RG45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To gain a deep understanding of characteristics, needs and challenges of rural marketing.
- To equip students with a comprehensive understanding of rural marketing strategies and practices.
- To familiarize students with digital marketing tools and techniques relevant to rural marketing.
- To highlight the need for agricultural marketing in relation to consumers and government
- To encourage students to take the initiative in identifying and capitalizing on rural marketing trends and opportunities.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	Description	CL
CO1	identify and recall the concepts, scope and challenges relating to rural marketing	K1
CO2	describe the nature and concept of agricultural marketing and rural marketing strategies.	K2
CO3	apply the knowledge of rural market dynamics to design marketing strategies for consumer behavior.	K3
CO4	analyze the rural infrastructure, challenges and roles relating to rural marketing.	K4
CO5	design comprehensive rural marketing plans with the help of recent trends.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HOURS	CO
1	Introduction 1.1 Rural Marketing- Concepts, Scope and Significance 1.2 Nature and evolution of Rural Marketing, Rural marketing strategies - 4 P's 1.3 Rural infrastructural facilities-Warehouse, cold storage 1.4 Steps in new product development	K1-K3 K1-K3 K1-K5 K1-K5	10	CO 1-5
2	Indian rural marketing and consumer behavior 2.1 Profile of Indian rural market, Rural vs Urban Market 2.2 Factors influencing rural marketing 2.3 Challenges and opportunities in rural market 2.4 Characteristics of buying behavior - Awareness, Understanding, and consumer purchase decision, Importance of rural marketing communication.	K1-K4 K1-K5 K1-K5 K1-K5	15	CO1-5
3	Agricultural marketing - In relation to Consumers 3.1 Concept , nature and types of agricultural produce 3.2 Nature and types of agricultural marketing 3.3 Marketing channels , Method of sales	K1-K5 K1-K4 K1-K5	15	CO 1-5
4	Agricultural marketing - In relation to Government 4.1 Importance, prospectus and Issues, role of cooperatives and self help groups (SHG) in rural marketing 4.2 Government schemes - Rural development programmes, Entrepreneurship development programmes, Food corporation of India 4.3 Role of agricultural co-operative banks	K1-K5 K1-K5 K1-K4	15	CO1-5
5	Recent trends in rural marketing 5.1 E-marketing - meaning, importance, Impact of E-Marketing on rural consumers. 5.2 Concept of digital village, Role of social media in rural marketing. 5.3 Role of online marketers - Growth and challenges.	K1-K4 K1-K5 K1-K5	10	CO1-5

BOOKS FOR STUDY

The Rural Marketing, Pradeep Kashyap, Siddarth Raut

Rural Marketing, C.S.G.Krishnamacharyulu

BOOKS FOR REFERENCE

SBPD Publications Rural Marketing - *Gramin Vipran*

Rural marketing concepts and practices by *N.Gopalakrishnan*

JOURNALS

"Agricultural Economics Research Review" - Published by the Indian Society of Agricultural Economics

"Journal of Rural Development" - Published by the National Institute of Rural Development and Panchayati Raj (NIRD&PR)

WEB RESOURCES

<https://www.tutorialspoint.com/>

<https://egyankosh.ac.in/bitstream/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
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	Total	50	8	11

Other Components: Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
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C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/RG45												
	Course Title: Rural Marketing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	3	1	1	1	3	2	2	2	2
CO 2	3	2	2	2	2	1	2	1	3	2	2	2	2
CO 3	3	3	2	2	3	3	2	1	3	3	2	3	2
CO 4	3	3	3	2	2	3	2	2	3	2	2	2	2
CO 5	3	3	3	2	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023-2024)

MARKETING ANALYTICS

CODE: 23CM/ME/MA45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to summarize data using excel sheet and construct pivot table.
- To develop knowledge about pricing models and theories.
- To exposes student on practical knowledge about sales forecasting using excel
- To develop understanding about market segmentation using classification tree and cluster analysis
- To study about forecasting new product sales using bass diffusion model using excel.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	tabulate data using excel sheet and construct pivot table and charts	K1
CO2	develop knowledge on pricing models and theories	K2
CO3	apply practical knowledge about sales forecasting using excel	K3
CO4	explain market segmentation using cluster and decision tree analysis	K4
CO5	evaluate New Product Sales and Customer Value	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HOURS	CO
1	Introduction – Summarizing Marketing Data using Excel 1.1 Slicing and Dicing Marketing Date with Pivot table 1.2 Summarizing marketing data using excel charts 1.3 Summarizing marketing data using excel functions	K1 – K4 K1 – K5 K1 – K5	10	CO1 -5
2	Pricing 2.1 Price Bundling 2.2 Price skimming and sales 2.3 Non – linear pricing	K1 – K2 K1 – K3 K1 – K5	15	CO1 -5

UNIT	CONTENT	CL	HOURS	CO
3	Forecasting Sales 3.1 Ratio to moving average forecasting methods. 3.2 Simple linear regression and correlation 3.3 Multiple regressions to forecast sales	K1 – K5 K1 – K5 K1 – K5	15	CO1-5
4	Market Segmentation 4.1 Cluster Analysis 4.2 Collaborative Filtering 4.3 Using classification trees for segmentation	K1 – K5 K1 – K5 K1 – K6	10	CO1 -5
5	Forecasting New Product Sales and Customer Value 5.1 Using S curve to forecast sales of a new product 5.2 The Bass diffusion model 5.3 Using the Copernican principle to predict duration of future sales 5.4 Calculating Lifetime customer value – using customer value to value a business 5.5 Customer value, Monte Carlo Simulation, and Marketing Decision	K1 – K4 K1 – K4 K1 – K6 K1 – K6 K1 – K5	15	CO1-5

BOOKS FOR STUDY

Wayne L. Winston, Wiley - *Marketing Analytics – Data Driven Techniques with MS Excel*

Mike Grigsby - *Marketing Analytics: a practical guide to improving consumer insights using data techniques*, Kogan Page publishers.

BOOKS FOR REFERENCE

Santino Spencer - *Marketing Analytics: 7 easy steps to master marketing metrics, data analysis, consumer insights & forecasting modeling*

Moutusy Maity, Pavankumar Gurazad - *Marketing Analytics for strategic decision making*

WEB RESOURCES :

<https://www.superheuristics.com/marketing-analytics-using-excel/>

JOURNALS

Journal of Marketing Analytics (Springer)

Applied Marketing Analytics

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components: Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination:

Total Marks: 100

Duration: 3 hours.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CM/ME/MA45												
	Course Title: Marketing Analytics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	1	1	3	2	2	1	1
CO 2	3	3	3	1	3	3	1	1	3	2	1	1	2
CO 3	3	3	3	1	3	3	1	1	3	3	2	1	1
CO 4	3	3	3	2	3	3	1	1	3	2	1	1	2
CO 5	3	3	3	2	3	3	1	1	3	3	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023 -2024)

INDIRECT TAXATION

CODE:23CM/ME/IT45

CREDITS:4

L TP:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide a broad conceptual framework for understanding different aspects of indirect taxes
- To give an insight into the complexity of the Taxation System of our country
- To expose students to the significance and constitutional provisions relevant to indirect tax laws
- To familiarize students in Goods and service tax
- To impart the skill of filing of returns under GST

COURSE LEARNING OUTCOMES

On successful completion of the course. the students will be able to

COS	DESCRIPTION	CL
CO1	Compare Tax vs Duty, Direct Tax vs Indirect Tax, explain powers of union/states	K1
CO2	Explain principles of valuation, procedure for assessment and payment of Customs duty	K2
CO3	Interpret the challenges in implementation of GST and ways to overcome them.	K3
CO4	Classify the provisions of customs act, levy and collection	K4
CO5	Assess the Value of GST and understand the periodicity of GST payment including due dates of filling returns	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Understanding Indirect tax 1.1 Introduction and origin of GST 1.2 Tax Vs Duty, Direct Tax Vs Indirect Tax 1.3 Powers of Union/States, Types of Indirect Taxes	K1-K2 K1-K4 K1-K4	10	CO1-CO2 CO1-CO4
2	Customs Duty 2.1 Factors for Levy of Customs Duty 2.2 Procedure for assessment and payment of Customs Duty 2.3 Types of Customs duty – Warehousing – Drawbacks	K1-K5 K1-K5 K1-K5	15	CO1-CO5
3	GST-An Overview 3.1 Introduction of Goods and Service tax in India, One Nation, One Tax, One Market ideology 3.2 Goods and Service Tax: Concepts, Meaning, Significance, Dual GST, Features and Benefits. 3.3 Structure and types of GST	K1-K5 K1-K5 K1-K5	15	CO1-CO5
4	GST Powers and Procedures 4.1 GST Council – Composition, functions, powers 4.2 GST Network, GST Practitioners – Qualifications and Enrolment Procedures, Registration under GST – procedures and formalities 4.3 E-forms, GSTIN – Amendment and Cancellation of Registration	K1-K5 K1-K5 K1-K5	12	CO1-CO5
5	CGST and IGST ACT 5.1 Supply- Meaning, Classification, Registration, Voluntary and Compulsory, Input Tax Credit Eligibility 5.2 Export and Import of goods and services, Inter State vs. Intra state supply, Place of supply, Role of GSTN in implementation of GST 5.3 Anti Profiteering rules, Doctrine of Unjust Enrichment, Challenges in implementation of GST	K1-K5 K1-K5 K1-K5	13	CO1-CO5

BOOKS FOR STUDY

Rajat Mohan, Goods & Services Tax, Bharat Law Publications House

Nitya Tax Associates, Basics of GST, Taxmann Dr. H.C. Mehrotra, Prof. V.P. Agarwal Indirect taxes

BOOK FOR REFERENCE

V S Datey, GST & Customs Law, Taxmann Publishers

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2 (6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question(one Problem one theory)
D	K4(10)	1x10=10	1K4 Question	2K4 Question(one Problem one theory)
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components: Total Marks: 50

Seminars/Quiz/Group discussion/Assignments/Class Presentation

End Semester Examination: Total Marks: 100 Duration: 3 hours.

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question (Two problem one theory)
D	K4(20)	2x10=20	2K4 Question	3K4 Question (Two problem one theory)
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code:23CM/ME/IT45												
	Course Title: INDIRECT TAXATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	1	1	2	1	2	2	3	1	3	1	3
CO 2	3	3	2	2	2	2	1	2	3	2	3	2	2
CO 3	3	1	1	1	1	2	3	1	2	3	3	3	3
CO 4	2	1	3	1	1	1	1	1	1	1	3	1	2
CO 5	3	3	3	1	1	2	2	2	3	3	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of Commerce for
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SYLLABUS

(Effective from the academic year 2023 – 2024)

FUNDAMENTALS OF INVESTMENT PLANNING

CODE: 23CM/GE/FI22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide students with an insight into personal finance options and to inculcate the habit of saving
- To enable students to develop skills for analyzing and planning personal investments
- To familiarize the students with different investment avenues.

COURSE LEARNING OUTCOMES (COs)

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the importance of the basics of personal savings and investment planning	K1
CO2	examine the various investment alternatives	K2
CO3	analyze the risks involved in investment	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial Planning 1.1 Financial planning – Meaning and Importance 1.2 Investment- Definition, Nature, Factors Influencing Investment. 1.2.1 Financial Planning- Meaning and Importance 1.2.2 The Personal Financial Planning Process, Preparation of Personal Budget 1.3 Personal Financial Statements, tax planning and legal aspects of financial planning 1.4 Investment Media, Principles, Avenues and Modes.	 K1 - K3 K1 - K3 K1 - K3 K1 - K3	10	CO1-3
2	Investment options and operational scenario. 2.1 Needs and benefits of investing 2.2 Sources of financial information 2.3 Personal Savings & Investment: Investment Criteria- Liquidity, Safety and Profitability, Savings and Instruments of Post Office and Banks, Chit Funds, Investment in Shares, Debentures, Corporate and Government Bonds 2.4 Systematic Investment Planning, National Pension Scheme, Public Provident Fund (Retirement Savings Plans, Pension Plans)	 K1 - K3 K1 - K3 K1 - K3 K1 - K3	8	CO1-3
3	Insurance and Risk Management 3.1 Analysis of Risk in Investment (Theory) 3.2 Insurance Contract: Life Insurance Contract- Features, Policy, Conditions and General Insurance Plans and Products	 K1 - K3 K1 - K3	8	CO1-5

BOOKS FOR STUDY

Madhu Sinha, *“Financial Planning: Theory and Practice”* Tata McGraw-Hill Publishing Company Ltd, New Delhi

Ankit Gala and Khushboo, *“Investment Planning”* Buzzing Stock Publishing house, Mumbai

BOOKS FOR REFERENCE

Dr. P.K. Gupta, *Insurance and Risk Management*, Himalaya Publishing House, Mumbai
Ranganathan and Madhumathi, *Investment Analysis and Portfolio Management*, Pearson, New Delhi

Risk analysis, Insurance and Retirement Planning; Taxmaan; 2017

Information Brouchers of Post Offices, Banks, Mutual Funds, Insurance Companies

JOURNALS

Journal of Financial Planning

Journal of Personal Finance

The Journal of Investing

WEB RESOURCES

www.moneycontrol.com

www.investopedia.com

www.amfiindia.com

www.nationwide.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

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SYLLABUS

(Effective from the academic year 2023 -2024)

CUSTOMER CARE AND PROTECTION

CODE: 23CM/GE/CC22

CREDITS : 2

L T P : 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To sensitize students to the need for customer protection
- To provide an understanding to the students about the legal measures for customer protection in India
- To understand the role of different agencies in establishing product and service standards

COURSE LEARNING OUTCOMES (COs)

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the emerging issues and policies relating to consumer protection	K1
CO2	understand the rights and privileges of a customer	K2
CO3	comprehend the procedures for handling Consumer Disputes	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Conceptual Framework 1.1 Consumer and Markets 1.1.1 Concept of Consumer, Nature of Market 1.1.2 Concept of Price – Wholesale and Retail, Maximum Retail Price 1.1.3 Labelling and Pricing 1.2 Customer Satisfaction and Dissatisfaction-Factors 1.3 Rights of the Consumers	 K1 – K3 K1 – K3 K1 – K3	8	CO1-3
2	Grievance Redressal Mechanism 2.1 Types of Complaints-Frivolous Complaints and Vexatious Complaints 2.2 Grounds of Filing a Complaint, Procedure, Relief, Legal and Voluntary Measures 2.3 Doctrine of Caveat Emptor, Caveat Emptor Vendor 2.4 Role of the Media and Government	 K1 – K3 K1 – K3 K1 – K3 K1 – K3	10	CO1-3
3	Consumer Protection in India 3.1 Recent Developments in Consumer Protection in India 3.2 COPRA 3.3 Legal Cases in India 3.3.1 Banking- RBI and Banking Ombudsman 3.3.2 IRDA 3.3.3 Telecommunication-TRAI 3.3.4 Food Products-FSSAI 3.3.5 Advertising-ASCI	 K1 – K3 K1 – K3 K1 – K3	8	CO1-5

BOOKS FOR STUDY

Dr. Roopa Om Mathur-*Consumer protection* - Vayu Education of India.
Agarwal V.K. *Consumer Protection Law and Practice*, 5th ED, New Delhi. BLH Publishers, Distributors Pvt Ltd 2009

BOOKS FOR REFERENCE

Barowalis JN *Commentary on the consumer Protection Act*, 3rd Ed, Delhi. Universal Law Publishing Co. Pvt Ltd 2008
Dugar SM *Commentary on Consumer Protection Law*, Vol.2. 4th Ed, Nagpur. Wadha and Company 2006
Gambhir Cheena, *Consumer Protection Administration - Organization and Working*, New Delhi. Deep and Deep Publication Pvt Ltd 2007

JOURNALS

Consumer Protection Judgements (CPJ)
Recent Issues of Magazines-Insite
Consumer Voice

WEB RESOURCES

www.ncdr.nic.in
www.trai.gov.in
www.fssai.gov.in

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components **Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

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SYLLABUS

(Effective from the academic year 2023 – 2024)

SOCIAL MEDIA MARKETING

CODE: 23CM/GE/SM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To provide students with an insight into the nature and scope of social media marketing
- To expose students to the different forms of social media
- To provide students an outline about content marketing

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the use of social media as a marketing tool	K1
CO2	understand the influence of multiple social media channels in branding.	K2
CO3	analyze suitable content marketing strategies in the promotion of a product	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Introduction to Social Media- Meaning, Scope, Importance and Relevance of Social Media Marketing 1.2 Benefits and Pitfalls of Social Media Marketing 1.3 Role of Social Media Marketing- Goals and Strategies	 K1 – K3 K1 – K3 K1 – K3	8	CO1-3
2	Social Media Channels 2.1 Social Media Platforms- Facebook, Blogs, Microblogging, Twitter, YouTube, Instagram and LinkedIn, Pinterest, Google+, Foursquare, Snapchat and Customer Personas 2.2 Social Book Marking 2.3 Social Listening - an Insight	 K1 – K3 K1 – K3 K1 – K3	10	CO1-3
3	Content Marketing 3.1 Meaning and its Importance 3.2 Types of Social Media Content- Interactive Content, Strongly Positive Content, Visual Content and User Generated Content, e-Books	 K1 – K3 K1 – K3	8	CO1-5

BOOKS FOR STUDY

Social Media Marketing: *A Strategic Approach*, 2E. Barker, Barker, Bormann and Neher, 2017 South-Western, Cengage Learning,
 David Meerman Scott, *The New Rules of Marketing & PR*, 5th Edition.

JOURNALS

Journal of Digital and Social Media Marketing
 Indian Journal of Marketing

WEB RESOURCES

<http://www.socialmediatoday.com>
www.searchengineland.com
<http://smallbusiness.yahoo.com>
<http://brand24.com>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	$5 \times 1 = 5$	5 K1 question	5 K1 question (Objective)
B	K2 (10)	$5 \times 2 = 10$	5 K2 question	7 K2 question (Theory)
C	K3 (10)	$2 \times 5 = 10$	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

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SYLLABUS

(Effective from the academic year 2023-2024)

BANKING PRACTICES

CODE:23CM/GE/BP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To educate the students on the new developments in the banking sector
- To provide the students with an opportunity to understand the significance of banking services
- To acquire knowledge and skills for practical banking operations

COURSE LEARNING OUTCOMES

On successful completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	outline the banking system in india	K1
CO2	identify the banking operations offered to a customer	K2
CO3	comprehend knowledge on e-banking and importance in today's scenario	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 An Overview of Banking System in India – Commercial Bank - Functions and Services 1.2 Types of Bank Accounts-Opening of Bank Accounts 1.3 Forms of Lending-Loans-Types of Loans 1.4 Closing of Bank Accounts – Procedure	 K1 – K3 K1 – K3 K1 – K3 K1 – K3	10	CO1-3
2	Documents used in Banking 2.1 Importance of Documentation 2.2 Application Form for Opening of Accounts - Saving Bank (SB), Fixed Deposit, Current Account and Recurring Deposit, KYC 2.3 Pay In Slip, Withdrawal Slip, Demand Draft Applications, Cheque, Demand Loans, etc. 2.4 Application for Closing of Accounts and Transfer of Funds	 K1 - K3 K1 - K3 K1 - K3 K1 - K3	8	CO1-3
3	E- Banking 3.1 Meaning and Importance of Net Banking. 3.2 Internet Banking, Mobile Banking, Telebanking Banking, Point of Sale Terminal 3.3 Credit Card, Debit Card, Smart Card, NEFT, E-Wallet 3.4 Automated Teller Machine and its Advantages 3.5 Electronic Fund Transfer, Electronic Clearing Services 3.6 Digital Signature	 K1 - K3 K1 - K3 K1 - K3 K1 - K3 K1 - K3 K1 - K3	8	CO1-5

BOOKS FOR STUDY

Gurusamy S. *Banking Theory Law and Practice*. 2nd ed. Chennai: Vijay Nicole, 2015.
P.N Varshney. *Banking Theory Law and Practice*. 22nd ed. New Delhi: Sultan Chand, 2017

BOOKS FOR REFERENCE

Indian Institute of Banking and Finance, Principles and Practices of Banking, Macmillan Education, 2015.

Gordon E. and K.Natarajan. *Banking Theory Law and Practice*. 19th ed. Mumbai: Himalaya, 2016.

Sundharam K.P.M. and P.N Varshney. *Banking Theory Law and Practice*. 22nd ed. New Delhi: Sultan Chand, 2015.

JOURNALS

Journal of Banking and Finance

Banking and Financial Services – The Business

Journals International Journal on Electronic Banking

WEB RESOURCES

www.academia.edu

www.lawhandbook.sa.gov

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

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**General Elective Course offered by the Department of Commerce for
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SYLLABUS

(Effective from the academic year 2023 – 2024)

E-FILING OF RETURNS

CODE:23CM/GE/EF22

CREDITS: 2

L T P : 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide the students the conceptual and practical knowledge about electronic filing of returns
- To educate the students on basics of taxation laws
- To enable students to be self-reliant in individual tax calculation

COURSE LEARNING OUTCOMES

On successful completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	ascertain the taxable income of individual	K1
CO2	compute the tax liability of an individual	K2
CO3	comprehend with the taxable provisions and File taxes online (e-filing)	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 An Overview of Computation of Income tax under the Five Heads of Income 1.2 E-Filing – Meaning, Importance and Difference between E-Filing and Regular Filing of Returns 1.3 Benefits and Limitations of E-Filing 1.4 Types of e-Filing - e-File without Digital Signature Certificate. e-File the Income Tax Return (ITR-V) through an e-Return Intermediary (ERI) with or without Digital Signature Certificate (DSC) and Use Digital Signature Certificate (DSC) / EVC	K1-K2 K1-K2 K1-K2 K1-K2	10	CO1-2
2	E-Filing Process 2.1 Registration to E-portal through log in (ADHAR, PAN, TAN, TIN and DIN) 2.2 Recording and uploading of Documents 2.3 E-file ITR 2.4 E-Verify	K1 – K3 K1 - K3 K1 – K3 K1 - K3	5	CO1-4
3	E-Payment of Tax 3.1 Tax Payment through Online Banking 3.2 Procedure to adjust Advance Tax 3.3 Refund - Procedure	K1 - K3 K1 - K3 K1 - K3	11	CO1-3

BOOKS FOR STUDY

Swatantra Sethi, *Self-Preparation and Filing of Income Tax Returns by Individuals* Kindle Edition, 2018

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi, Kalyani Publishers,

BOOKS FOR REFERENCE

Lal B.B., *Income Tax Law and Practice*, , , Konark Publishers Limited, New Delhi

Manoharan T. N. *Income Tax Law*, Mumbai, Snow White Publications

Mehrothra, H.C., *Income Tax Law and Practicum*, , Sahithya Bhavan Publications, Agra

Vinod K., Singhania, *Taxman's Students Guide to Income Tax*, Taxman's Publications Pvt.Ltd., New Delhi

Vinod K., Singhania, *Indirect tax*, 2014-15 Taxman's Publications Pvt. Ltd., New Delhi

NOTE: Latest edition of the readings may be used

JOURNALS

Journal of

taxation

National tax

journal

WEB RESOURCES

www.ntanet.org/tax

www.aicpa.org

www.icaew.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 (5)	5 X 1 = 5	5 K1 question	5 K1 question (Objective)
B	K2 (10)	5 X 2 = 10	5 K2 question	7 K2 question (Theory)
C	K3 (10)	2 X 5 = 10	2 K3 question	4 K3 question (Theory)
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. Com. (GENERAL) DEGREE PROGRAMME

SYLLABUS

(Effective from the academic year 2023–2024)

NEW AGE MARKETING

CODE: 23CM/UI/NM23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To Gain a deep understanding of how marketing has evolved in the digital age and recognize the fundamental changes that have shaped modern marketing strategies.
- To Acquire the skills to analyze marketing campaigns, evaluate their performance, and make data-driven decisions for optimization and improvement.
- To Learn how to create and implement holistic marketing strategies that integrate multiple digital channels for maximum impact.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recognize the importance of adaptation and innovation in contemporary marketing strategies.	K1,K2
CO2	assess the role of artificial intelligence (AI) and machine learning (ML) in marketing.	K3
CO3	measure and evaluate the performance of marketing campaigns and initiatives.	K4
CO4	present a final marketing campaign project that applies the knowledge and skills acquired throughout the course.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT
1	Introduction to new age marketing 1.1 Evolution of marketing in the digital age 1.2 Importance of adaptation and innovation 1.3 Key Concepts in New Age Marketing Customer-Centric Approach, Data-Driven Decision Making
2	Digital marketing channels 2.1 Content Marketing in the Digital Era, Social Media Marketing and Influencer Marketing 2.2 Search Engine Marketing (SEM) and SEO, Mobile Marketing and App Marketing 2.3 Email Marketing and Marketing Automation, E-commerce and Online Marketplaces
3	Analytics and Insights 3.1 Introduction to Marketing Analytics 3.2 Customer Data and Segmentation, Measuring Campaign Performance 3.3 Data-Driven Decision Making, Ethics and Privacy in Data Usage
4	Emerging Technologies 4.1 Artificial Intelligence (AI) and Machine Learning (ML) in Marketing 4.2 Chatbots and Virtual Assistants, Augmented Reality (AR) and Virtual Reality (VR) 4.3 Voice Search and Smart Devices
5	Marketing Strategy and Future Trends 5.1 Omnichannel Marketing and Integration, Preparing for the Future of Marketing

BOOKS FOR STUDY

Upinder Dhar, Nath VV, Sathish K Nair, Prabath Kumar Yadhav, *New Age Marketing*, Institute of Management, Nirma University of Science and technology, Excel Books 2008

Ryan Deiss and Russ Henneberry, *Digital Marketing for Dummies*,

"Artificial Intelligence in Practice: How 50 Successful Companies Used AI and Machine Learning to Solve Problems" by Bernard Marr

Fedrick G Crane, *Marketing for Entrepreneurs*,

BOOKS FOR REFERENCE

"Building a Story Brand: Clarify Your Message So Customers Will Listen" by Donald Miller

Nir Eyal, *Hooked: How to Build Habit-Forming Products*

PATTERN OF ASSESSMENT

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2 (10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE (GENERAL), PROGRAMME

SYLLABUS

(Effective from the Academic Year 2023-2024)

CONSUMER RIGHTS

CODE: 23CM/UI/CR23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To provide knowledge about consumerism and related laws
- To enable an understanding of the importance of consumer rights
- To educate students on the rights and responsibilities of a consumer

COURSE LEARNING OUTCOMES

On successful completion of this course students will be able to

- Identify the need for consumer protection and the areas covered by consumer protection law
- Learn and evaluate the various forms of consumer exploitation
- Analyse and evaluate the rights of the consumer
- Understand the business malpractices and legislative regulations to protect consumers.

Unit 1

Consumers

- 1.1 Meaning of Consumers-Customers
 - 1.1.1 Consumer Movements – Historical Perspectives
 - 1.1.2 Concept of Consumerism – Need and Importance

Unit 2

Consumer Exploitation

- 2.1 Meaning, Causes of Consumer Exploitation
- 2.2 Forms of Consumer Exploitation – Underweight Measures, High Prices, Substandard Quality, Poor or Inadequate After Sales Services
- 2.3 Challenges of Consumer Exploitation

Unit 3

Consumer Rights and Duties

- 3.1 Consumer Rights – John F Kennedy's Consumer Bill of Rights
- 3.2 Types of Consumer Rights – (Right to Safety, Right to Information (RTI), Right to Redressal, Right to Consumer Education)
- 3.3 Duties of Consumers

Unit 4

Copra Act 1986

- 4.1 Introduction to COPRA Act
- 4.2 Consumer Protection Council – Central, State, Districts Consumer Protection Councils
- 4.3 Consumer Dispute Redressal Procedure

Unit 5

Consumerism in India

- 5.1 Reasons for the Growth of Consumerism in India
- 5.2 Recent Trends in Consumerism
- 5.3 Problems Faced by Consumers in India – Case Studies

BOOKS FOR STUDY

Mohammed Kamalun Nabi, Mohammed Irshadun Nabi, Kishore C. Raut, Consumer Rights & Protection in India, New Century Publications, 2015.

Steven Miles, Consumerism: As a Way of Life, SAGE Publications Ltd, 2012.

BOOKS FOR REFERENCE

Anirban Chakraborty. Law of Consumer Protection Advocacy and Practice. India: Lexis Nexis, 2014.

Miller C.J., Brian W. Harvey, Deborah L Parry. Consumer and Trading Law. Oxford University, 1998.

Rajyalakshmi Rao. Consumer is king!! Know your rights and remedies. Universal,

2012. Rao, Y.V. Commentary on Consumer Protection Act. Asia House, 2013

JOURNALS

Journal of Consumer Policy
International Journal of
Consumerism Journal of
Consumer Affairs

WEB RESOURCES

www.researchgate.net
www.jpsssm.org
www.scim

PATTERN OF ASSESSMENT

End Semester Examination:

Section A – 10 X 2 = 20 Marks

Section B – 5 X 8 = 40 Marks

Section C – 2 X 20 = 40 Marks

Total Marks: 100

Duration: 3 hours



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.Com. DEGREE
CORPORATE SECRETARYSHIP
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI

DEPARTMENT OF COMMERCE – SHIFT II

BACHELOR OF COMMERCE IN CORPORATE SECRETARYSHIP

PROGRAMME DESCRIPTION

B.Com. Corporate Secretaryship, a three-year degree programme, primarily focuses on the areas of secretarial practices and corporate laws. The programme is designed to bridge the gap between conceptual learning and practical application to inculcate professional corporate expertise. The combination of core skills and specialised knowledge provided in this programme would enable students to adapt effectively to the dynamic business environment. Internship and Practical Application are an integral part of the programme. An exposure to corporate proceedings enables the students to maintain documents in accordance with accounting standards and procedures. Drafting and Conveyancing, the flagship course in Corporate Secretaryship, helps in enriching the professional skills of the students.

VISION OF THE DEPARTMENT

In consistent with the vision of the College, we are in pursuit of excellence in Commerce, by providing a vibrant and innovative Centre of Learning for the students to realize their potential and facilitate them to become business leaders and entrepreneurs with essential virtues of ‘Truth and Charity’ thereby upholding the motto of the College.

MISSION OF THE DEPARTMENT

Our mission is to excel as a transformational leader in Commerce, by equipping the students with sound theoretical knowledge and application skills to surge ahead in their career, adequately molding them to meet the challenges of the emerging "Knowledge Society" besides inculcating humane values in them for the well-being of the society.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.Com. in Corporate Secretaryship programme, the students will be able to

PSO 1	Acquire knowledge in the various areas of Corporate Secretaryship and laws relating to Trade and Commerce
PSO 2	Keep pace with dynamic global industry changes
PSO 3	Assess, rectify and report the incidents of legal compliance and breaches
PSO 4	Appreciate the significance of ethics in business and identify unethical practices
PSO 5	Demonstrate a comprehensive knowledge of the concepts and sustainable principles and practices

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Com. Corporate Secretaryship 2023 - 2024 Shift II														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4									6	8
Part - II														
English	3	4	3	4									6	8
											Total		12	16
Part - III														
Major Core	4	5	3	4	4	5	4	5	4	5	4	5	23	29
	3	4	3	4	4	5	4	5	4	5	4	5	22	28
					4	5	4	5	3	4	4	5	15	19
					3	4	3	4	3	4	3	4	12	16
Allied Core	5	5	5	5	5	6	5	5					20	21
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		107	129
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3	3	3									6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1		1				1			0	3
Mentoring		1						1		1		1	0	4
											Total		4	9
Total	26	30	26	30	24	30	25	30	23	30	25	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks								
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES
SEMESTER-I								
23CO/MC/CM14	Cost and Management Accounting	4	4	1	0	3	50	50
23CO/MC/OS13	Organisation Structure and Management	3	3	1	0	3	50	50
23CO/AC/QT15	Quantitative Techniques for Business	5	5	0	0	3	50	50
23CO/GC/ES12	Environmental Studies	2	2	0	0	-	50	-
23CO/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-
CD / ET / SC	Value Education							
SEMESTER-II								
23CO/MC/FA23	Financial Accounting	3	3	1	0	3	50	50
23CO/MC/CG23	Corporate Ethics and Governance	3	3	1	0	3	50	50
23CO/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-
	General Elective I / Basic Tamil I							
Allied Core offered to students of Commerce(Corporate Secretaryship) by Dept. of Economics								
23EC/AC/EB25	Economic Environment of Business	5	5	0	0	3	50	50
SEMESTER-III								
23CO/MC/EC34	Economic and Commercial Law	4	4	1	0	3	50	50
23CO/MC/BF34	Banking and Financial Services	4	4	1	0	3	50	50
23CO/MC/CL34	Company Law	4	4	1	0	3	50	50
23CO/MC/CA33	Compliance Audit	3	3	1	0	3	50	50
23CO/AC/CB35	Practical	5	1	1	4	3	50	50
CD / ET / SC	Value Education							
	General Elective II / Basic Tamil II							
SEMESTER-IV								
23CO/MC/IF44	Introduction to Financial Management	4	4	1	0	3	50	50
23CO/MC/CM44	Capital Markets	4	4	1	0	3	50	50
23CO/MC/IL44	Industrial Law	4	4	1	0	3	50	50
23CO/MC/IP43	Intellectual Property Rights	3	3	1	0	3	50	50
23CO/AC/CO45	Corporate Law	5	5	0	0	3	50	50
	Major Elective I							
SEMESTER-V								
23CO/MC/IT54	Income Tax Practices	4	4	1	0	3	50	50
23CO/MC/CR54	Corporate Accounting and Restructuring	4	4	1	0	3	50	50
23CO/MC/DC53	Drafting and Conveyancing	3	3	1	0	3	50	50
23CO/MC/SP53	Secretarial Practice	3	3	1	0	3	50	50
	General Elective III							
	SAP / SL							

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks								
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES
Interdisciplinary Core (CO and BFE) to students of CO and BFE								
23ID/IC/DI55	Design Thinking and Innovation for Entrepreneur	5	5	1	0	3	50	50
SEMESTER-VI								
23CO/MC/GT64	Goods and Services Tax	4	4	1	0	3	50	50
23CO/MC/SL63	Social Security Laws	3	3	1	0	3	50	50
23CO/MC/DC64	Due Diligence and Compliance Management	4	4	1	0	3	50	50
23CO/MC/IN64	Internship	4	0	0	5	3	50	50
23VE/SS/HL63	Life Skills: An Approach to a Holistic Way of Life	3	3	0	0	-	50	-
	General Elective IV							
	Major Elective II							
Major Electives								
23CO/ME/IR45	Industrial Regulations	5	5	0	0	3	50	50
23CO/ME/HR45	Human Resource Management	5	5	0	0	3	50	50
23CO/ME/ED45	Entrepreneurial Development	5	5	0	0	3	50	50
23CO/ME/EM45	Essentials of Marketing	5	5	0	0	3	50	50
23CO/ME/CM45	Commodities Market	5	5	0	0	3	50	50
General Electives								
23CO/GE/DC22	Documentation and Compliance	2	2	0	0	-	50	-
23CO/GE/LS22	Listing of Securities	2	2	0	0	-	50	-
23CO/GE/RI22	Right to Information Act	2	2	0	0	-	50	-
23CO/GE/CC22	Company Secretarial Correspondence	2	2	0	0	-	50	-
The Department will offer one Social Awareness Course								
Social Awareness Courses								
23CO/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-
23CO/SA/CR52	Child Rights	2	2	0	0	-	50	-
23CO/SA/CA52	Civic Awareness	2	2	0	0	-	50	-
23CO/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-
23CO/SA/MH52	Mental Health	2	2	0	0	-	50	-
23CO/SA/RR52	Rural Realities	2	2	0	0	-	50	-
23CO/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-
23CO/SA/UR52	Urban Realities	2	2	0	0	-	50	-
23CO/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-
Independent Elective								
23CO/UI/CM23	Compensation Management	3	0	0	0	3	-	100

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STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

COST AND MANAGEMENT ACCOUNTING

CODE:23CO/MC/CM14

CREDITS:4

L T P: 4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable students to understand the concepts, techniques and practices of cost and management accounting
- To expose students to the computation of cost of production and profit
- To provide students an understanding of the techniques used to compare the financial statements of companies
- To acquaint students with techniques in decision making
- To familiarize students with the different types of budgets and its preparation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the elements of cost and compute the total cost and profit for a product or service	K1
CO2	explain apportionment of overheads and its product/department wise distribution	K2
CO3	apply suitable techniques for financial decision making	K3
CO4	analyse and interpret the financial position of different corporates	K4
CO5	evaluate the need for an appropriate budget and its preparation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Cost and Management Accounting 1.1 Introduction 1.1.1 Cost and Management Accounting- Meaning, Objectives and Scope-Differences between Cost Accounting and Management Accounting	K1-K2	1	1-2
	1.1.2 Cost Concepts- Cost Centre and Cost Unit, Methods of Costing. Classifications and Elements of Cost-Material, Labour and Overheads	K1-K5	1	1-5
	1.1.3 Computation of Total Cost and Profit of a product		3	

	1.2 Material Cost 1.2.1 Computation of Material Cost-Treatment of Normal and Abnormal Loss and scrap	K2-K5	3	2-5
	1.2.2 Material Control- Meaning and Objectives Purchases Control-Procurement	K1-K5	3	1-5
	1.2.3 Stores Control- Techniques of Inventory Control, Economic Order Quantity		1	
	1.2.4 Issue Control- Methods of Material Issue-FIFO, LIFO, Average Cost- Simple Average and Weighted Average		3	
2	Labour and Overheads 2.1 Labour Cost- Meaning and Classification of Labour Costs- Overtime and Idle Time	K1-K2	1	1-2
	2.1.1 Labour Turnover-Causes and Effects, Methods of Computation	K1-K5	2	1-5
	2.1.2 Methods of Remuneration-Time rate, Piece rate, Incentive Scheme- Halsey and Rowan plan		2	
	2.2 Overheads 2.2.1 Classification of Overheads	K1-K2	1	1-2
	2.2.2 Apportionment and Allocation of Overheads-Primary and Secondary Distribution (Repeated, Step Ladder, Simultaneous Equation and Direct apportionment method)	K1-K5	2	1-5
	2.2.3 Methods of Absorption of Overheads-Direct Labour rate, Machine hour rate and Activity based Absorption		2	
3	Financial Statement Analysis 3.1 Significance of Financial Statement Analysis	K1-K2	1	1-2
	3.2 Comparative, Common size and Trend Analysis	K1-K5	5	1-5
	3.3 Ratio Analysis –Liquidity, Profitability, Solvency ratios		5	
	3.4 Reconstruction of Position Statement with Ratios (Simple Problems)		4	
4	Marginal Costing - 4.1 Marginal Costing- Meaning, Advantages, Limitations, Breakeven Analysis	K1-K2	5	1-2
	4.2 Cost-Volume Profit Analysis- P/V Ratio - Margin of Safety	K1-K5	5	1-5
	4.3 Application – Key factor, Product Mix and Sales Mix		5	
5	Budgets and Types 5.1 Need and Importance	K1-K2	2	1-2
	5.2 Types of Budgets - Production Budget, Purchase Budget, Sales Budget, Cash Budget, Flexible Budget	K1-K5	8	1-5

BOOKS FOR STUDY

T.S. Reddy and Y.Hari Prasad Reddy, Cost and Management Accounting, Margham Publication, Reprint 2018.
Ravi.M. Kishore, Cost and Management Accounting, Taxmann Publishers, 2021

BOOKS FOR REFERENCE

Tulsian, Cost and Management Accounting, S.Chand, 2022
Tulsian, Cost Accounting, S.Chand, 2017
MN Arora, A Textbook of Cost and Management Accounting, Himalaya Publishers, 2021
SN Maheshwari, Accounting for Management, S.Chand Publication, 2018
Jain and Narang, Cost Accounting Kalyani Publishers, 2019
R. Palaniappan, N.Hariharan, Cost Accounting Problems and Solutions, I K International Publishing House Pvt Ltd., 2014
Khan & Jain, Management Accounting, Tata McGraw Hill, 2013

JOURNALS

Journal of Management Accounting Research.
Management Accountant Journal
Journal of Cost Accounting Research

WEB RESOURCES

www.icsi.org
www.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice - 1 theory and 2 Problem)
B	K2	10	2X5 =10 (out of 3 Questions -1 Theory and 2 problems)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question- Only Problems)
D	K5	10	1×14 = 14 (out of 2 questions - Only Problems)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice -3 problems and 2 theory)
B	K2	20	4 × 5 = 20 (out of 6 questions -5 Problems and 1 theory)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions – Only Problems)
D	K5	30	2 × 15 = 30 (out of 3 questions - only Problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/CM14												
I	Course Title: COST AND MANAGEMENT ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	1	2	3	3	3	2	3
CO 2	3	3	3	2	1	1	1	-	3	3	2	2	2
CO 3	3	3	3	3	3	3	3	3	3	2	2	3	3
CO 4	3	3	3	3	3	2	3	2	3	3	2	2	2
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

ORGANISATION STRUCTURE & MANAGEMENT

CODE:23CO/MC/OS13

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To enable students to appreciate the principles of management
- To familiarize students with the different management thoughts
- To acquaint students with the need for competence, trust and teamwork in the organisation
- To provide an understanding of the functions of management
- To expose students to the recent practices in management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the concept, importance and framing of organization structure and classical approach to management	K1
CO2	compare the various types of control process and changes in organisation	K2
CO3	apply the analytical skills for planning and decision making	K3
CO4	distinguish between different organizational structures and leadership styles	K4
CO5	assess the various skills and procedures required for effective management of employees in an organization	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Organisation Structure 1.1. Meaning, Importance and Role of Organisation Structure	K1-K2	1	1-2
	1.2 Theory of Organisation Structure	K1-K5	1	1-5
	1.3 Impact of Environment and Cultural Variables on Organisational Structure		1	
	1.4 Building Blocks of Organisation Structure 1.4.1 Centralisation		2	
	1.4.2 Formalisation		2	
	1.4.3 Hierarchical Levels	K1-K3	2	1-3
	1.4.4 Departmentation	K1-K5	2	1-5
2	Introduction to Management 2.1. Management Thought 2.1.1 Classical and Neo Classical Systems – Contingency and Contemporary	K1-K2	1	1-2
	2.1.2 Approach to Management - Henri Fayol, F.W Taylor, George Elton Mayo and Peter.F Drucker	K1-K5	4	1-5
	2.2 Functions of Management I 2.2.1 Planning - Meaning, Importance, Types and Process	K1-K4	3	1-4
	2.2.2 Organising – Nature and Importance, Organising Trends and Practices – Chain of Command, Unity of Command, Span of Control, Delegation and Empowerment	K1-K5	4	1-5
3	Functions of Management II 3.1 Staffing 3.1.1 Recruitment and Selection	K1 – K5	2	1-5
	3.1.2 Training – Need and Types	K1 – K4	2	1-4
	3.2 Directing	K1 – K5	2	1-5
	3.2.1 Motivation – Meaning and Maslow’s Theory of Motivation		2	
	3.2.2 Leadership		2	
	3.2.3 Communication – Types, Process and Barriers		2	

4	Functions of Management III 4.1 Controlling - Meaning, Importance, Steps in the Process of Controlling, Types and Techniques of Controlling	K1 – K5	4	1-5
	4.2 Co-ordinating - Meaning, Need, Requisites		4	
5	Recent Developments in Management 5.1 Change Management - Concept, Nature and Process of change	K1- K5	4	1-5
	5.2 Knowledge management, Total Quality Management and Business Process – Re-Engineering - An Overview		5	

BOOKS FOR STUDY

Gupta, C. B., *Business Organization and Management*, New Delhi, Sultan Chand and Sons, 2019.

Prasad L.M., *Principles and Practice of Management*, New Delhi, Sultan Chand and Sons, 2021

BOOKS FOR REFERENCE

Neeru Vasisth and Vibhuti Vasisth ,*Principles of Management* , Taxmann's Publications , 2022

Manmohan Prasad, *Management Concepts and Practices*, Mumbai, Himalaya Chand, 2021

R.K.Sharma And Shashi Gupta ,*Business organization management* ,Kalyani Publication , 2019

P.Venugopal, P. Roja, G. Venkata Rathnam, N. Ravi Sankar, Nagaraj. K.V., *Business Organization.*, Himalaya Publishing House., 2015

JOURNALS

European Journal of Business Management

International Journal of Management Reviews

WEB RESOURCES

www.exed.hbs.edu

www.hbr.org

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 Minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice-50 words)
B	K2	10	2X5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question-500 words)
D	K5	10	1×14 = 14 (out of 2 questions-1000 words)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice-50 words)
B	K2	20	4 × 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 × 15 = 30 (out of 3 questions-1000 words)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CO/MC/OS13												
I	Course Title: Organization Structure and Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	3	1	2	2	1	2	3	3	2	2	2
CO 2	2	3	3	2	1	1	1	-	1	3	2	2	2
CO 3	3	3	3	3	3	3	3	3	1	2	1	2	1
CO 4	2	3	3	3	3	2	3	2	1	1	1	2	2
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

QUANTITATIVE TECHNIQUES FOR BUSINESS

CODE: 23CO/AC/QT15

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To familiarize students on the use of statistical tools
- To provide an understanding of the process of analysis and interpretation
- To expose students to the concepts related to testing of hypothesis
- To enable students to study the relationship between variables used in research
- To apply the appropriate statistical tools for data analysis

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify appropriate statistical techniques for business data analysis.	K1
CO2	relate statistical approaches to solve real time business problems	K2
CO3	classify and compare business data for decision making	K3
CO4	analyze and interpret the relationship between variables	K4
CO5	evaluate the effectiveness of statistical tools in solving business problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Descriptive Statistics 1.1 Data Types – Univariate Summaries	K1- K2	1	1-2
	1.2 Multivariate Summaries - Karl Pearson's Co-efficient of Correlation	K1- K5	5	1-5
	1.3 Partial Correlation of First Order and Second Order Co-efficient Co- efficient of Multiple Correlations		4	
2	Test of Hypothesis 2.1 Procedure for Testing Hypothesis	K1-K2	1	1-2
	2.2 Test of Significance	K3-K4	1	3-4
	2.3 Parametric and Non-Parametric Approaches	K1-K2	1	1-2
	2.4 Test on Single Parametric Value – z Test, t Test	K3-K5	5	3-5
	2.5 Test for Difference of Two Parametric Values		5	
	2.6 Variance Ratio Test 2.6.1 One-way Classification Model – One-way ANOVA	K1-K5	1	1-5
	2.6.2 Two-way Classification Model – Two-way ANOVA		6	
3	Categorical data and Chi-square test 3.1 Introduction to Categorical Data	K1-K2	1	1-2
	3.2 Meaning and Conditions for Applying Chi-Square test		1	
	3.3 Application of Chi Square Test - Test of Goodness of Fit and Test of Independence – Yates Correction	K1-K5	8	1-5
4	Regression 4.1 Regression – Meaning and Definition, Comparison Between Correlation and Regression	K1-K2	1	1-2
	4.2 Regression lines on X on Y and Y on X, Regression Equation, Multiple Regression	K1-K5	9	1-5

UNIT	CONTENT	CL	HRS	CO
5	Times Series Analysis			
	5.1 Meaning, Definition, utility, Components	K1-K2	1	1-2
	5.2 Method of Free Hand and Semi-Average	K1-K4	2	1-4
	5.3 Computation of Method of Least Square	K2-K5	6	2-5
	5.4 Computation of Seasonal Variations		6	

BOOKS FOR STUDY

Gupta, S.P., *Statistical Methods*, Sultan Chand and Sons Publishers. New Delhi (2021)
Pillai and Bhagavati, *Statistics Theory and Practice*, New Delhi, S. Chand Publication (2016)

BOOKS FOR REFERENCE

Sharma J.K, Business Statistics, Vikas Publishing (2019)
Kothari.C.R., Research Methodology Methods & Techniques, New Age International Publisher, New Delhi (2019)
Gupta, S. C. & Kapoor, V. C. Fundamentals of Mathematical Statistics, Sultan Chand & Sons, 2017
Gupta.S.C and Kapoor.V.C, *Fundamentals of Mathematical Statistics*, New Delhi, Sultan Chand, (2017)

JOURNALS

Open Journal of Statistics - SCIRP
Statistics Journal
Journal of Applied Statistics

WEB RESOURCES

<http://www.statsoft.com/textbook/basic-statistics>
<http://statistics-help-for-students.com/>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice - 1 theory and 2 Problem)
B	K2	10	2X5 =10 (out of 3 Questions -1 Theory and 2 problems)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question- Only Problems)
D	K5	10	1×14 = 14 (out of 2 questions - Only Problems)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice -3 problems and 2 theory)
B	K2	20	4 × 5 = 20 (out of 6 questions - 5 Problems and 1 theory)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions – Only Problems)
D	K5	30	2 × 15 = 30 (out of 3 questions - only Problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/AC/QT15												
I	Course Title : QUANTITATIVE TECHNIQUES FOR BUSINESS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	2	3	3	2	3	3	2	1	2	3
CO 2	2	3	2	2	3	3	3	3	3	3	1	2	3
CO 3	3	3	2	2	3	3	3	3	3	3	1	2	3
CO 4	2	3	2	1	2	3	3	3	2	2	2	1	2
CO 5	2	3	1	2	3	3	2	3	2	3	1	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.C.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23CO/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.C.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23CO/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage, 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group Discussions
Group Presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

FINANCIAL ACCOUNTING

CODE: 23CO/MC/FA23

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To enable students to understand and apply advanced adjustments relating to final accounts of a sole proprietor
- To acquaint students with accounting procedures of Hire Purchase and Installment system
- To familiarize students with branch and Departmental accounting
- To equip students with an understanding of accounting procedures relating to consignment.
- To provide the students with in-depth knowledge of shared decision making on all aspects of the partnership.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	remember basic Conceptual Framework for Preparation of Financial Statements	K1
CO2	estimate various computations required for Principles of Hire Purchase and Leasing	K2
CO3	determine the Profit or Loss of departments and branches	K3
CO4	prepare Accounting in the Books of Consignor and Consignee	K4
CO5	prepare Joint Venture and Sale or Return Accounting Procedures	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNITS	CONTENT	CL	HRS	CO
1	Conceptual Framework for Preparation of Financial Statements			
	1.1.1 Introduction to Accounting Standards and Indian Accounting Standards, Difference Between Accounting Standards and Indian Accounting Standards	K1-K2	1	1-2
	1.1.2 Accounting Standards – International Accounting Standards, Accounting Standards in India – Objectives, Process, Accounting Standards Board, Scope & Application of AS – 1,2,3,4,5,9,10,26 & 29 in Preparation of Financial Statements	K1-K5	3	1-5
	1.2 Preparation of Financial Statements of Sole Proprietor		3	
	1.2.1 Closing Entries and Adjustment Entries		3	
	1.2.2 Adjustments - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit Before and After Commission, Works Manager and General Manager Commission, writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax		5	
2	Hire Purchase			
	2.1 Principles of Hire Purchase and Leasing	K1-K3	1	1-3
	2.2 Application of Accounting Standard for Leasing – AS 19		1	
	2.3 Accounting Treatment in the Books of Hire vendor and Hirer	K1-K5	4	1-5
	2.4 Default and Repossession (Complete and Partial)		4	
3	Branch Accounts and Departmental Accounts			
	3.1 Branch Accounts	K1-K5	1	1-5
	3.1.1 Debtors System (Cost Price Method and Invoice Price Method)			
	3.1.2 Stock and Debtors System (Cost Price Method and Invoice Price Method)		2	
	3.1.3 Overview of Accounting for Independent Branches and Foreign Branches	K1-K3	1	1-3
	3.2 Departmental Accounts	K1-K5	2	1-5
	3.2.1 Meaning and Basis of Allocation of Expenses			

UNITS	CONTENT	CL	HRS	CO
	3.2.2 Stock Reserve and Inter-departmental transfers at Cost Price and Invoice Price		2	
	3.2.3 Preparation of Departmental Trading Account and Balance Sheet.		2	
4	Consignment Accounting			
	4.1 Meaning, Importance and Advantages	K1-K2	1	1-2
	4.2 Accounting in the Books of Consignor and Consignee	K1-K5	6	1-5
5	Joint Venture and Sale or Return			
	5.1 Joint Venture – Accounting Procedures, Joint Bank Account, Memorandum Joint Venture Account	K1-K5	5	1-5
	5.2 Meaning of Goods Sent on Approval or Return Basis and Accounting Treatment		5	

BOOKS FOR STUDY

T.S. Reddy and A.Murthy, *Financial Accounting*, Margham Publishers, Reprint 2021
R.L. Gupta and M.Radhasamy, *Advanced Accounting Vol I*, S. Chand Publishers, Revised Edition 2022

BOOKS FOR REFERENCE

Raj K Agrawal & Rupesh Agrawal, *Financial Accounting*, Taxmann's Publishers, 2018
S.N.Maheshwari, Suneel K Maheshwari, Sharad K Maheshwari, *Financial Accounting*, Vikas Publishing House, 2018.
M Hanif & A. Mukherjee, *Accounting I*, McGraw Hill Education, 2017.
Tulsian, P. C. *Accountancy*. S. Chand & Co., New Delhi, 2018

WEB SOURCES

www.icsi.org
www.elsevier.com

JOURNALS

Journal of Accounting
Indian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 ×5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/FA23												
II	Course Title: FINANCIAL ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	2	1	3	3	-	3	3
CO 2	3	3	3	-	1	2	1	2	3	1	2	3	2
CO 3	3	2	3	-	2	3	2	2	3	2	3	2	3
CO 4	2	1	2	2	1	2	2	1	3	2	3	3	-
CO 5	3	2	3	-	3	1	2	1	3	3	2	-	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE ETHICS AND GOVERNANCE

CODE:23CO/MC/CG23

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To enable students to understand the practices of corporate ethics and corporate governance
- To create an awareness on the corporate social responsibility of a business
- To familiarize students with emerging trends in good governance practices.
- To determine an ethical framework for sustainable business practices.
- To evaluate the legal and regulatory framework of corporate governance.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COS	DESCRIPTION	CL
CO1	understand the importance of business ethics	K1
CO2	identify unethical practices in marketing and advertising	K2
CO3	analyze the ethical issues in Finance	K3
CO4	explain the relevance of Corporate Governance and Corporate Social Responsibility.	K4
CO5	discuss the board functions for corporate governance	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	An Overview of Business Ethics 1.1 Definition and Concept of Ethics, Morals and Values; Ethics and Indian Ethos; Indian Ethos and Games	K1 - K4	2	1-4
	1.2 Business Ethics; Characteristics of Business Ethics; Need and Importance of Business Ethics; Sources of Business Ethics; Causes of Unethical Behavior and Ethical Abuses		3	
	1.2 Guidelines for developing Code of Ethics; Ethics Committee; Work ethics; Public Good		2	
	1.4 Ethical Dilemmas in Business, Right versus Right and Right versus Wrong Ethical Dilemma, Concepts like – Conflict of Interest, Self - Serving Bias, Moral Equilibrium		3	
2	Ethics in Management and Corporate Frauds 2.1 Impact of Ethics on Competitive Business Strategy	K1- K4	2	1-4
	2.2 Role of International Trade and Business Organizations in developing Business Ethics		4	
	2.3 Ethical Issues in the Indian Context and Case Studies with special emphasis on corporate frauds: Accounting Frauds Bank Frauds Employee Frauds		6	
	2.4 Preventive Measures adopted to Curb Frauds		3	
3	3.1 Conceptual Framework of Corporate Governance 3.1.1 Meaning and features of Corporate Governance	K1 - K5	1	1-5
	3.1.2 Evolution of Corporate governance; Principles of Corporate Governance		2	
	3.1.3 Importance of Corporate Governance and Elements of Good Corporate Governance.		2	
	3.2 Levels of Governance Structure 3.2.1 Corporate governance and role, responsibilities and powers - Board of Directors, Corporate		3	

UNIT	CONTENT	CL	HRS	CO
	3.2.2 Management Committee and Divisional Management Committee.		2	
4	Corporate Governance 4.1 Meaning, Principles and Four Pillars of Corporate Governance	K1- K5	2	1- 5
	4.2 Evolution of the Concept of Corporate Governance– Committees Report		3	
	4.3 Board Committees and their Functions– Role of Independent Directors and Women Directors		3	
	4.4 Mandatory Reporting Requirements under the Companies Act 2013, read with Capital Market Regulations		2	
5	Corporate Social Responsibility 5.1 Meaning and Nature	K1 - K5	1	1- 5
	5.2 Importance and Legal Requirements – Reporting Requirement		2	
	5.3 Responsibilities towards Stakeholders – Shareholders, Employees, Consumers and Society		2	
	5.4 Case Studies in CSR		2	

BOOKS FOR STUDY

Fernando,A.C. *Corporate Governance – Principles, Policies & Practice*, Noida: Pearson, 2018

Joan R. Boatright. *Ethics and the Conduct of Business*, Noida: Pearson, 2021

BOOKS FOR REFERENCES

Andrew Crane Dirk Matten. *Business Ethics*. New Delhi: Oxford University Press, 2015

Dr. K. Nirmala, KarunakaraReaddy : *Business Ethics and Corporate Governance*, Himalaya Publishing House, 2023

Bhanu Murthy, K. V. and Usha Krishna, *Politics Ethics and Social Responsibilities of Business*. New Delhi: Pearson Education, 2015

Christine, A Mallin. *Corporate Governance (Indian Edition)*.New Delhi: Oxford University Press, 2016

Kshama V. Kaushik, *CSR in India - Steering Business Towards Social Change*, New Delhi: Lexis Nexis, 2017

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www.hbr.org

JOURNALS

International Journal of Management Reviews
International Journal on Corporate Strategy and Social Responsibility
SSRN – E Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/CG23												
II	Course Title: CORPORATE ETHICS AND GOVERNANCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	2	3	3	2	-	2	3
CO 2	3	3	2	2	2	3	2	2	3	3	-	2	2
CO 3	3	3	3	2	2	3	3	3	3	3	2	3	3
CO 4	3	3	3	1	3	3	3	2	2	2	2	2	3
CO 5	3	2	3	3	3	3	3	2	2	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.C.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23CO/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group Discussions

Group Presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A. / B.Sc. / B.Com. / B.B.A. / B.S.W. / B.C.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment:**

Two Classroom Tasks

Total Marks:50

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

ECONOMIC AND COMMERCIAL LAW

CODE: 23CO/MC/EC34

CREDITS:4

LTP:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable students to understand the basic provisions of commercial law
- To acquaint students with the legal aspects of business.
- To Provide an Understanding on the rules and regulations associated with any business at both corporate and Individual level.
- To comprehend the right laws of customers which can be enforced.
- To familiarize students with practical applications of law with the help of commercial law.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand and relate the essentials of Economic Laws	K1
CO2	explain the registration procedure for the various acts.	K2
CO3	apply the provision of Law relating to business.	K3
CO4	interpret the legal provisions for business transactions.	K4
CO5	evaluate practical case laws relating to economic and commercial laws.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Indian Contracts Act 1872	K1-K3		
	1.1 Meaning and Types of Contract		2	1-5
	1.2 Essential Elements of a Valid Contract- Offer, Acceptance, Consideration, Capacity of parties, Free Consent, Legality of Object.		5	1-5
	1.3 Performance of Contract		3	
	1.4 Discharge of Contract		7	
	1.5 Remedies for Breach of Contract		3	

UNIT	CONTENT	CL	HRS	CO
2	Special Contracts Act 2.1 Contract of Indemnity and Guarantee – Difference between Indemnity and Guarantee	K1-K3	2	1-3
	2.2 Rights, Liabilities and Discharge of Surety	K1-K5	5	1-5
	2.3 Rights and Duties of Bailor and Bailee, Pledger and Pledgee – Termination of Bailment		7	
3	The Sale of goods Act, 1930 3.1 Essentials of Contract of sale	K1-K4	2	1-4
	3.2 Conditions and Warranties-Express and Implied condition and warranties.	K1-K3	2	1-3
	3.3 Transfer of Property		3	
	3.4 Performance of Contract-Delivery of Goods-Rights and Duties of Buyer		3	
	3.5 Rights of an Unpaid Seller –Meaning Remedies for breach of contract of sale.		3	
4	Limited Liability Partnership Act, 2021 4.1 Features of LLP, Difference Between LLP & Partnership – LLP vs. Company –Partners and Designated Partners	K1-K3	4	1-3
	4.2 Incorporation Document Incorporation by Registration – Partners and Their Relationship	K1-K5	4	1-5
5	Foreign Exchange Management Act, 1999 5.1 Introduction, Concept ,Objectives	K1-K4	2	1-5
	5.2 Structure and Overall Schemes of FEMA;		4	
	5.3 Rules and Regulations framed by RBI under FEMA;		4	

BOOKS FOR STUDY

Kapoor N.D, *Business Law*, New Delhi, Sultan Chand & Sons, 2021

Kuchhal M.C & Vivek Kuchhal, *Business Law*, 7th Edition New Delhi: Vikas Publishing House Pvt. Ltd., 2021

BOOKS FOR REFERENCE

Rohini Aggarawal :*Mercantile and Commercial Laws*, Taxmann Publications Private Limited, 2022

Kapoor N.D, *Mercantile Law*, Sultan Chand & Sons, 2020

R. S. N. Pillai & Bhagirathi, *Mercantile Law*, Sultan Chand & Sons, 2020

P. C. Tulsian, *Business Law*, Tata McGraw-Hill, Latest Edition, 2020

V. K. Jain & Shashank S, *Business Laws*, Taxmann Publication, 2020

C. Mehanathan, *Law on Prevention of Money Laundering in India* ,2017
The Consumer Protection Act, 2019, Universal's- LexisNexis, January 2023

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<http://www.amritt.com/services/india-business-consulting/business-laws-and-regulations-inindia/>
http://www.lawnotes.in/Indian_Contract_Act,_1872
<https://www.icsi.edu/media/webmodules/Economic%20Business%20and%20Commercial%20Laws.pdf>
<https://www.indiacode.nic.in/bitstream/123456789/2036/1/A2003-15.pdf>

JOURNALS

Indian Business Law Journal
 Andhra Pradesh Law Journal
 Calcutta Law Journal
 Madras Law Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23CO/MC/EC34												
III	Course Title: ECONOMIC AND COMMERCIAL LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	3	3	3	3	3	3	2	2	3
CO 2	2	3	2	2	3	3	3	2	3	3	3	3	2
CO 3	2	3	2	1	2	3	3	3	2	2	3	3	3
CO 4	2	3	2	1	2	3	3	3	-	2	3	3	2
CO 5	-	3	2	2	2	3	2	2	1	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

BANKING AND FINANCIAL SERVICES

CODE:23CO/MC/BF34

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable students to understand the concepts in banking and financial services
- To expose students to the latest trends and developments in e-banking.
- To provide an understanding of the investment options and regulating authority.
- To provide an understanding on the Fee based and Fund based financial sector
- To facilitate students to recognize different patterns of investment in mutual funds.

COURSE LEARNING OUTCOMES

On successful completion of the course. the students will be able to

COs	DESCRIPTION	CL
CO1	understand Banking Practices and services.	K1
CO2	appreciate the venture capital ecosystem in India	K2
CO3	differentiate between fee based and fund based financial services	K3
CO4	comprehend recent developments in banking sector	K4
CO5	adapt to the recent trends in Banking and Financial services	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Banking 1.1 Meaning, Definition and Developments of Commercial Banking.	K1-2	2	1-2
	1.2 Banking Functions and Services.	K1-3	2	1-3
	Banking Practices – Opening and Closing of Bank Accounts, Document relating to Banking Transactions.	K1-5	2	1-5

UNIT	CONTENT	CL	HRS	CO
	1.2 Negotiable Instruments - Cheque, Promissory Note and Bills of Exchange.		4	
	1.3 Loans – Types, Procedure, Documents and Repayment.		5	
2	Developments in Banking 2.1 E-Banking – Meaning, Importance, Merits and Demerits.	K1-3	2	1-3
	2.2 Internet Banking, Mobile Banking, Tele- Banking, Rural Banking and Retail Banking.		3	
	2.3 Debit card, Credit card, ATM Card, Digital Wallet and Smart card		2	
	2.4 Electronic Payment System – Electronic Clearing Service and Electronic Fund Transfer.	K1-5	3	1-5
3	Introduction to Financial Services 3.1 Meaning, Functions and Importance of Financial Services in India.	K1-2	3	1-2
	3.2 Types of Financial services – Fund Based and Fee- Based.	K1-5	4	1-5
	3.3 Recent Developments in the Financial Services		3	
4	Fee based Financial Services 4.1 Merchant Banking - Meaning, Definition, Functions of a Merchant Banker and Scope of Merchant Banking in India.	K1-5	5	1-5
	4.2 Credit rating services – Meaning and Need for Rating with Special Reference to ICRA and CRISIL		5	
	4.3 Underwriting – Types – Role and Responsibilities of Underwriters.		5	
5	Allied Financial Services 5.1 Mutual fund – Meaning, Types and Criteria for Selection of Mutual fund.	K1-5	3	1-5
	5.2 Factoring - Definition, Importance and Types.		4	
	5.3 Leasing – Meaning, Importance and Types.		4	
	5.4 Venture Capital Financing – Meaning, Importance and Stages.		4	

BOOKS FOR STUDY

Gurusamy. S, *Financial Services*, Tata McGraw Hill Education Pvt. Ltd, New Delhi, 2017
Sundaram K.P.M. and Varshney P. N., *Banking Theory Law and Practice*, Sultan Chand & Sons, New Delhi, 2019.

BOOKS FOR REFERENCE

Khan M.Y., *Financial Services*, Tata Mc Graw Hill Publishing Pvt. Ltd, New Delhi, 2019
Machiraju H. R, *Indian Financial System*, Vikas Publishing House Pvt. Ltd, Chennai, 2019.
Dr. Gurusamy S, *Banking Theory Law and Practice*, Vijay Nicole Imprints Pvt. Ltd, Chennai, 2017.
Varshney P.N., *Banking Law and Practice*, Sultan Chand & Sons, New Delhi, 2017.
E. Gordon and K. Natarajan, *Banking Theory, Law And Practice*, Himalaya Publishing House, Mumbai, 2016

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www.bankingfinance.in/list-websites-banks-india.html
www.india-financing.com/indo1.html
www.languages.ind.in/factoring.htm

JOURNALS

Asian Journal of Research in Banking and Finance
Journal of Banking, Information Technology and Management
Journal of Bank Management
Journal of Internet Banking and Commerce

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/BF34												
III	Course Title: BANKING AND FINANCIAL SERVICES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	-	2	1	-	1	3	1	-	1	3
CO 2	2	3	3	1	2	1	-	-	3	2	1	1	2
CO 3	3	3	2	1	3	3	-	-	2	3	1	2	-
CO 4	2	3	3	1	3	3	2	3	3	3	2	1	2
CO 5	3	3	3	-	3	2	1	3	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 60086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

COMPANY LAW

CODE:23CO/MC/CL34

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To provide an understanding of the legal framework that governs the business entity.
- To familiarize students with the documents required for registration and operation of a company
- To expose students to the process and procedure involved in the formation and management of a company
- To equip the students to draft essential corporate legal documents.
- To acquaint students with the provisions relating to management and administration of a company

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic provisions of company law.	K1
CO2	interpret the provisions of Company's Act in the working of a corporate.	K2
CO3	develop legal documents related to companies	K3
CO4	analyze and apply the legal requirements for forming and registering a corporation.	K4
CO5	assess the practical application of the provisions of Company's Act through case laws	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Company	K1-K4		1-4
	1.1 Introduction-Definition and Characteristics of a Company		2	
	1.1.1 Types of Companies		2	
	1.1.2 Lifting of Corporate veil		2	
	1.2 Formation of Company	K1-K5	2	1-5
	1.2.1 Promoters – Legal position, Re-Classification		2	
	1.2.2 Pre-incorporation		1	
	1.2.3 Incorporation of Company – Commencement of Business		1	
	1.2.4 Memorandum of Association and Articles of Association		5	
2	Raising of Capital	K1-K5	5	1-5
	2.1 Prospectus – Definition, Contents, Misstatements in Prospectus and Consequences			
	2.2 Share - Meaning, Nature and types of shares		2	
	2.2.1 Share Capital - Issue, Allotment and Forfeiture		3	
	2.2.2 Alteration of Share Capital		3	
	2.2.3 Share Certificate, Demat, Membership, Transfer and Transmission of Shares, Nomination		3	
	2.3 Debentures – Nature and Classes of Debentures		2	
3	Management and Administration	K1-K2		1-2
	3.1 Board of Directors – Qualification, Disqualification Appointment, Resignation, Vacation of Office, Removal, Powers, Duties and Liabilities		2	
	3.2 Classification of Directors-Women directors, Independent director and Small shareholder's director	K1-K4	3	1-4
	3.3 Key Managerial Personnel – Appointment and Remuneration		2	
	3.4 Meetings - Requisites for a valid meeting – Board and Committee Meetings – Impact of SS1	K1-K5	2	1-5
	3.5 Resolutions – Types		2	

UNIT	CONTENT	CL	HRS	CO
4	Shareholders' Meetings and Dividend Declaration 4.1 Meeting-Annual General Meeting, Extraordinary General Meeting – Impact of SS2	K1-K5	4	1-5
	4.2 Types Dividends – Provisions Relating to Declaration and Payment of Dividend Transfer of Un-claimed Dividend to Investor Education and Protection Fund		3	
5	Winding up 5.1 Definition and Purpose of Winding up	K1-K4	3	1-4
	5.2 Compulsory Winding up		3	
	5.3 Voluntary Winding up		3	
	5.4 Insolvency Bankruptcy Code – An Overview		3	

BOOKS FOR STUDY

Kapoor N.D., *Elements of Company Law*, Sultan Chand, New Delhi, 2019
A Compendium of Companies Act 2013 along with Rules, Taxmann Publications, New Delhi, 2019

BOOKS FOR REFERENCE

Bharat, Manual of Companies Act, Corporate Laws and SEBI Guidelines, Law Publishers, 39th edition, 2023
G K Kapoor Sanjay Dhamija, *A Comprehensive Text Book on Companies Act 2019*
Taxmann's Company law and Practice, New Delhi, 2022

WEB SOURCES

<https://www.business.gov.in>
<https://www.cdslindia.com>
<https://www.geebeevee.org>
[https:// www.mca.gov.in](https://www.mca.gov.in)

JOURNALS

India Business Law
Journal India Law Journal
Corporate Law Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/CL34												
III	Course Title: COMPANY LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	-	1	1	1	1	3	2	1	1	1
CO 2	3	2	2	2	2	2	1	1	3	3	3	2	2
CO 3	3	3	3	3	3	3	3	1	3	3	3	2	3
CO 4	3	3	3	2	3	3	3	1	3	3	3	2	3
CO 5	3	3	3	-	3	3	3	1	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

COMPLIANCE AUDIT

CODE: 23CO/MC/CA33

CREDITS:3

LTP:3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to acquire a comprehensive understanding of auditing principles and techniques.
- To provide students with an understanding of the procedures for assessing the corporate governance
- To familiarize students with techniques for evaluating and improving internal control systems.
- To acquaint students with auditing standards and technologies in an ever-changing business landscape.
- To assist the students in developing critical thinking and analytical skills for assessing financial information

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the concept, types & frame a checklist for auditing	K1
CO2	classify the methods of auditing	K2
CO3	identify auditing practices to different types of business entities	K3
CO4	determine the appropriate audit report for a given audit situation	K4
CO5	discuss the form, content and importance of auditors' reports provided at the end of the audit	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Auditing Concepts 1.1.1 Nature, Scope and Significance, Basic Principles Governing an Audit	K1-K5	2	1-5
	1.1.2 Overview of Auditing and Assurance Standards		2	
	1.2 Auditing Types 1.2.1 Company Audit - Statutory, Internal, Branch, Special, Cost, Secretarial		2	
	1.2.2 Applicability of Audit under other Laws – Tax, GST		2	
	1.2.3 Internal Audit Types – Proprietary Audit, Efficiency Audit		2	
	1.2.4 Nature, Scope, Techniques of Internal Audit, Functions, Responsibilities of Internal Auditors		2	
2	Internal Control and Review 2.1 Internal Control	K1-K5	1	1-5
	2.1.1 Internal Control- Nature, Scope and Elements, Distinction between Internal Control, Internal Check and Internal Audit		2	
	2.1.2 Techniques of Internal Control System, Flowcharts		2	
	2.1.3 Steps for Internal Control and Audit Evaluation		2	
	2.2 Review of Internal Control		1	
3	Vouching and Verification 3.1 Meaning and significance, Vouching of Cash and Credit Transactions	K1-K5	6	1-5
	3.2 Verification of Assets and Liabilities		6	
4	Audit Engagement and Documentation 4.1 Audit Engagement and Documentation-Audit Procedures, Plan and Program		4	

UNIT	CONTENT	CL	HRS	CO
	4.2 Audit Testing – Need for Sampling and Various Approaches	K1-K5	2	1-5
	4.3 Audit Evidence - Working Papers and Files		2	
	4.4 Sampling- Test Check and Techniques		2	
5	Computer Assisted Audit Techniques (CAAT) 5.1 Need, Importance and Factors to be considered in using CAAT	K1-K5	2	1-5
	5.2 Methodology and Steps in the Application of CAAT		2	
	5.3 Audit Tests using CAAT - Audit Documentation and Evidences		2	
	5.4 Application of CAAT		4	

BOOKS FOR STUDY

Tandon B.N., *Practical Auditing*, New Delhi, S.Chand Publishers, 2017
Clifford Gomez, *Auditing and Assurance: Theory and Practice*, Prentice Hall India Learning Private Limited, 2017

BOOKS FOR REFERENCE

Craig Cochran, *Internal Auditing in Plain English: A Simple Guide to Super Effective ISO Audits*, Paton Professional, California, 2017
Jagdish Prakash, *Auditing Principles, Practice and Problems*, Kalyani Publishers, 2015
Dinkar Pagare, *Principles & Practice of Auditing*, New Delhi, Sultan Chand & Sons, 2011
Spicer & Pegler, *Auditing*, New Delhi, MacMillan Publication, 2000

WEB SOURCES

<http://Onlinelibrary.wiley.com>
www.audit-International.com

JOURNALS

Journal of International Accounting, Auditing and Taxation
International Journal of Auditing – Wiley Online Library

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/CA33												
III	Course Title: COMPLIANCE AUDIT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	-	3	3	2	-	3	3	3	3	-
CO 2	3	2	3	-	2	2	3	2	3	2	3	3	3
CO 3	3	2	3	1	2	-	2	3	3	3	3	3	3
CO 4	3	3	3	3	1	2	3	2	3	3	3	3	3
CO 5	3	2	3	3	1	3	3	3	3	3	3	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

COMPUTER TOOLS FOR BUSINESS DATA ANALYSIS PRACTICAL

CODE: 23CO/AC/CB35

CREDITS:5

L T P: 1 1 4

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enable students to understand the use of computer software in performing financial and statistical analysis
- To familiarize with the use of MS Word, MS Excel and MS Powerpoint
- To expose students to the Business evaluation techniques using MS Excel.
- To acquaint students with the use of MS Excel for financial statements analysis.
- To equip students with presentation skills

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand how to use Word, Excel, and PowerPoint in a variety of professional, educational, and personal situations.	K1,K2
CO2	experiment with simple design and development tasks for business using Word, Excel and PowerPoint	K3
CO3	analyse and Simplify the functions of Office programs.	K4
CO4	estimate and Evaluate financial data analysis and generate reports for making decisions.	K5
CO5	independently create documents and presentations using MS office Package	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Working with Word Document- Opening an Existing Document, Creating a New Document and Saving the Document	K1-K5	6	1-5
	1.2 Selecting, Editing, Finding and Replacing Text		4	
	1.2 Formatting Text, Bullets and Numbering, Tabs, Paragraph Formatting, Page Setup		4	
2	Financial Statement Analysis and Business Planning using Excel 2.1 Techniques of Financial Statement Analysis	K1-K3	2	1-3
	2.1.1 Comparative Statements	K1-K4	3	1-4
	2.1.2 Common Size Statements		3	
	2.1.3 Trend Percentages		2	
	2.2 Preparation of Budgets – Production, Sales, Cash & Flexible		6	
3	Business Evaluation Techniques using Excel 3.1 Time Value of Money	K1-K5	2	1-5
	3.2 Future and Present Value of Money		4	
	3.3 Future and Present Value of Annuity		4	
	3.4 Evaluation Techniques – Pay Back Period, NPV and IRR methods		3	
4	Statistical Analysis using Excel 4.1 Measures of Central Tendency & Dispersion – Mean, Median, Mode & Standard deviation	K1-K4	6	1-4
	4.2 Correlation Analysis – Correlation Co-efficient		4	
	4.3 Regression Analysis – Regression Equations		4	
	4.4 Time series analysis – Moving Averages, Method of Least Squares		6	
5	Presentation 5.1 Introduction	K1-K5	3	1-5
	5.2 Slide Design and Layout		4	
	5.3 Inserting Pictures, Charts and Tables		4	
	5.4 Setting up a Presentation – Custom animation		4	

BOOKS FOR STUDY

Deepak Jain, *Computer Applications in Business*, Kolkatta :Lawpoint Publications, 2017

Bodhanwala, J. Ruzbeh, *Understanding and Analysing Balance Sheets using Excel Worksheet*, Prentice Hall, 2018

BOOKS FOR REFERENCE

Melissa J. Rowling, *Microsoft Office 365 for Beginners*, 2023

Microsoft Excel, *Data analysis and business modeling*, Wayne L. Winston, Microsoft 2016

Frye, C. D. (n.d.). *Step by Step (Office 2021 and Microsoft 365)*, New Delhi: PHI, 2022

WEB SOURCES

<http://www.ecommerce-digest.com/online-academic-journals.html>

<http://www.openlearningworld.com/books/>

JOURNALS

Indian Journal of Computer Application

Journal of Statistical Software

Journal of Modern Applied Statistical Methods

PATTERN OF ASSESSMENT -PRACTICALS

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1,K2 (10)	2 x 5 = 10	1 K1 question 1 K2 question	1 K1 question 1 K2 question
B	K3,K4 (20)	2x 10 = 20	1 K3 question 1 K4 question	2 K3 question (Internal Choice) 2 K4 question (Internal Choice)
C	K5 (20)	1x20=20	1 K5 question	2 K5 question
	Total	50	5	8

Other Components: Total Marks: 50

Assignment, quiz, open book test, group discussion, MCQ.

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1,K2 (20)	$4 \times 5 = 20$	2 K1 questions 2 K2 questions	2 K1 questions 2 K2 questions
B	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	3 K3 questions 3 K4 questions
C	K5 (40)	$2 \times 20 = 30$	2 K5 questions	3 K5 questions
	Total	100	10	13

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/AC/CB35												
III	Course Title: COMPUTER TOOLS FOR BUSINESS DATA ANALYSIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	3	3	2	2	3	2	2	2
CO 2	3	2	2	2	2	3	3	3	2	3	2	2	2
CO 3	-	3	3	2	2	3	2	2	-	3	2	2	2
CO 4	1	3	2	2	2	3	2	2	1	1	3	2	2
CO 5	2	3	2	2	3	3	3	3	1	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO FINANCIAL MANAGEMENT

CODE:23CO/MC/IF44

CREDIT: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students an in-depth knowledge in managing finance
- To facilitate students in understanding the techniques for raising funds
- To expose students to the methods used in making financial, investment and dividend decisions
- To enable students to understand fundamental principles of financial management to make informed business decisions.
- To assist students in comprehending financial concepts while promoting efficient allocation of resources

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the key aspects of Financial Management.	K1
CO2	understand various concepts, components of Financial management for proper cost allocation.	K2
CO3	anticipate the need and level of Capital investment planning	K3
CO4	measure the various leverages of the organization.	K4
CO5	interpret the capital requirements of the organization.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning and Importance of Financial Management	K1-K2	1	1-2
	1.2 Objectives of Financial Management -Profit Maximization and Wealth Maximization	K1-K4	3	1-4

UNIT	CONTENT	CL	HRS	CO
	1.3 Time Value of Money- Meaning, Definition, Compound and Discount Techniques	K1-K5	6	1-5
2	Cost of Capital 2.1. Meaning and Significance	K1-K3	4	1-3
	2.2 Components of Cost of Capital – Computation	K1-K5	6	1-5
3	3.1 Capital Structure 3.1.1 Meaning and Significance	K1 – K2	2	1-2
	3.1.2 Theories of Capital Structure – Net Income Approach, Net Operating Income Approach, Traditional Approach, Modigliani & Miller Approach	K1 – K5	5	1-5
	3.2 Leverages 3.2.1 Meaning of Leverages	K1 –K2	2	1 -2
	3.2.2 Types of Leverages Operating, Financial and Combined Leverage, Risk and Leverage	K1 – K5	6	1-5
4	Capital Budgeting 4.1 Meaning, Importance and Need	K1 – K3	3	1-3
	4.2 Capital Budgeting Techniques 4.2.1 Pay Back Period Method, Accounting Rate of Return	K1 –K5	6	1-5
	4.2.2 Discount Cash Flow Method - Net Present Value, Internal Rate of Return and Profitability Index		6	
5	Working Capital 5.1 Meaning and Significance	K1- K3	3	1-3
	5.2 Types of Working Capital, Working Capital Cycle	K1- K5	6	1-5
	5.3 Determinants and Estimation of Working Capital		6	

BOOKS FOR STUDY

Khan, M.Y & Jain, P.K.: *Financial Management*; New Delhi, Tata McGraw Hill, 2018
 Pandey, I. M.: *Financial Management*; New Delhi, Pearson's Publishing House, 2021

BOOKS FOR REFERENCE

Kishore Ravi, M: *Financial Management*; New Delhi, Taxman, 2022

Chandra, Prasana: *Financial Management*; New Delhi, Tata McGraw Hill, 2019

Brealey and Meyers: *Principles of Corporate Finance*: Tata McGraw Hill, 2018

Murthy.A, *Financial Management*, Chennai, Margham Publications, 2017

WEB SOURCES

www.icsi.edu.in www.icaai.edu.in

www.investopedia.com

JOURNALS

Journals of Financial Management

Journals of risk and Financial Management

International journals of Financial Management

Journal of Accounting and Financial Management Research

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 =10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 =40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
To Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/IF44												
IV	Course Title: INTRODUCTION TO FINANCIAL MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	-	2	1	2	2	2	1	1	2	3
CO 2	3	3	3	1	2	2	2	2	3	2	2	2	3
CO 3	3	3	3	1	2	2	1	2	3	3	3	3	3
CO 4	2	2	2	-	3	3	2	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023–2024)

CAPITAL MARKETS

CODE:23CO/MC/CM44

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to acquire comprehensive knowledge on concepts of capital markets
- To introduce students to the various instruments used for trading in capital markets
- To equip knowledge on how to raise finance for an organization in the secondary market
- To provide an understanding to the students on the regulatory framework of securities markets
- To develop skill and competence of students in the area of stock trading

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the concept of Capital markets and its regulatory framework	K1
CO2	identify the various capital market instruments in stock exchange	K2
CO3	analyze the different methods adopted by companies to market securities	K3
CO4	apply and evaluate the trading mechanism of securities in stock exchange	K4
CO5	acquiring the skills in investing and trading in stocks	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Overview of Capital Market	K1-K2		1-2
	1.1 Meaning and Definition		2	
	1.2. Function, Importance and Features		4	
	1.3. Indian Capital Market		2	
	1.4. Overview of Depository System in India		2	
2	Capital Market instrument	K1- K3		1-3
	2.1 Capital Market Instruments: Equity, Debentures, Preference Shares, Sweat Equity, Non-Voting Shares, Share Warrants		5	
	2.2 Derivatives		4	
	2.3 Rating and Grading of Instruments - Concept, Scope and Significance	K1- K2	3	1-2
3	Securities Market Intermediaries and Regulatory Framework	K1-K4		1 - 4
	3.1. Primary Market – Meaning, Definition, Methods and Intermediaries		5	
	3.2. Secondary Market Intermediaries – Functions and Types	K1-K3	6	1-3
	3.3. Role played by Intermediaries - Merchant Bankers, Stock Brokers, Syndicate Members, Portfolio Managers, Foreign Institutional Investors, Custodians, Venture Capitalists		4	
4	Stock Exchange	K1-K2		1 - 2
	4.1. Functions and Significance		2	
	4.2. Operations and Trading Mechanism	K1-K5	4	1-5
	4.3. Settlement of Securities, Surveillance Mechanism		4	
	4.4. SME Exchange		4	
5	Issue and Listing of Securities	K1- K5		1 - 5
	5.1 .Listing of Securities and Delisting of Securities		3	
	5.2. Issue of Capital and Disclosure Requirements (ICDR), Listing Obligations and Disclosure Requirements (LODR)	K1-K4	4	1-4
	5.3. Procedure for Issue of Various Types of Shares and Debentures		2	
	5.4. Employee Stock Option Scheme and Employee Stock Purchase Scheme		3	
	5.5. Investor Protection in India		2	

BOOKS FOR STUDY

Guruswamy.S, *Financial Institutions and Markets*, New Delhi, Tata McGraw hills, 2016
Gordon and E. Natrajan, *Capital Markets*, Mumbai, Himalaya Publications 2017

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Shashi K. Gupta, *Financial institutions and Markets*, Ludhiana, Kalyani Publisher, 2018
M.Y. Khan, *Indian Financial Systems*, New Delhi, Tata McGraw Hills, 2019
Sapna Nibasaiya, *Indian Financial System*, New Delhi, Vikas Publishing House, 2014
Amit Vohra, *Capital Markets and Securities Law*, New Delhi, Lexis Nexis, 2016

WEB SOURCES

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JOURNALS

Journal of Finance _
Emerald Journal of Capital Markets Studies

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/CM44												
IV	Course Title: CAPITAL MARKETS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	-	-	2	3	1	2	3	3	2	3	2	1
CO 2	2	2	2	3	3	1	3	3	3	3	2	-	2
CO 3	2	3	1	2	3	2	2	3	3	3	2	1	3
CO 4	2	3	2	2	3	3	2	3	3	3	3	2	3
CO 5	2	3	-	2	3	3	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

INDUSTRIAL LAW

CODE: 23CO/MC/IL44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students an in-depth knowledge on provisions of labour legislations
- To assist students in comprehending the fundamental principles and concepts of labor and industrial laws.
- To acquaint students with the concept of industrial relations aspects prevailing in industries
- To familiarize the students with occupational hazards and risk associated with the job
- To expose in interpreting and applying labor legislation to real-world employment situations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	demonstrate an understanding of the legal aspects of the structure, history and values underlying labour laws governing organizational operations	K1
CO2	identify situations that affect employers and employees	K2
CO3	examine the important causes and impact of industrial laws	K3
CO4	assess the labour problems in the industry and the law in this regard	K4
CO5	evaluate the functioning of labour laws related to Industry	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Factories Act, 1948 1.1 Importance, Definitions, Authorities under the Factories Act	K1-K3	3	1-3
	1.2 Provisions of the Factories Act Relating to Health, Safety and Welfare of the Workers	K1-K4	4	1-4
	1.3 Working Hours of Adults, Employment of Young Persons, Annual Leave with Wages	K1-K3	3	1-3
	1.4 Occupier – Roles and Responsibilities		2	
2	Industrial Disputes Act 1947 2.1 Meaning, Definition, Authorities under the Industrial Disputes Act – Their Duties and Rights	K1-K4	5	1-4
	2.2 Awards, Settlements	K1-K5	5	1-5
	2.3 Strikes and Lockouts, Lay off and Retrenchment	K1-K4	5	1-4
3	Trade Unions Act, 1926 3.1 Definition and Registration of Trade Unions	K1-K3	7	1-3
	3.2 Rights and Liabilities of Registered Trade Unions	K1-K4	8	1-4
4	Workmen Compensation Act, 1923 4.1 Definitions - Dependent, Employer, Partial and Total Disablement, Workmen, Injury, Occupational Disease, Accident	K1-K3	4	1-3
	4.2 Employer's Liability for Compensation, Amount of Compensation	K1-K5	4	1-5
	4.3 Contracting, Commissioner, Offences and Penalties	K1-K4	3	1-4
5	Payment of Wages Act ,1936 5.1 Definitions, Wages, Responsibility for Payment of Wages	K1-K3	4	1-3
	5.2 Fixation of Wage Period, Time of Payment of Wages, Mode of Payment	K1-K4	4	1-4
	5.3 Deductions from Wages, Fines.		4	

BOOKS FOR STUDY

Kapoor, ND, *Elements of Mercantile Law*, New Delhi: Sultan Chand & Sons, 2020
Shreenivasan,M R (Dr.),*Industrial Relations &Labour legislations*, Chennai: Margham Publications, 2018

BOOKS FOR REFERENCE

Malik, K.L., *Industrial Laws and Labour Laws*, Lucknow: Eastern Book Company, 2018
Niland J R,etal, *The future of Industrial Relations*, New Delhi: Sage Publications, 2017
Srivastava, S.C., *Industrial Relations &Labour Laws*, New Delhi: Vikas publishing House,2016
Sharma, J.P., *Simplified Approach to Labour Laws*, New Delhi: Bharat Law House (P) Ltd.,2018

WEB SOURCES

<https://labour.gov.in/industrial-relations>

<http://www.mondaq.com/india/x/631074/employee+rights+labour+relations/A+Brief+Guid+Lab+our+And+Industrial+Laws+Of+India>

JOURNALS

Industrial Law Journal

Journal of LabourAnd Industrial Law

International Journal Of Comparative Labour Law And Industrial Relations

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/IL44												
IV	Course Title: INDUSTRIAL LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	2	2	2	3	3	3	2	3	3	3
CO 2	3	1	2	2	2	2	3	3	3	2	3	2	2
CO 3	3	3	2	2	2	2	3	3	3	3	3	2	2
CO 4	2	3	2	2	3	3	3	3	3	2	3	3	3
CO 5	-	3	2	2	3	3	3	3	1	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

INTELLECTUAL PROPERTY RIGHTS

CODE: 23CO/MC/IP43

CREDITS:3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To equip the students with various theories, approaches and functional mechanism of IPR
- To familiarize the students on jurisprudential analysis of IPR regime and its enforcement
- To acquaint the students with protection mechanism of Intellectual Property Rights
- To expose the students to National and International perspectives of legal regime of IPR protection
- To focus upon the Patents, Trademarks, Copyright, GI and Design under Indian legal system

COURSE LEARNING OUTCOMES

On successful completion of the course. The students will be able to

COs	DESCRIPTION	CL
CO1	relate the concepts and principles of Intellectual Property Rights in the real world	K1
CO2	explain the legal provisions relating to Intellectual Property Rights	K2
CO3	make use of the procedures involved in intellectual property rights laws and apply them appropriately	K3
CO4	examine various situations with the help of case laws covered in intellectual property rights.	K4
CO5	assess and determine various provisions that are required under intellectual property rights laws	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	INTRODUCTION TO IPR 1.1 Meaning, nature and basic concepts of intellectual property.	K1-K2	3	1-2
	1.2 Introduction to TRIPS and WTO.	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
	1.3 Kinds of Intellectual property rights—Copy Right, Patent, Trade Mark, Trade Secret and trade dress, Design, Layout Design, Geographical Indication, Plant Varieties and Traditional Knowledge.	K1-K5	4	1-5
	1.4 Enforcement of Intellectual Property Rights – Govt. of India step towards promoting IPR	K1-K5	2	1-5
2	PATENT RIGHT 2.1 An Overview of Patents - Elements of Patentability: Novelty, Non Obviousness (Inventive Steps), Industrial Application - Non - Patentable Subject Matter	K1-K2	3	1-5
	2.2 Registration Procedure, Rights and Duties of Patentee, Assignment and licence, Restoration of lapsed Patents	K1-K5	3	1-5
	2.3 Surrender and Revocation of Patents, Infringement, Remedies & Penalties – Patent office and Appellate Board	K1-K4	3	1-4
3	COPYRIGHT 3.1 Nature of Copyright - Subject matter of copyright: original literary, dramatic, musical, artistic works; cinematograph films and sound recordings.	K1 – K5	3	1-5
	3.2 Registration Procedure, Term of protection, Ownership of copyright, Assignment and licence of copyright	K1 – K5	4	1-5
	3.3 Infringement, Remedies & Penalties – Related Rights - Distinction between related rights and copyrights	K1 – K5	4	1-5
4	TRADEMARKS 4.1 Concept of Trademarks - Different kinds of marks (brand names, logos, signatures, symbols, well known marks, certification marks and service marks) – Objects of Trademark Law	K1 – K3	2	1-3
	4.2 Registration of Trademarks - Rights of holder and assignment and licensing of marks	K1 – K5	3	1-5
	4.3 Infringement, Remedies & Penalties – Trademarks registry and appellate board.	K1 – K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
5	OTHER FORMS OF IPR			
	5.1 Design: meaning and concept of novel and original - Procedure for registration, effect of registration and term of protection	K1- K5	4	1-5
	5.2 Geographical Indication (GI) Geographical indication: meaning, and difference between GI and trademarks - Procedure for registration, effect of registration and term of protection	K1- K5	4	1-5
	5.3 Layout Design Protection Layout Design protection: meaning – Procedure for registration, effect of registration and term of protection	K1- K5	5	1-5

BOOKS FOR STUDY

V. Scople Vinod, *Managing Intellectual Property*, Prentice Hall of India pvt Ltd, 7th edition

S. V. Satakar, "Intellectual Property Rights and Copy Rights, Ess Ess Publications, New Delhi, 2017

Ramakrishna B & Anil Kumar H.S, *Fundamentals of Intellectual Property Rights: For Students, Industrialist and Patent Lawyers* , Notion Press; 1st edition January 2017

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Lionel Bently, Brad Sherman, *Intellectual Property Law*, 6th Ed. Oxford University Press, 2022

V. K. Ahuja, *Law Relating to Intellectual Property Rights*, 3rd Ed. LexisNexis, 2017

David I. Bainbridge, *Intellectual Property*, Longman, 10th Edition, 2018

WEB SOURCES

<https://ipindia.gov.in/>

<https://ipr.icegate.gov.in/IPR/homePage>

<https://www.indiafilings.com/learn/intellectual-property-laws-in-india/>

JOURNALS

<https://ipindia.gov.in/journal.html>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
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C - Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/IP43												
IV	Course Title: INTELLECTUAL PROPERTY RIGHTS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	3	3	2	2	3	2	3	3	2	2	3
CO 2	3	3	3	3	3	2	3	3	3	3	2	2	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	2	3
CO 4	3	3	3	3	3	3	3	2	2	2	3	2	3
CO 5	3	3	3	3	3	3	3	2	2	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE LAW

CODE:23CO/AC/CO45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To understand legal frameworks and regulatory structures established by the acts.
- To acquaint students with the compliance requirements and governance mechanisms.
- To expose student ethical issues related to corporate behavior, consumer rights, and data privacy within the context of these acts.
- To comprehend the right laws of customers which can be enforced.
- To familiarize students with practical applications of law with the help of Corporate law.

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic provisions of the act.	K1
CO2	understand the legal and regulatory landscape in areas related to the Act	K2
CO3	interpret the provisions of Acts in the working of a corporate.	K3
CO4	develop the ability to apply the principles and rules outlined in these acts to real-world scenarios.	K4
CO5	evaluate the practical application of the provisions of the Acts through case laws	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Consumer Protection Act 2019	K1-K5		1-5
	1.1 Objects of the Act, Rights of Consumer, Definition – Consumer, Appropriate Laboratory, Compliant and Complainant, Consumer Dispute, Defect, Deficiency, Service and Unfair Trade Practice.		6	
	1.2. Consumer Protection Councils – Consumer dispute Redressal Commission		6	

UNIT	CONTENT	CL	HRS	CO
2	Competition Act 2002	K1-K4	6	1-5
	2.1 Concept of Competition, Development of Competition Law, Competition Policy			
	2.2 Anti-Competitive Agreements - Abuse of Dominant Position - Regulation of Combination - Powers and Functions of the Commission	K1-K5	7	
3	Prevention of Money Laundering Act 2002	K1-K3	3	1-3
	3.1 Salient features of the Act - Definition and Scope of Money Laundering - Survey, Search and Seizure	K1-K4	3	1-4
	3.2 Attachment - Powers to Arrest under the Act - Adjudication by the Adjudicating Authorities and Special Courts		4	
	3.3 Obligation of Banking Companies, Financial Institutions and Intermediaries		3	
4	Information Technology Act, 2000	K1-K3	4	1-5
	4.1 Information Technology Act – Definitions, Important terms under Information Technology			
	4.2 Legislation – Digital Signatures – Electronic Records – Certifying Authority – Digital Signature Certificate	K1-K5	4	
	4.3 Cyber Regulations Appellate Tribunal – Offences and Penalties	K1-K5	4	
5	Securities and Exchange Board of India Act, 1992	K1-K4	5	1-4
	5.1 SEBI Act - Definitions, Establishment of SEBI, Powers and Functions of Board, Registration Certificate			
	5.2 Penalties and Adjudication under the Act		5	
	5.3 Establishment, Jurisdiction, Authority and Procedure of Appellate Tribunal		5	

BOOKS FOR STUDY

Kapoor N.D., *Business Law*, New Delhi, Sultan Chand & Sons, 2019

Kuchhal M. C., *Mercantile Law 8th Edition*, New Delhi: Vikas Publishing House Pvt. Ltd., 2013

BOOKS FOR REFERENCE

Tulsian P. C., *Business Law*, New Delhi, S Chand Publishing., 2023.

Gogna P.P.S., *Mercantile Law*, 6th Edition, New Delhi, Sultan Chand & Sons.

Taxmann's Editorial Board, *Securities and Exchange Board of India SEBI Act 1992*, New Delhi, Taxmann Bare Act, 2023.

T. Ramappa: *Competition Law in India – Policies, Issues, and Developments*; 3rd Edition, New Delhi Oxford University Press, 2014

WEB SOURCES

<https://www.business.gov.in>

<https://www.cdslindia.com>

<https://www.geebeevee.org>

<https://www.mca.gov.in>

<http://www.indilaw.com/index.php>

JOURNALS

India Business Law Journal

India Law Journal Corporate

Law Journal

E-Commerce Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
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D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/AC/CO45												
IV	Course Title: CORPORATE LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	2	3	2	3	3	2	2	3
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CO 3	3	3	3	3	3	3	3	3	3	3	3	2	3
CO 4	3	3	3	3	3	3	3	2	2	2	3	2	3
CO 5	3	3	3	3	3	3	3	2	2	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

INCOME TAX PRACTICES

CODE:23CO/MC/IT54

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To help the students gain a comprehensive understanding of the concepts underlying law.
- To provide students with a knowledge of the basic concepts of the IT Act India.
- To familiarize the students with an understanding about the procedures and requirements for tax compliance.
- To enable students to calculate the taxable income under the various heads of income.
- To expose students to the computation of tax liability

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	interpret the concepts and principles of individual income tax law.	K1
CO2	explain income tax law to real-life situations and calculate income tax liabilities.	K2
CO3	examine income under different heads of income and tax liability.	K3
CO4	analyze the provisions relating to tax computation.	K4
CO5	evaluate the effectiveness of different income tax planning strategies.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Basic Concept - Income, Person, Assessee, Assessment Year, Previous Year, Gross Total Income, Total Income, Permanent Account Number (PAN)	K1-K2	2	1-2
	1.2 Residential Status	K1-K5	4	1-5
	1.3 Scope of Total Income		4	

UNIT	CONTENT	CL	HRS	CO
2	Income Under the Head Salaries and House Property	K1-K5	8	1-5
	2.1 Computation of Income under the Head - Salaries			
	2.1.1 Provisions Relating to Gratuity, Commutation of Pension, Provident Fund			
	2.1.2 Allowances, Perquisites and their Valuations			
	2.1.3 Deductions from Salary, Computation of Salary Income			
	2.2 Income from House Property, Deductions and Computation of Income from House Property.		7	
3	Income from Business and Profession	K1-K5	4	1-5
	3.1 Income Chargeable under the head		4	
	3.2 Disallowances		2	
	3.3 Presumptive Provision		5	
	3.4 Computation of Profits and Gains of Business and Profession			
4	Income from Capital Gains and Other Sources	K1-K5	8	1-5
	4.1 Income from Capital Gains - Short Term and Long Term Capital Gains			
	4.1.1 Exempted Capital Gains, Computation of Capital Gains		7	
	4.2 Income from Other Sources – Deductions, Computation of Income from other sources			
5	Computation of Total Income and Tax Liability	K1-K5	3	1-5
	5.1 Deductions – For Individuals		3	
	5.2 Set Off and Carry Forward of Income		2	
	5.3 Computation of Total Income and Tax Liability		2	
	5.4 Procedures Relating to Filing of Returns			

BOOKS FOR STUDY

V.B. Gaur & Narang, *Income Tax Law And Practice*, New Delhi: Kalyani Publishers, Latest Edition.

Singhania, Vinod K. and Monica Singhania, *Students' Guide to Income Tax*, New Delhi: University Edition. Taxmann Publications Pvt. Ltd., Latest Edition

BOOKS FOR REFERENCE

T.S. Reddy & Y. Hari Prasad Reddy, *Income Tax Law and Practice*, Chennai: Margham Publications, **Latest Edition**.

Ahuja, Girish and Ravi Gupta., *Systematic Approach to Income Tax*, New Delhi: Bharat Law House, **Latest Edition**.

Pagare, Dinkar. *Law and Practice of Income Tax*, New Delhi: Sultan Chand and Sons, **Latest Edition**.

Lal, B.B. *Income Tax Law and Practice*, New Delhi: Konark Publications, **Latest Edition**

WEB SOURCES

<http://incometaxindia.gov.in><http://incometaxindiaefiling.gov.in>

<http://www.simpletaxindia.org/p/income-from-salary-income-calculation.html>http://en.wikipedia.org/wiki/income_tax_in_india

JOURNALS

Income Tax Reports. Company Law Institute of India Pvt. Ltd., Chennai.

Taxman. Taxman Allied Services Pvt. Ltd., New Delhi.

Current Tax Reporter, Jodhpur

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/IT54												
V	Course Title: Income Tax Practices												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	3	3	3	1	3	3	2	2	3
CO 2	3	3	3	1	3	3	3	1	3	3	3	2	3
COV 3	3	3	3	1	3	3	3	1	3	3	3	2	3
CO 4	3	3	3	1	3	3	3	1	3	3	3	2	3
CO 5	3	3	3	1	3	3	3	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE ACCOUNTING AND RESTRUCTURING

CODE: 23CO/MC/CR54

CREDITS:4

L T P: 4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To facilitate students to acquire knowledge and understanding of the concepts, principles and practices of Corporate Restructure
- To familiarize students with an understanding of the techniques of restructuring
- To acquaint students with the methods of valuation of shares and Goodwill.
- To provide an understanding of Cash flow statement according to Accounting standards 3
- To expose students to the process of Amalgamation.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	eucidate / expand the idea of corporate restructuring and modern developments in restructuring	K1
CO2	facilitate the understanding of process and economic rationales of various corporate restructuring tools	K2
CO4	prepare the cash flow statement	K3
CO3	analyze company valuation techniques and Summarise amalgamation statement	K4
CO5	construct the company's financial statements using the Ind AS framework.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Final Accounts of Companies	K1-K5	5	1-5
	1.1.1 Computation of Managerial Remuneration			
	1.1.2 Preparation of Final Accounts of Companies		5	
	1.1.3 Preparation of Final Accounts under Company Law		5	

UNIT	CONTENT	CL	HRS	CO
2	2.1 Cash Flow Statement (As Per Accounting Standard – 3) 2.2.1 Meaning, Uses, Differences between Funds Flow Statement and Cash Flow Statement	K1 – K5	1	1-5
	2.2.2 Preparation of Cash Flow Statement		3	
	2.2 Valuation of Shares and Goodwill 2.2.1 Goodwill – Methods of Valuation of Goodwill		3	
	2.2.2 Shares- Methods of Valuation of Shares		3	
3	Corporate Restructuring 3.1 Meaning, Need and Scope of Corporate Restructuring	K1- K3	2	1-3
	3.1.1 Process of Implementation		2	
	3.1.2 Types of Restructuring Strategies - Mergers, Acquisitions, Takeovers, Disinvestments and Strategic Alliances, Demerger and Hiving off		3	
	3.2 Corporate Demerger and Reverse Merger		2	
	3.3 Takeover - Meaning and Concept		2	
	3.3.1 Types of Takeovers- Legal Aspects		2	
	3.3.2 SEBI Regulations for Takeover		2	
4	Financial Reporting – Internal Reconstruction 4.1 Meaning of alteration of share capital and internal construction	K1-5	2	1-5
	4.2 Problems relating to internal reconstruction		7	
5	Mergers and Acquisitions- Amalgamation 5.1 Amalgamation –Accounting treatment as per AS-14 Calculation of purchase consideration	K1-5	2	1-5
	5.2 Methods of Amalgamation Accounting - Pooling of Interests Method, Net Purchase Method		2	
	5.3 Accounting Entries in the Books of Transferor and Transferee		6	
	5.4 Disclosure Relating to Amalgamation		6	

BOOKS FOR STUDY

Reddy, T.S. Murthy, A., *Corporate Accounting Vol II Revised*, Chennai: Margham Publications, 2022

Maheshwari, S.N., Maheshwari, Suneel K., and Maheshwari, Sharad K., *Corporate Accounting*, Vikas Publishing House, 2018

BOOKS FOR REFERENCE

Shukla, S.M. and Gupta, K.L., *Corporate Accounting*, Sahitya Bhawan Publications, 2018

Gupta, R.L. and Radhaswamy, M., *Corporate Accounting* Vol. I and II, Sultan Chand & Sons, 2013

Jain, S.P. Narang, K.L., *Advanced Accountancy Corporate Accounting* Vol. II, Kalyani Publishers, 2014

Goyal, V.K. and Goyal, Ruchi, *Corporate Accounting*, Prentice Hall Learning, 2013

Hanif, M. and Mukherjee, A., *Corporate Accounting*, McGraw-Hill Education, 2017

WEB RESOURCES

www.icaai.org

www.emeraldgrouppublishing.com

www.journals.elsevier.com

JOURNALS

Advances in Accounting Journal of Finance

Indian Journal of Commerce

Journal of Corporate Accounting and Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
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C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/CR54												
V	Course Title: CORPORATE ACCOUNTING AND RESTRUCTURING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	-	1	3	3	2	3	3	-	2	3
CO 2	3	2	3	-	2	2	3	3	3	3	-	2	3
CO 3	3	3	3	1	1	2	2	2	3	3	1	2	3
CO 4	3	3	3	2	2	3	3	2	2	2	2	1	3
CO 5	3	3	3	2	3	3	3	2	2	2	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

DRAFTING AND CONVEYANCING

CODE: 23CO/MC/DC53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To equip the students with the concepts of drafting, conveyancing and pleading
- To familiarize the students about the effectiveness of legal documentation.
- To enable the students in understanding the legal requirements in drafting any legal document
- To acquaint the students with the knowledge about the difference between drafting a document and conveyancing, civil and criminal pleading
- To expose the students in drafting a legal document.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline the core concepts in drafting conveyancing and Pleading	K1
CO2	apply the necessary acumen in drafting legal documents both civil and criminal	K2
CO3	categorize the techniques of Civil and Criminal Proceedings in entities.	K3
CO4	assess the relevance of the legal documents relating to civil or criminal proceedings	K4
CO5	construct a legal document.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Drafting and Conveyancing	K1 - K3		1- 3
	1.1 Drafting			
	1.1.1 Drafting- Meaning, General Principles – Rules for Drafting of Deed and Conveyance, Rules Relating to Interpretation		2	
	1.1.2 Aids to Clarity and Accuracy – Legal Requirements and Implications.		2	
	1.2 Conveyancing		3	
2	1.2.1 Conveyancing- Meaning, General Principles – Basic Requirements for Deeds of Transfers	K1- K5		1- 5
	1.2.2 Description of Deed		2	
	Drafting of Orders, Agreements and Contracts			
	2.1 Drafting of Orders		2	
	2.1.1 Appointment Orders			
	2.1.2 Suspension Orders – Order of Dismissal and Discharge, Charge sheets, apprenticeship Agreements, Shareholders’ Agreement		3	
	2.2 Drafting of Agreements		2	
	2.2.1 Agreements to Sell/Purchase- Foreign Collaboration Agreements –Service Agreements			
3	2.2.2 Hypothecation - On-line Shopping Agreement- Leave, License and Rental Agreement- Outsourcing Agreements.	K1- K5	2	1- 5
	2.3 Drafting of Contracts		2	
	2.3.1 Drafting of Contracts-Importance and Procedure			
	2.3.2 Form of Contract – Dealership Contracts, Building Contracts, Agency Contracts-Ingredients of Agency Contract-Service Contract		2	
	2.3.3 Electronic Contracts (E-Contracts Essentials and Types of E-Contract, Important Points with regard to E- Contracts)		2	
	Drafting of Deeds			
	3.1 Basic Components of Deeds – Use of Appropriate Words and Expressions- Endorsement and Stamping of Deed		2	
	3.2 Types of Deed	K1- K5	2	1- 5
	3.2.1 Deed of Hire Purchase Agreement			
	3.2.2 Relinquishment Deed-Deed of Sale of Immovable Property		2	
	3.3.3 Deed of Amalgamation of Companies- Deed of Sale of Business		2	

4	Deed of Assignment 4.1 Assignment Deed-Importance and Types	K1 - K5	2	1- 5
	4.1.1 Business Debts – Shares in a Company – Policies in Insurance		2	
	4.1.2 Patents, Trademarks, Copyrights – Business and Goodwill and other Rights and Interests – Deed of Exchange and Gift Deeds.		4	
	4.2 Deed of Power of Attorney- Revocable – Irrevocable General and Specific Letters of Authority.		2	
5	Pleading 5.1 Meaning and Importance-Essentials and Particulars of Pleading-Signing and Verification- Amendment in Pleadings.	K1- K5	4	1- 5
	5.2 Civil Pleadings- Injunction Application-Interlocutory Application- Revision Petition- Review Petition		3	
	5.3 Criminal Pleadings- Meaning – Complaint- Application for Bail- Anticipatory Bail		3	

BOOKS FOR STUDY

R.N. Chatruvedi, *Pleading, drafting and conveyancing.*, Central Law publications,2018

G.M.Kothari and Arvind G. Kothari, *Drafting and Conveyancing*, N.M. Tripathi p ltd., Mumbai, 2017

DR R.Prakash, *Art of Conveyancing and Pleading*, Eastern Book Co.,2023

BOOKS FOR REFERENCE

J.C.Verma, *Commercial Drafting and Conveyancing*, Bharat Law Publishers,2020

N.S. Bindra *Pleadings and Practice* Universal/Lexisnexis 13th Edition,2022

Rajendrapal and Korlahalli, *Business Communication*, SulthanChand& Sons, NewDelhi , 2012

WEB SOURCES

www.icsi.edu

<http://dhaka.academia.edu/RaisuLIslamSourav/>

www.legalviewsofsourav.blogspot.co

JOURNAL

Madras Law Journal

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/DC53												
V	Course Title: DRAFTING AND CONVEYANCING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	3	2	2	2	3	2	1	2	3
CO 2	3	2	2	1	3	3	2	3	3	3	-	3	3
CO 3	3	3	3	-	2	2	3	2	3	3	1	2	2
CO 4	3	3	2	2	2	3	3	2	2	2	-	1	3
CO 5	3	3	3	2	3	3	3	2	2	2	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

SECRETARIAL PRACTICE

CODE:23CO/MC/SP53

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To expose students to the secretarial duties relating to the formation of a company
- To provide inputs on the secretarial aspects relating to issue of shares
- To acquaint the students with the secretarial responsibilities relating to company management
- To equip students with the necessary secretarial skills required for effective administration of organisation
- To help the students learn office etiquette, protocols, and professional behavior in organisation as a company secretary

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic secretarial concepts and terminology	K1
CO2	demonstrate the roles and responsibilities of company secretaries	K2
CO3	apply and critically examine the different secretarial practices and procedures	K3
CO4	evaluate and take decisions based on criteria and standards related to secretarial practice	K4
CO5	develop necessary skills for a career in Company Secretaryship	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			1-2
	1.1 Secretary – Meaning and Types of Secretaries	K1-K2	2	
	1.2 Company Secretary – Definition and Legal Position	K1-K4		1-4
	1.3 Rights, Duties and Liabilities of a Company Secretary	K1-K5	3	1-5
	1.4 Qualification, Appointment and Dismissal of a Company Secretary		3	

UNIT	CONTENT	CL	HRS	CO
2	Secretarial Standards	K1-K5	6	1-5
	2.1 Meaning, Scope and Need			
	2.2 Secretarial Standards relating to (SS1-SS5)			
	2.2.1 Meetings of Board of Directors			
	2.2.2 General Meetings			
	2.2.3 Dividend			
	2.2.4 Registers and Records			
	2.2.5 Minutes			
3	Duties of a Secretary Relating to Formation of a Company	K1-K5	4	1-5
	3.1 Promotion and Incorporation			
	3.2 Prospectus		4	
	3.3 Issue of Shares		4	
4	Duties of a Secretary Relating to Members and Meetings	K1-K5	4	1-5
	4.1 Register of Members – Preparation and Duties relating to Maintenance of Register of Members			
	4.2 Secretarial Duties relating to Meeting			
	4.2.1 Board Meetings – Frequency, Notice, Agenda, Quorum, Resolution, Minutes and Procedure for Holding the Meeting		6	
	4.2.2 Extra-ordinary General Meeting – Notice, Explanatory Statement and Procedure for Conduct			
	4.2.3 Annual General Meeting- Statutory Provisions and ‘ Duties of a Company Secretary, By Member’s Requisition			
	4.3 Conduct of the Meeting		4	
5	Secretarial Duties Relating to Winding up and Dissolution	K1-K5	4	1-5
	5.1 Secretarial Duties for each Method of Winding up.			
	5.2 Liquidators, Rights and Powers- Appointment of Committee of Inspection, Position of Company Secretary in Liquidation		4	

BOOKS FOR STUDY

Kapoor, N.D. *Company Law and Secretarial Practice*. New Delhi: Sultan Chand, 2020.
K.Ramachandra, B. Chandrashekara, S. Allah Bakash. *Company Law and secretarial practice*. Himalaya Publishing House 2017

BOOKS FOR REFERENCE

Dr G.K Varshney , *Company Law* , Sahitya Bhawan Publications, 2022
Taxmann Experts, *Company’s Act , 2013* , Taxmann Publications , 2023
J Santhi , *Secretarial Practice* , Margham Publications , 2022
Dr. S.M. ShuklaK. JainP. Mahajan ,*Company law*, Sahitya Bhawan Publications,2022
ICSI, *Company Law and Practice – Executive Programme*, 2022

WEB SOURCES

www.ddegjust.ac.in
www.legalserviceindia.com
www.businesscommunicationarticles.com
www.icsi.edu

JOURNALS

Company and Securities Law Journal
 Company law journal
 Company news and reports

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/SP53												
V	Course Title: SECRETARIAL PRACTICE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	-	2	2	2	2	3	2	-	2	3
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CO 3	3	2	2	1	3	3	2	2	3	3	1	3	3
CO 4	3	3	3	2	2	3	2	2	2	2	2	2	3
CO 5	3	2	3	2	3	3	2	2	2	2	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

Interdisciplinary Core Course Offered by the Department of Commerce (Corporate Secretaryship and Banking, Finance & Entrepreneurship) to B.Com. (Corporate Secretaryship and Banking, Finance & Entrepreneurship)

SYLLABUS

(Effective from the Academic Year 2023-2024)

DESIGN THINKING AND INNOVATION FOR ENTREPRENEURS

CODE: 23ID/IC/DI55

CREDITS:5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To expose students to design process as a tool for innovation
- To develop students' professional skills in Innovation Management
- To familiarize the students on portfolio of work to set them apart in the job market
- To provide an opportunity for students to develop teamwork and leadership skills
- To acquaint students with innovative business strategies

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	define and Interpret various innovation models	K1
CO2	comprehend and build empathy for target audience	K2
CO3	apply examine the innovative business ideas	K3
CO4	develop a strong understanding of the design process	K4
CO5	evaluate the effectiveness of innovation in different business venture	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Human Centered Design 1.1 Introduction to Human-centered Design; Roots of Design Thinking - Design Thinking as a Celebration	K1-K4	4	1-4
	1.2 Digital Disruption and Technology Evolution		3	
	1.3 Appreciating User Needs – Knowing your Users, Identifying Customer Needs	K1-K5	4	1-5
	1.4 Designing with Empathy, Designing for Diversity and Inclusion		5	

UNIT	CONTENT	CL	HRS	CO
2	Ideation and Applied Creativity 2.1 Ideation techniques and Tools for Fostering Creativity	K1-K4	5	1-4
	2.2 Visualisation and storytelling; Immersive learning exercises		5	
	2.3 Prototyping and Testing – Minimum Value Proposition; Proof of Concept, Designing,] Tooling and Building		3	
	2.4 Learning from Failed Design		4	
3	Product and Service Design 3.1 Lean and Agile Product/ Service Design	K1–K5	3	1-5
	3.2 Sustainability through Design Thinking		4	
	3.3 Design for Products and Services		4	
	3.4 New Product Development Processes		5	
4	Innovation Management under Entrepreneurship 4.1 Concept of Intrapreneurship	K1-K5	4	1-5
	4.2 Innovation Project Life-Cycle		5	
	4.3 Frugal Innovation		3	
	4.4 Innovation Management Models		4	
5	Leading Innovation in Organisations 5.1 Innovation for Growth and Transforming Business	K1- K5	4	1-5
	5.2 Need for Leadership and Commitment in Innovation		3	
	5.3 Collaborative Ideation and Innovation		3	
	5.4 Data Driven Innovation		3	

BOOKS FOR STUDY

Prof. Nigel Cross - *Design Thinking Understanding How Designers Think and Work*, Bloomsbury 2019

S.S. Kanka, *Creativity and Innovation in Entrepreneurship*: New Delhi: Sultan Chand & Sons, 2021

BOOKS FOR REFERENCE

S.S.Kanka & C.B.Gupta, *Entrepreneurship and Small Business Management*, New Delhi: Sultan Chand & Sons, 2023

Bhatia RC, *Entrepreneurship: Business and Management*, New Delhi: Sultan Chand & Sons, 2020

Dr. D. Kesavan, *Entrepreneurship Development*, Chennai: Notion Press Media Pvt. Ltd, 2019
Charntimath, *Entrepreneurship Development and Small Business Enterprises*, New Delhi: Pearson Education India, 2013

Scott Swan, Michael G. Luchs and Abbie Griffin, *Design Thinking: New Product Development Essentials*, New Jersey: Wiley Blackwell 2016

WEB SOURCES

<https://schoolofdesignthinking.echos.cc/>

<https://ideou.com>

<https://hbr.org/2018/09/why-design-thinking-works>

<https://interaction-design.org>

JOURNALS

International Journal of Design Creativity and Innovation

IAR Journal of Entrepreneurship, Innovation & Design Thinking

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/DI55												
V	Course Title: DESIGN THINKING AND INNOVATION FOR ENTREPRENEURS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	1	-	-	3	-	3	-	-
CO 2	3	3	2	3	3	1	2	2	3	2	3	2	2
CO 3	3	3	3	2	3	2	1	1	3	2	3	1	1
CO 4	3	3	3	3	3	3	2	1	3	2	3	2	1
CO 5	3	3	3	3	1	3	1	1	3	1	3	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

GOODS AND SERVICES TAX

CODE:23CO/MC/GT64

CREDITS:4

L T P:4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To familiarize students with an understanding of the GST law in the country
- To provide students with the working knowledge of the principles and provisions of GST
- To enable students to analyze and understand the implications of GST
- To develop a comprehensive understanding of GST principles, mechanisms, and compliance requirements.
- To acquaint students with the legal and procedural aspects of GST, enabling accurate interpretation and application of tax regulations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and interpret the concepts for GST	K1
CO2	comprehend different aspects of the Goods and Service Tax (GST) framework	K2
CO3	compute and examine the various payment and levying methods under GST	K3
CO4	record and analyze the transactions for compliance under GST.	K4
CO5	evaluate the effectiveness of GST Return's applicability in various fields	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Constitutional Framework of Indirect Taxes before GST (Taxation Powers of Union and State Government)	K1-K5	4	1-5
	1.2 Concept of VAT-Meaning, Variants and Methods, Major Defects in the Structure of Indirect Taxes prior to GST		5	
	1.3 Rationale for GST- Structure of GST (SGST CGST, UTGST & IGST) 1.3.1 GST Council, GST Network, State Compensation Mechanism, Registration.		6	
2	Levy and Collection of GST 2.1 Taxable Event- “Supply “of Goods and Services, Place of Supply, Within State, Interstate, Import and Export, Time of Supply	K1-K5	3	1-5
	2.2 Valuation for GST- Valuation Rules, Taxability of Reimbursement of Expenses		4	
	2.3 Exemption from GST- Small Supplies and Composition Scheme		4	
	2.4 Classification of Goods and Services- Composite and Mixed Supplies.		4	
3	Input Tax Credit 3.1 Basic concept, Simple Illustrations on Calculation of GST and Input Tax Credit	K1 – K5	5	1-5
	3.2 Order of Adjustment of Input Tax Credit against Output CGST, SGST, IGST.		7	
4	Payment of GST 4.1 Time of GST Payment	K1-K5	3	1-5
	4.1.1 Modes of Payment		3	
	4.1.2 Challan Generation		3	
	4.1.3 CPIN TDS and TCS		3	
5	Procedures and Special Provisions 5.1 Tax Invoice, Credit and Debit Notes, Returns, Audit in GST	K1- K5	3	1-5
	5.2 Assessment- Self-Assessment, Summary and Scrutiny.		2	
	5.3 Taxability of E-Commerce, Anti-Profiteering, Avoidance of Dual Control, E-way Bills, Zero-Rated Supply, Offences and Penalties, Appeals		3	
	5.4 Applicability of GST Audit		3	

BOOKS FOR STUDY

V S Datey, All About GST, Taxmann Publications,2016

V.S.Datey, *GST Ready Reckoner*, Chennai: Taxmann Publications,2023

BOOKS FOR REFERENCE

Gupta, S.S. *GST- How to meet your obligations*, Chennai: Taxmann Publications,2023

CA. Rajat Mohan, *Illustrated Guide to Goods & Service Tax, New Delhi*: Bharat Law House,2016

Timir Baran Chatterjee and Vivek Jalan, *How To Handle - GST-TDS & GST-TCS, GST Audit, GST Annual Return*, New Delhi: Book Corporation,2018

Adithya Singhanian, *GST Audit and Annual Return*,Taxmann Publications,2021

WEB SOURCES

www.gst.gov.in

www.zoho.com/in/books/gst/

JOURNALS

Indian Journal of Finance

Journal of Global Economics

Asian Journal of Management Research

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
To Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/GT64												
VI	Course Title: GOODS AND SERVICE TAX												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	3	2	3	2	2	2	3	3
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CO 3	3	2	2	1	3	3	2	2	3	3	3	3	3
CO 4	3	3	2	2	2	3	3	3	3	3	3	3	3
CO 5	2	3	3	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL SECURITY LAWS

CODE: 23CO/MC/SL63

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To facilitate students to understand the features of social security laws
- To orient students with the fundamental principles of Provident Fund, Pension and Insurance
- To create an awareness about the social security legislations in different establishments
- To enable the students to explore the foundations and acts governing social security laws.
- To help students to analyze the role of social security in promoting the welfare of the citizens

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic principles and rules of various social security laws	K1
CO2	relate and practice the provision of Social Security laws	K2
CO3	apply and articulate the concepts of social security regulations	K3
CO4	examine and appraise the importance of Social Security Legislations	K5
CO5	evaluate the Social Security legislations providing financial benefits	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Social Security 1.1 Meaning, Significance and Objects	K1-K4	2	1-4
	1.2.Evolution and Constituents of Social Security		4	
	1.3. Difference between Organised and Unorganised Sector		3	

UNIT	CONTENT	CL	HRS	CO
2	Law relating to Retirement Benefits 2.1 Employees' Provident Funds and Miscellaneous Provisions Act- Definitions Application	K1- K5	3	1-5
	2.1.1 Employees Provident Fund Scheme, Pension Scheme		3	
	2.1.2 Deposit Linked Insurance Scheme- Administration, Claims and Benefits		2	
	2.1.3 Penalties and Offences		2	
	2.2 Payment of Gratuity Act- Definitions, Payment, Forfeiture, Nomination, Determination, Recovery, Inspectors, Penalties and Offences		3	
3	3 Laws relating to welfare of Employees 3.1 Equal Remuneration Act	K1- K5	3	1-5
	3.2 Employees' State Insurance Act, - Definition, Contributions, Claims and Benefits and Offences		3	
	3.3 Apprentices Act, 1961 - Scope, Coverage, Definitions, Apprentices and their Training, Obligation of Employers and Apprentices, Authorities, Penalties and Offences		4	
4	4.1 Law relating to welfare of Women 4.1.1 Maternity Benefit Act, 1961 - Objects, Salient Features, Application and definitions	K1-K5	4	1-5
	4.1.2 Maternity Benefit (Amendment) Act, 2017- Applicability, Key Aspect, Changes by Amendment, New Inclusions		3	
	4.2 Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013		3	
5	Laws relating to Unorganized Sector 5.1 The Unorganised Workers' Social Security Act 2008-Objects, Features Application and Definitions	K1- K5	4	1-5
	5.2 National and State Social Security Board		3	
	5.3 Social Security Scheme		3	

BOOKS FOR STUDY

Kapoor, ND, *Elements of Mercantile Law*, New Delhi: Sultan Chand & Sons, 2018
Shreenivasan, M R (Dr.), *Industrial & Labour Law*, Chennai: Margham Publications, 2018

BOOKS FOR REFERENCE

Kumar, H.L. *Digest of Labour Cases*, New Delhi: Universal Law, 2018
Srivastava, S.C. *Industrial Relations & Labour Laws*, New Delhi: Vikas Publishing, 2016
Malik, K.L. *Industrial Laws and Labour Laws*, Lucknow: EBC Web Store, 2017
Hitesh Bhatia, *Introduction to Social Security - With Special Reference to India*, New Delhi: Mangalam Publisher, 2015

WEB SOURCES

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<https://www.esic.gov.in/>
<https://clc.gov.in/clc/sites/default/files/PaymentofGratuityAct.pdf>
<https://clc.gov.in/clc/acts-rules/equal-remuneration-act>
https://labour.gov.in/sites/default/files/maternity_benefit_amendment_act2017_.pdf

JOURNALS

Journal of Social Security Law
The Journal of Social Welfare Law
International Journal of Labour Research

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
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D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
To Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/SL63												
VI	Course Title: SOCIAL SECURITY LAWS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	3	1	2	2	2	2	3	1	1	2	3
CO 2	3	2	3	1	2	2	1	2	3	3	2	3	3
CO 3	3	3	3	2	3	2	3	2	3	3	3	3	3
CO 4	3	3	3	1	2	2	3	3	3	3	3	3	3
CO 5	3	2	3	2	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

DUE DILIGENCE AND COMPLIANCE MANAGEMENT

CODE:23CO/MC/DC64

CREDITS:4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the objectives and procedures of due diligence investigation
- To enable students to identify the critical information
- To assist students to design and implement comprehensive due diligence processes that assess potential risks and vulnerability.
- To impart know-how on risk management
- To acquaint students with skills to establish and maintain robust compliance programs within an organisation.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	gain insights into regulatory framework and compliance management	K1
CO2	understand the need and importance of due diligence in various business transactions	K2
CO3	prepare a due diligence and compliance report for business	K3
CO4	identify and analyze the various due diligence methods incurred in business and the importance of compliance management	K4
CO5	evaluate and manage the risks associated with business	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Due Diligence - An Overview		5	
	1.1 Introduction, Nature, Need and its Significance	K1-K2		1-2
	1.2 Objectives, Scope and Types of Due Diligence		5	
	1.3 Process of Due Diligence	K1-K5	5	1-5

UNIT	CONTENT	CL	HRS	CO
2	Issue of Securities			
	2.1 Introduction and Regulatory Framework for Pre and Post Securities Issue Due Diligence - IPO/FPO	K1-K5	6	1-5
	2.2 Due Diligence - Preferential Issues of Listed and Unlisted Companies	K1-K4	3	1-4
	2.3 Employee Stock Option, Bonus, Issue, Rights Issue, Debt Issues		3	
3	Merger and Acquisition	K1-K5	5	1-5
	3.1 Introduction, Due Diligence Process Activity Chart, Preparation of Scheme of Amalgamation			
	3.2 Impact of Due Diligence on Valuation, HR and Cultural Due Diligence	K1-K4	4	1-4
	3.3 Corporate Governance Due Diligence, Environmental Due Diligence	K1-K4	4	1-4
	3.4 Importance of Documentation	K1-K2	2	1-2
4	Due Diligence Report		5	
	4.1 Format of Due Diligence Report, Important Contents of Due Diligence Report	K1 - K5		1-5
	4.2 Possible Hurdles in Due Diligence	K1-K4	3	1-4
	4.3 Steps to Overcome the Hurdles in Due Diligence		3	
5	Compliance Management		4	
	5.1 Meaning, Need, Concept	K1-K2		1-2
	5.2 Significance and Scope of Compliance Management	K1-K5	4	1-5
	5.3 Role of information Technology in Compliance Management Systems through Web based Compliance System		4	

BOOKS FOR STUDY

Abha Aggarwal & S K Aggarwal, *Secretarial Audit Compliance Management & Due Diligence*, New Delhi: Reliance Publications, 2018
Aapl Landmen, *Mergers and Acquisitions Due Diligence*, Create Space Independent Publishing Platform, 2017

BOOKS FOR REFERENCE

Sangeet Kedia & Anuj Sharma, *Sangeet Kedia's Secretarial Audit, Compliance Management & Due Diligence*, New Delhi: Pooja Law House, 2017
S K Pandab, *Lawpoint's Secretarial Audit Compliance Management and Due Diligence*, New Delhi: LawPoint Publications, 2014

Jeffrey W. Berkman, *Due Diligence and the Business Transaction: Getting a Deal Done*, Apress, 2015
 Peter Howson, *The Essentials of M&A Due Diligence*, London: Routledge Focus, 2018

WEB SOURCES

<https://www.studocu.com/en-au/document/university-of-new-south-wales/business-and-the-law/lecture-notes/lecture-notes-lectures-2-business-structures-compliance-due-diligence-riskmanagement/10709/view>
<https://www.icsi.in/Study%20Material%20Professional/NewSyllabus/SACMDD.pdf>
<https://www.moonstone.co.za/notes-on-due-diligence/>

JOURNALS

Journal of Private Equity
 Journal of Business & Economics Research
 Lexis Nexis

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
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C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/MC/DC64												
VI	Course Title: DUE DILIGENCE AND COMPLIANCE MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
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CO 5	3	3	3	1	3	2	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNSHIP

CODE:23CO/MC/IN64

CREDITS:4

OBJECTIVES OF THE COURSE

- To provide students with hands-on training on secretarial responsibilities
- To familiarize students with the organization structure
- To enhance students' employability
- To widen the social and cultural experience of students
- To enable students to identify and develop professional skills

COURSE LEARNING OUTCOMES:

On successful completion of the internship, students will be able to

- Identify additional skills on career enhancement
- Acquire technical competence on secretarial activities undertaken
- Realign learning towards employability
- Handle responsibilities in the areas of Secretarial Practice and Administration
- Assess professional skills to enhance career prospects

ABOUT THE INTERNSHIP

The role of the interns includes:

- Engage in teams for execution of work assigned by the respective departments
- Handle assignments and Coordinate
- Work on documentation and drafting
- Identify regulatory compliance relating to Companies Act
- Preparation of agenda minutes and notices to conduct meetings
- Send emails to prospective clients
- Other duties such as:
- Front Office tasks
- KYC documents sharing and bank related documentation
- Tracking payments and presentation of bills for signature

GUIDELINES:

- The student will undergo practical training in a reputed organization for 100 hours.
- The student is expected to work in the secretarial department at least for 40 hours and the remaining 60 hours under other departments such as Finance, Marketing and HR
- Maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
 - Hours worked
 - Nature of work performed
 - Signature of the supervisor
- Submit interim reports to the faculty advisor after completion of every 25 hours of work
- A final consolidated report to be submitted to faculty advisor

Preparation of Final Report

The report should have a minimum of 50 pages detailing the work assigned and performed in the organization.

- Introduction
- Profile of the Company
- Practical Aspects of Internship
- Advantages
- Limitations
- Findings
- Suggestions
- Conclusion

PATTERN OF ASSESSMENT

Internship Report Evaluation:

Rubrics for Evaluation	Marks	Cognitive Level
Log book	10	K1
Interim Report	20	K2
Project report	40	K3-K4
Viva	30	K5
	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI –600086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023–2024)

INDUSTRIAL REGULATIONS

CODE:23CO/ME/IR45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To equip the students with an understanding on the theories and practices of Industrial Relations.
- To familiarize students with the interaction pattern among labour, management and the state
- To expose the students on issues in Industrial Relations
- To enable the students in understanding the problems in trade unions and remedies
- To orient the students on grievance redressal procedure

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the scope of employment related legislations	K1
CO2	gain a comprehensive overview of the institutional framework	K2
CO3	examine the role played by the employers, employee, trade unions and the government	K3
CO4	elucidate the process and steps involved in negotiation	K4
CO5	analyse the problems in trade unions and remedies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction Industrial Relations 1.1 Definition, Scope, Objectives and Nature	K1-K5	4	1-5
	1.2 Factors and Importance of Industrial Relations		4	
	1.3 Approaches to Industrial Relations		7	
2	Collective Bargaining and Negotiation 2.1 Meaning, Objectives, Benefits and Importance of Collective Bargaining	K1-K5	4	1-5
	2.2 Conditions and Essentials for Successful Collective Bargaining, Collective Bargaining Process		5	
	2.3 Negotiation - Types, Techniques of Negotiation, Negotiation Process, Essential Skills for Negotiation		5	
3	Workers participation in Management and Grievance Management 3.1 Meaning, Objectives, Factors Influencing Participation	K1-K5	3	1-5
	3.2 Forms and Levels of Participation, Benefit of Workers Participation in Management		4	
	3.3 Meaning and Concept of Grievance, Causes of Grievance, Effects of Grievance, Grievance Redressal Procedure.		4	
4	Labour Welfare 4.1 Concept, Objectives and Principles of Labour Welfare	K1-K5	4	1-5
	4.2 Role of Workers Participation in Labour welfare, Types of Conflict Resolution, Statutory and Non Statutory		5	
	4.3 Agencies for Labour Welfare in India- Statutory and Non-Statutory		5	
5	Trade Unions & Quality Circles 5.1 Nature of Trade Unions, Trade Union Movement in India		3	

UNIT	CONTENT	CL	HRS	CO
	5.2 Reasons for Employees to Join Trade Unions, Problems of Trade Unions and Remedies	K1-K5	4	1-5
	5.3 Quality Circles (QC)- History , Organization Structure, Benefits and Problems of QC.		4	

BOOKS FOR STUDY

Mamoria C.B.&Mamoria S., *Dynamics of Industrial Relations*, Mumbai: Himalaya Publishing House, 2023

P C Tripathi, *Personnel Management and Industrial Relations*, New Delhi: S Chand, 2023

BOOKS FOR REFERENCE

C.S Venkata Ratnam, *Industrial relations*, Noida: Oxford University Press, 2017

Mathur B.L., *Management of Industrial Relations*, New Delhi: National Publishing House, 2017. Michael V.P., *Industrial Relations in India and Workers' Involvement in Management*, New Delhi: Himalaya Publishing House, 2018.

Papola T.S., P.P.Ghosh and A.N. Sharma (Eds.), *Labour, Employment and Industrial Relations in India*, New Delhi: B.R. Publishing Corporation, 2016.

Sen Ratna, *Industrial Relations in India*, Noida: Macmillan India Ltd, 2017

WEB SOURCES

<https://lecturenotes.in/materials/13771-note-of-industrial-relations-by-devi-gith>

<https://businessjargons.com/industrial-relations.html>

<https://www.danshaw.co.za/role-government-in-industrial-relations/>

<http://www.yourarticlelibrary.com/industries/study-notes-on-industrial-relations/74207>

JOURNALS

International Journal of Comparative Labour Law and Industrial Relations Journal of Industrial Relations International Journal of Science and Research

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/ME/IR45												
IV&VI	Course Title: INDUSTRIAL REGULATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	-	3	1	-	2	3	1	-	1	3
CO 2	3	3	3	1	3	1	1	1	3	2	1	2	2
CO 3	3	3	3	1	3	3	-	2	3	2	2	2	1
CO 4	2	2	2	1	3	3	2	1	3	3	2	1	1
CO 5	3	2	3	1	3	2	1	3	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

HUMAN RESOURCE MANAGEMENT

CODE:23CO/ME/HR45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To familiarize the students with the functions and Purpose of HRM
- To enable students to understand the processes of selection, recruitment and training process in an organization
- To provide a knowledge in analyzing the Human Resources management processes involving planning and training, significance of performance appraisal and methods of compensation
- To expose students to the various process of managing people in an organization.
- To contemplate the contemporary challenges in human resource management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and understand the various concepts of Human Resource Management	K1
CO2	compare and Contrast the recent Human Resource management practices	K2
CO3	identify and organize HR plans and policies for achieving the Organisational goals	K3
CO4	examine the methods and process involved to motivate employees and enhance workforce productivity.	K4
CO5	evaluate and understand the approaches to measures employees which helps in building the employee and employer relationship.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Evolution of HRM- Human Capital Management (HR-BP)-Definition, Significance and Objectives of Human Resource Management	K1-K2	4	1-2
	1.2 Functions and Scope of Human Resource Management	K1-K3	3	1-3
	1.3 Roles of HR Manager - Recent Trends in HRM – HR Policies and Practices	K1-K5	4	1-5
2	Procuring Human Resource 2.1 Human Resource Planning – Importance – Objectives and Process of Manpower Planning	K1-K2	4	1-2
	2.2 Job Analysis, Job Description, Job Specification	K1-K5	4	1-5
	2.3 Recruitment – Meaning-Sources. Recruitment - Sources: Internal and External - Methods - Process of recruitment	K1-K4	4	1-4
	2.4 Selection –Meaning -Process – Orientation& Placement		4	
3	3.1 Training and Development 3.1.1 Meaning and Definition - Purpose and Benefits Training and development - difference between training and development.	K1 – K5	4	1-5
	3.1.2 Methods and Techniques of Training: On the Job Training and Off the job training – Competency Mapping an Overview		5	
	3.2 Performance appraisal Importance, purpose - Process of Performance appraisal - Appraisal methods		5	
4	Employee Maintenance and Retention 4.1 Introduction-Meaning-Significance -Techniques of employee retention – succession planning	K1 – K5	4	1-5
	4.2 Compensation-Meaning and Benefits – Objectives. Right sizing of work force - Need for right sizing		4	
	4.3 Motivation - theories of motivation - Career Management - career planning and its stages.		6	

UNIT	CONTENT	CL	HRS	CO
5	Approaches to Measure HR 5.1 An overview -Competitive Benchmarking-HR Accounting-HR Auditing-HR Cost Monitoring	K1- K4	2	1-4
	5.2 HR Effectiveness Index -HR Key Indicators-HR Profit Centre – HR Reputation.		3	
	5.3 Contemporary Challenges in Human Resource Management .		5	

BOOKS FOR STUDY

Gupta, C. B *Human Resource Management*. Delhi: Sultan Chand & Sons,2018.
K. Aswathappa *Human Resource Management: Text & Cases*, 8th edition, Himalayas Publications ,2018

BOOKS FOR REFERENCE

Khanka, S.S. *Human Resource management*. New Delhi: Sultan Chand, 2023.
Prasad, L.M. *Human Resource management*. New Delhi: Sultan Chand, 2023
Gary Dessler and Biju Varrkey , *Human Resource Management*, 15th edition, Pearson, India, 2017
Laura Hall, Carol Atkinson, Stephen Taylor Derek Torrington, *Human Resource Management*, Pearson Education UK ,2017

WEB SOURCES

/hrcouncil.ca/hr-toolkit/planning-strategic.cfm
www.hrware.com/recruitment/88-2/
www.educationobserver.com/forum/showthread.php?tid=12165
managementhelp.org/training/

JOURNALS

International Journal of Human Resource Management
The Human Resource Management Review
Human Resource Management International Digest
Human Resource Management Journal.

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/ME/HR45												
IV&VI	Course Title: HUMAN RESOURCE MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	-	2	2	-	2	-	3	2	1	2	2
CO 2	3	2	2	3	2	2	3	2	3	3	2	3	2
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	2	3	2	2	3	3	3	3	3	3	2	3	3
CO 5	2	3	3	3	3	3	3	2	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

ENTREPRENEURIAL DEVELOPMENT

CODE:23CO/ME/ED45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVE OF THE COURSE

- To enable students to acquire knowledge required for organizing and carrying out entrepreneurial activities
- To facilitate students to develop their ability in analyzing and understanding business situations
- To provide students with the knowledge for planning business activities
- To equip students to understand the dynamics of entrepreneurial development and its role in driving growth.
- To acquaint students with in-depth knowledge on various stages of business formulation.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	comprehend the key aspects of business	K1
CO2	understand the different innovation and entrepreneurship models and their implications	K2
CO3	identification and Application of personal attributes that enable best use of entrepreneurial opportunities	K3
CO4	analyze the possible entrepreneurial opportunities	K4
CO5	explore the opportunities to start business	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Concept of Business Development - Meaning, Definition, Characteristics and Need	K1-K5	2	1-5
	1.2 Entrepreneur - Meaning, Definition, Scope, Need and Functions		2	
	1.3 Importance of the Growth of New Venture for Economic Development.		3	
	1.3.1 Internal and External environment – Economic and Non -Economic, Psychological, Social, Cultural, Political, Legal and Economic Factors, Barriers		3	
2	Business Plan 2.1 Opportunity Identification and Selection	K1- K5	2	1-5
	2.2 Idea Generation and Screening of Business Idea, Sources of Business Idea, Evaluation of Business Idea, Selection of Business Idea		2	
	2.3 Business Plan – Meaning, Contents and Significance of Business Plan		2	
	2.4 Business Plan –Stages		3	
	2.5 SWOT analysis.		3	
3	Types of Entrepreneurs 3.1 Women Entrepreneurs 3.1.1 Definition, Problems– Opportunities and Future of Women Entrepreneurs	K1- K5	2	1-5
	3.1.2 Strategies for the Development of Women Entrepreneurs–Profiles of Successful Women Entrepreneurs – Institutions supporting Women Entrepreneurship in India		3	
	3.2 Micro Small and Medium Enterprise (MSME) 3.2.1 Small Scale Industries – Concepts, Definition, Role and Problems		3	
	3.2.2 Development of Small Scale Sector in India, SME in other Countrie		3	
4	Project Formulation 4.1 Meaning, Concept and Stages in Project Formulation	K1-K5	4	1-5
	4.2 Need and Significance of Project Formulation, Feasibility Analysis		4	

UNIT	CONTENT	CL	HRS	CO
	4.3 Elements of Project Formulation		4	
	4.4 Feasibility Report		2	
	4.5 Preparing a Model Project Report for Starting a New Venture		3	
5	Entrepreneurial Development Programs 5.1 Entrepreneurial Development Programs in India	K1- K5	5	1-5
	5.2 Entrepreneurial Development Programs in Tamil Nadu		5	
	5.3 Government Assistance in Promoting Business Development		5	

BOOKS FOR STUDY

C.B. Gupta & N. P. Srinivasan, *Entrepreneurial Development*, Sultan Chand & Sons, Revised Edition 2023
 Charantimath, *Entrepreneurship development & Small business enterprise*, Pearson Edn., New Delhi, 2018

BOOKS FOR REFERENCE

Jayashree Suresh, *Entrepreneurial Development*, Margham Publications, New Delhi, 2020
 Dr. D. Kesavan And Mr. N. Vivek, *Entrepreneurship Development*, Notion Press, 2019
 Vasant Desai, *Entrepreneurial Development Potential Beyond Boundaries*, Himalaya Publishing House, 2019
 S.S.Khanka, *Entrepreneurial Development*, S. Chand & Co, New Delhi, 2020

WEB SOURCES

<http://www.entrepreneur.com>
<http://www.businessesforsale.com>
<http://www.sba.gov>
<http://joe.sagepub.com/content/19/2.toc>

JOURNALS

Journal of Development Entrepreneurship
 Journal of Entrepreneurship Education
 Journal of Business Venturing

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
To Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/ME/ED45												
	Course Title: ENTREPRENEURIAL DEVELOPMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	1	-	2	3	1	1	1	3
CO 2	3	3	2	2	2	2	1	2	3	1	2	2	3
CO 3	3	3	3	2	3	3	2	3	3	3	3	2	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023-2024)

ESSENTIALS OF MARKETING

CODE:23CO/ME/EM45

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose to students to the basic concepts of marketing.
- To familiarize students with the types of sales promotion
- To provide an understanding of the different channels of distribution.
- To acquaint students with the 4 P's of marketing and its impact on various stages of marketing
- To develop marketing strategies that effectively communicate the value of products or services to the target audience.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define the key marketing concepts.	K1
CO2	understand the various concepts, tools and principles of marketing.	K2
CO3	construct a marketing plan for a specific product or service.	K3
CO4	compare and contrast the various marketing strategies and analyse its effectiveness	K4
CO5	assess a company's competitive landscape and identify opportunities and threats in the market.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K5	4	1-5
	1.1 Meaning, Nature, Evolution and Scope of Marketing		4	
	1.2 Marketing Mix - Elements and Core Marketing Concept		4	
	1.4 Overview of Marketing Management Process - Consumer Driven Marketing Strategies and Relationship Building		4	
2	Product Concept	K1-K2	2	1-2
	2.1 Product Concept			
	2.2 Elements of Product Policy	K1-K4	4	1-4
	2.2.1 Branding, Packaging and Labelling – Meaning, Types and Functions			
	2.3 Product Life Cycle – Stages.	K1-K5	3	1-5
	2.4 New Product Development		3	
	2.4.1 Stages in New Product Development			
	2.4.2 Reasons for Product Failure			
3	Product Pricing	K1-K5	3	1-5
	3.1 Factors affecting Pricing		2	
	3.2 Pricing Policy		3	
	3.3 Pricing Approaches or Strategies			
4	Physical Distribution	K1-K2	2	1-2
	4.1 Physical distribution vs Channels of Distribution	K1-K5	3	1-5
	4.2 Factors affecting Choice of Channel		3	
5	Promotional Mix	K1-K5	4	1-5
	5.1 Advertising - Meaning, Objectives and Significance		4	
	5.2 Sales Promotion – Meaning, Types and Importance	K1-K5	3	
	5.3 Personal Selling – Meaning, Importance and Process			

UNIT	CONTENT	CL	HRS	CO
	5.4 Publicity – Meaning and Role in Marketing		2	
	5.5 Direct Marketing – Meaning, Importance and Types		5	
	5.6 Overview of Consumer Rights, Legal Remedies Available to Consumers		7	

BOOKS FOR STUDY

C. B. Gupta., *Essentials of Marketing Management: 8th Edition*, New Delhi: Sultan Chand, 2018.

Nair, Rajan and Sanjith Nair. *Marketing. 11th Edition*, New Delhi: Sultan Chand, 2018.

BOOKS FOR REFERENCES

Philip Kotler, *Marketing, 15th edition*, New Delhi, Prentice Hall of India, 2017

Kalyan Varshney R.L, Dr. S.L. Gupta. *Marketing Management*. Himalaya, 2015

Paul Vaines , Sophie Whitehouse , Sara Rosengren, Palo Antonetti, *Fundamentals of Marketing*, OU Oxford,2021

WEB SOURCES

www.yourarticlelibrary.com

www.boundless.com

www.learnmarketing.net

JOURNALS

Journal of Marketing - American Marketing Association

Journal of Marketing Education

International Journal of Research in Marketing

International Journal of Marketing Studies

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
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	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/ME/EM45												
IV&VI	Course Title: Essentials of Marketing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	2	2	2	2	3	2	2	2	2
CO 2	3	2	2	1	2	2	2	2	3	2	2	2	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	2	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI –600 086

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023–2024)

COMMODITIES MARKET

CODE:23CO/ME/CM45

CREDITS:5

LTP:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To enable students to understand various techniques of commodity market
- To provide students with the best usage of commodity futures to maximize profit
- To familiarize students with a variety of commodity markets Research and Analysis
- To acquaint students with the derivatives market and pricing of futures commodities
- To expose students on Trading, clearing and settlement process in derivatives market

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	describe the features and characteristics of commodities	K1
CO2	identify the risks associated with commodities	K2
CO3	differentiate between spot, forward and futures trading	K3
CO4	compare and contrast investing and trading in commodities	K4
CO5	explore the mechanism of commodity derivative trading	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Commodities Market 1.1 Commodities Market in India Importance, Participants in Commodities Market, Trading in Commodities in India.	K1-2	3	1-2
	1.2 Commodities- Meaning, Types.	K1-4	6	1-4
	1.3. Commodity Exchanges in India, Reasons for Investing in Commodities.		6	

UNIT	CONTENT	CL	HRS	CO
2	Derivatives Market 2.1 Elements of a Derivative Contract, Factors Influencing the Growth of Derivatives Market.	K1-3	2	1-3
	2.2 Derivatives- Meaning, Types of Underlying Assets.	K1-4	4	1-4
	2.3 Participants in Derivatives Market, Advantages and Disadvantages of Trading In Derivatives Market.		5	
	2.4 Current Volumes of Derivative Trade in India, Difference between Forwards and Futures.		4	
3	Pricing of Futures 3.1 Futures Contract Specification, Terminologies, Concept of Convergence.	K1-5	4	1-5
	3.2 Relationship between Futures Price and Expected Spot Price, Risk.		4	
	3.3 Pricing of Futures Contract, Cost of Carry Model.		4	
4	Hedging 4.1 Speculation and Arbitrage using Futures, Long Hedge – Short Hedge.	K1-5	4	1-5
	4.2 Cash and Carry Arbitrage, Reverse Cash and Carry Arbitrage.		4	
	4.3 Payoff Charts and Diagrams for Futures Contract, Perfect and Imperfect Hedge		4	
5	Trading, Clearing and Settlement in Derivatives Market 5.1 Meaning and Concept, SEBI Guidelines, Trading Mechanism, Types of Order.	K1-5	3	1-5
	5.2 Clearing Mechanism, NSCCL, Objectives and Functions.		4	
	5.3 Settlement Mechanism, Types of Settlement.		4	

BOOKS FOR STUDY

NitiChatnani, *Commodity markets*, Noida: McGraw Hill Publication, 2018

John C. Hull and Basu, *Options Futures and Other Derivatives*, Noida: Pearson, 2018

BOOKS FOR REFERENCE

Carley Garner, *A Trader's First Book on Commodities: Everything You Need to Know about Futures and Options Trading Before Placing a Trade*, USA: Decarley Trading, LLC, 2017

Robert McDonald, *Derivatives Market*, Noida: Pearson education, 2012

K.Sasidharan and Alex K. Mathews, *Option trading – Bull market strategies*, New Delhi, McGraw Hill publication, 2014

John Stephenson, John Mauldin, *The Little Book of Commodity Investing*, Noida: Wiley Publications, 2017

WEB SOURCES

<https://commodity.com/>

<http://www.kotakcommodities.com/commodities-academies>

JOURNALS

Journal of Commodity Markets

Asian Journal of Management Research

International Journal of Commerce and Management

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CO/ME/CM45												
IV&VI	Course Title: COMMODITIES MARKET												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	-	2	3	3	2	3	3	-	2	3
CO 2	3	2	3	-	2	2	3	3	3	3	1	2	3
CO 3	3	3	3	1	2	2	2	2	3	3	1	2	3
CO 4	3	3	3	1	2	3	3	2	2	2	2	1	3
CO 5	3	3	3	2	3	3	3	2	2	2	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Courses offered by the
Department of Commerce (Corporate Secretaryship) for
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE PROGRAMMES**

SYLLABUS

(Effective from the academic year 2023-2024)

DOCUMENTATION AND COMPLIANCE

CODE: 23CO/GE/DC22

CREDITS:2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE:

- To enable students to understand compliance management and internal control systems
- To familiarize students with the terminology used in documentation
- To acquaint students with unique approach to documentation practices

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	understand the importance and the need of compliance management	K1
CO2	comprehend the compliance framework in an organization	K2
CO3	apply the principles of documentation in practice	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Documentation 1.1 Documentation – Purpose, Guiding Principles of Good Documentation, Examples of Good and Poor Documentation Practices	K1-K3	3	1-3

UNIT	CONTENT	CL	HRS	CO
	1.2 Document Management System – Meaning, Advantages & Disadvantages; Comparison of Physical and Virtual Data Room		4	
	1.3 Preservation of Records, Setting up of A Record Room, Suggestive Steps for Protecting Confidential Information		4	
2	Compliance Framework 2.1 Introduction, Corporate Compliance Framework Setup – Process	K1-K3	4	1-3
	2.2 Role of Company Secretary in Creation of Compliance Chart		4	
3	Compliance Management 3.1 Meaning, Need, Benefits and Scope of Corporate Compliance	K1-K3	2	1-3
	3.2 Process of Corporate Compliance Reporting (CCR)		2	
	3.3 Compliances – Activity Wise, Sector Wise, Industry-Specific, State & Local Laws Compliance		3	

BOOKS FOR STUDY

Coding and Documentation Compliance: A Comprehensive Guide book, 2017

Pramod Jain., Chartered Accountant's *Documentation and Compliance for Audits and Reviews*, 2020

BOOKS FOR REFERENCE

Janet Gough, David Nettleton, *Managing the Documentation Maze*, A John Wiley & So Publicatons, 2010

Nitish Singh, Thomas J. Bussen, *Compliance Management- A how to guide for executives, lawyers and other compliance professionals* ICSI study material Latest Edition

WEB SOURCES:

www.icsi.edu

www.mca.gov.in

www.sebi.gov.in

www.rbi.org.in

JOURNALS

Chartered Secretary: ICSI, New Delhi

Student Company Secretary: ICSI, New Delhi

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration : 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5x1=5	5 K1 questions	5 K1 questions
B - 50 words	K2	5x2=10	5 K2 questions	7 K2 questions
C – 150 words	K3	2x5=10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components**Total Marks: 25****Assignments/Objective Test/Quiz/Presentation****No End Semester Examination**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Courses offered by the
Department of Commerce (Corporate Secretaryship) for
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE PROGRAMMES**

SYLLABUS

(Effective from the academic year 2023-2024)

LISTING OF SECURITIES

CODE:23CO/GE/LS22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To provide a comprehensive understanding about the various investment alternatives available in the market
- To demonstrate the functions of stock market and its importance
- To educate students on compliance relating to listing and delisting agreements

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	understand the basic concepts of investments	K1
CO2	interpret the various types of capital markets and its role	K2
CO3	examine the working of SEBI and its functions in India	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply 		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Stock Exchange 1.1 Stock Exchange –Introduction-Meaning and functions of Stock Exchange	K1-K3	2	1-3
	1.2 Depository Services and DEMAT Account		1	
	1.3 Securities and Exchange Board of India (SEBI) - Concept-Structure-Objectives		2	
	1.4 Functions and Power of SEBI		1	

UNIT	CONTENT	CL	HRS	CO
2	Listing of Securities 2.1 Listing of Securities-Meaning, Objectives and Types	K1-K3	5	1-3
	2.2 Requirements and Procedure for Listing		3	
	2.3 Advantages and Disadvantages of Listing		2	
3	Listing Agreements and Delisting 3.1 Compliances under Listing Agreement	K1-K3	3	1-3
	3.2 Delisting-Meaning and Types		3	
	3.3 Procedure for Delisting-Voluntary and Compulsory		4	

BOOKS FOR STUDY

Savithri Parekh, Shailashri Bhaskar, *Handbook On Listing Obligations And Disclosure Requirements (Listing Obligations And Disclosure Requirements Regulations, 2015)* : Mumbai, LexisNexis, 2016
Taxmann, *SEBI Manual*, New Delhi, 2023

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration : 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5x1=5	5 K1 questions	5 K1 questions
B - 50 words	K2	5x2=10	5 K2 questions	7 K2 questions
C – 150 words	K3	2x5=10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components

Total Marks: 25 Assignments/Objective

Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

**General Elective Courses offered by the
Department of Commerce (Corporate Secretaryship) for
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE PROGRAMMES**

SYLLABUS

(Effective from the academic year 2023-2024)

RIGHT TO INFORMATION ACT

CODE: 23CO/GE/RI22

CREDITS:2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE:

- To introduce student to the concept of right to information and consider its implications for human rights.
- To familiarize the students about the constitution and functioning of Central and State Information Commission.
- To acquaint the students about the right to information contained in other statutes.

COURSE LEARNING OUTCOMES

On successful completion of the course the students will be able to

COS	DESCRIPTION	CL
CO1	recognize the significance of the right to information movement.	K1
CO2	explain the objectives of the Right to Information Act 2005	K2
CO3	file the application for information.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Constitutional Framework, Objectives and Importance of the act	K1-K3	2	1-3
	1.2 Fundamental Rights and Directive Principles of State Policy		4	
	1.3 Constitutional Provisions of RTI			

UNIT	CONTENT	CL	HRS	CO
2	Development of RTI in India 2.1 Origin of the RTI Act 2005 in India	K1-K3	4	1-3
	2.2 Initiatives, Movements, Success stories and Challenges		6	
	2.3 RTI and Human Rights			
3	Various Rights 3.1 Right to Hearing, Grievance Redressal	K1-K3	4	1-3
	3.2 Right to Public Services, Transfers and Delays		6	
	3.3 Public Consultation			

BOOKS FOR STUDY

R. Majumdar, *Commentary on The Right to Information Act, 2005*, Dwivedi Law Agency, 2020
Dr. Dewakar Goel & Dr Abha Yadav, *Right to Information - Concept, Procedure & Practice*, Uttar Pradesh: Universal Law Publishing, 2015

BOOKS FOR REFERENCE

Dr. Jyoti Rattan, *Right to Information Act, 2005*, New Delhi: Bharat Publication, 2022
Taxmann,s Bare Acts, *Right to Information Act 2005* Chennai: Taxmann, 2016
S.R.Khaneja, *A Practical Handbook on Right To Information Act*, The Book Line, 2011

WEB SOURCES:

<https://rti.gov.in/> <https://www.iitgn.ac.in/RTI/RTI-Guidelines.pdf>
<https://study.com/academy/lesson/right-to-information-rti-act-impact-in-india.html>

JOURNALS

Journal of Political Sciences & Public Affairs Indian
Journal of Public Administration
Journal of Humanities and Social Science

PATTERN OF ASSESSMENT**Continuous Assessment Test****Total Marks : 25****Duration: 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	$5 \times 1 = 5$	5 K1 questions	5 K1 questions
B - 50 words	K2	$5 \times 2 = 10$	5 K2 questions	7 K2 questions
C – 150 words	K3	$2 \times 5 = 10$	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components**Total Marks: 25**

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**General Elective Courses offered by the
Department of Commerce (Corporate Secretaryship) for
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. / B.S.W. DEGREE PROGRAMMES**

SYLLABUS

(Effective from the academic year 2023-2024)

COMPANY SECRETARIAL CORRESPONDENCE

CODE:23CO/GE/CC22

CREDITS: 2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To enable students to understand the importance of company secretary
- To enlighten the students on the rights and liabilities of Company Secretary
- To provide a comprehensive understanding to students about Company Correspondence

COURSE LEARNING OUTCOME

On the successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the concept of company secretary and secretarial correspondence	K1
CO2	understand the importance and need of company secretary	K2
CO3	outline and Draft The required communication to the stakeholders of a company	K3
	CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply	

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Company Secretary	K1-K3	3	1-3
	1.1 Secretary – Meaning and Types of Secretaries			
	1.2 Company secretary– Definition and Legal Position		2	
	1.3 Rights, Duties and Liabilities of a Company Secretary		3	
	1.4 Qualification, Appointment and Dismissal of a Company Secretary		2	

UNIT	CONTENT	CL	HRS	CO
2	Secretarial Correspondence 2.1 Correspondence relating to Meetings-Before,during and after the meeting.	K1-K3	4	1-3
	2.2 Writing Memos, Circulars and Notices.		2	
	2.3 Electronic Media and Shareholder Communication		2	
3	Correspondence 3.1 To Shareholders–Allotment, Rights Issue and Bonus Issue	K1-K3	2	1-3
	3.2 To Registrar of Companies Alteration of Memorandum and Articles of Association		2	
	3.3 To Stock Exchanges–Listing of Securities		2	
	3.4 To Banks		1	
	3.5 To Government		1	

BOOKS FOR STUDY

Kapoor,N.D.*Company Law and secretarial practice*.New Delhi:Sultan Chand,2016

Tandon,B.N.*Manual Of Secretarial Practice*. New Delhi:Sultan Chand, 2018

BOOKS FOR REFERENCE

S. Srikanth, Shanti Rekha Rajagopal, Revathy Blakrishnan, Corporate Laws and Secretarial Practice,Jain Book

Bahl,J.C.*Secretarial Practice in India*.Mumbai:Tripathi M.N,2006.

Ghosh K Prashanth. *Company Secretarial Practice*. New Delhi: Sultan Chand, 2007.

Sherlekhar,S.A.*Company Secretarial Practice*.New Delhi:Kitab Mahal,2006.

WEB SOURCES

www.ddegjust.ac.in

www.legalserviceindia.com

www.businesscommunicationarticles.com

JOURNAL

Company and Securities Law

Journal Company law journal

Company News And Reports

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration : 60 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5x1=5	5 K1 questions	5 K1 questions
B - 50 words	K2	5x2=10	5 K2 questions	7 K2 questions
C – 150 words	K3	2x5=10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components**Total Marks: 25****Assignments/Objective Test/Quiz/Presentation****No End Semester Examination**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600080

B.Com. DEGREE: CORPORATE SECRETARYSHIP

SYLLABUS

(Effective from the academic year 2023–2024)

COMPENSATION MANAGEMENT

CODE: 23CO/UI/CM23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To acquaint students with basic compensation concepts
- To provide to the students various dimensions of Compensation Management
- To enable students to understand the legal provisions relating to employee benefits
- To familiarize students on Workmen's compensation Act 1923
- To expose and apply the Wage structure in real time industries

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	understand the concepts on wage payments	K1
CO2	identify the internal and external environment factor which impact the salary structure	K2
CO3	relate compensation management to behavioral theories and concepts	K3
CO4	comprehend the provisions relating to compensation management	K4
CO5	design rational and contemporary compensation systems in modern organizations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	CO
1	Wage and Salary Administration 1.1 Concept of Wages and Salary, Theories of Wage	K1-2	1-2
	1.2 Types of wages, Components of wages	K1-4	1-4
	1.3 Factors determining wages, Principles of wage administration		
2	Wage Legislations 2.1 Principles of Equal Pay for Equal work	K1-5	1-5
	2.2 Job Evaluation – Definition , Objectives,		

UNIT	CONTENT	CL	CO
	2.3 Methods, Classification, Factor Comparison Method and Point Method of Job Evaluation		
3	Compensation Classification 3.1 Types - Incentives, Fringe Benefits	K1-2	1-2
	3.2 Strategic Compensation Planning	K1-5	1-5
	3.3 Determining Compensation		
4	Wage Structure 4.1 Wage Fixation – Flat Rate, Merit Rate, Wage Surveys.	K1-3	1-3
	4.2 Wage Payment – Wage Payment Policies - Wage Payment Systems – Wage Incentive Plans, Blue Collar Employees, White Collar Employees.	K1-5	1-5
5	Workmen’s Compensation Act, 1923 5.1 Object, Scope and Coverage of the Act	K1-2	1-2
	5.2 Definitions – Dependent, Employer, Partial and Total Disablement, Workmen Injury Accident	K1-4	1-4
	5.3 Rules Regarding Employee Compensation		
	5.4 Amount and Distributions of Compensation, Notice and Claim	K1-5	1-5

BOOKS FOR STUDY

Kapoor .N.D. *Elements of Industrial law* , Sultan Chand and Sons ,New Delhi, 2017
Singh, B.D *Compensation & Reward Management. Excel Book*, New Delhi, 2016
Gupta. C.B. *Human Resource Management*, Sultan Chand Publishers, New Delhi, 2017
George.T. Milkovich, *Compensation:special Indian edition*, McGraw Hill,2017

WEB SOURCES

<https://www.hr-guide.com/data/G400.html>
[www. mca.gov.in](http://www.mca.gov.in)

JOURNALS

Journal of Commerce
Journal of Management
Journal of Compensation Management

PATTERN OF ASSESSMENT

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

**B.Com. DEGREE
HONOURS
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

SYLLABUS
(Effective from the academic year 2023 - 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

DEPARTMENT OF COMMERCE – SHIFT II

BACHELOR OF COMMERCE – HONOURS

PROGRAMME DESCRIPTION

B.Com (Hons.) - ACCA, is a three year under graduate programme introduced in the academic year 2020-21. This Programme integrates a bachelor's programme in Commerce with the globally recognized ACCA Certification, offered by the Association of Chartered Certified Accountants, UK. ACCA qualification helps students to become a Finance Professional with relevant and up-to-date knowledge and understanding required of future Strategic Professional Accountant in any industry. Students are given from ACCA, an exemption for 9 papers out of 13 papers and are provided training to enable them complete the 4 professional papers and become ACCA Affiliates along with the B.Com Hons. Degree.

The Programme is designed to provide students with a wide range of skills - managerial and professional, with an application oriented approach, which meets the industry demand. It facilitates the students to acquire broad and practical knowledge in the areas of Finance, Accounting, Management, Law and Marketing. Internship is an integral part of the B.Com (Hons) Programme, students are required to do an internship at the end of each semester. It plays a vital role in applying theoretical knowledge and gaining practical exposure. The programme enhances practical knowledge and employability through real-time simulation based projects.

B.Com Hons is an intensive programme with 172 credits, which augments the ability of the students in multiple avenues. It develops the students' analytical ability, communication skills and creative thinking, preparing the students for direct entry to business careers, entrepreneurship ventures and research through maximised industry interface.

VISION OF THE DEPARTMENT

In consistent with the vision of the College, we are in pursuit of excellence in Commerce, by providing a vibrant and innovative Centre of Learning for the students to realize their potential and facilitate them to become business leaders and entrepreneurs with essential virtues of 'Truth and Charity' thereby upholding the motto of the College.

MISSION OF THE DEPARTMENT

Our mission is to excel as a transformational leader in Commerce, by equipping the students with sound theoretical knowledge and application skills to surge ahead in their career, adequately moulding them to meet the challenges of the emerging "Knowledge Society" besides inculcating humane values in them for the well-being of the society.

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

PROGRAMME SPECIFIC OUTCOMES (PSOS)

On successful completion of the B.Com. Honours Programme, the students will be able to

PSO 1	acquire relevant, forward-thinking business and finance skills required to meet innovation and change
PSO 2	develop competencies on financial reporting with respect to value-centric aspects of business
PSO 3	demonstrate cross-sector accounting and finance knowledge, skills, professional and ethical values needed in all organisations
PSO 4	communicate the impact of changes and potential changes in accounting regulation on financial reporting
PSO 5	apply appropriate strategic management techniques in evaluating and improving sustainability in business and environment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Com. Honours 2023 - 2024 Shift II														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4									6	8
Part - II														
English	3	4	3	4									6	8
											Total		12	16
Part - III														
Major Core	4	5	4	5	4	5	4	5	5	5	5	5	26	30
	4	5	4	5	4	4	4	5	4	5	4	5	24	29
	4	4	4	4	4	4	4	5	4	5	4	5	24	27
	4	4			4	4	4	5	4	4	4	4	20	21
					4	4	4	4	4	4	4	4	16	16
									4	4	8	4	12	8
Internship	2		4		2		4		2				14	0
Allied Core			5	5	5	5							10	10
											Total		146	141
Part - IV														
GE / Tamil			2	2	2	2							4	4
Value Education	2	2			2	2							4	4
Soft Skills (dept.)		2						2		2			0	6
Soft Skills (VE)											3	3	3	3
Environmental Studies							2	2					2	2
											Total		13	19
Part - V														
STP	1												1	0
SAP / SL													0	0
Remedial / Library								1					0	1
Mentoring				1				1		1			0	3
											Total		1	4
Total	27	30	29	30	31	30	26	30	27	30	32	30	172	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**B.Com. DEGREE: HONOURS - SHIFT II****COURSES OF STUDY****(Effective from the Academic Year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23BH/MC/FC14	Financial Accounting Concepts	4	4	1	0	3	50	50	100
23BH/MC/CL14	Commercial Law	4	4	0	0	3	50	50	100
23BH/MC/SB14	Statistics for Business	4	4	1	0	3	50	50	100
23BH/MC/MD14	Management and its Dimensions	4	4	0	0	3	50	50	100
23BH/MC/IN12	Internship	2							100
23BH/SS/FC10	Financial Communication	0	2				50		100
CD / ET / SC	Value Education								
SEMESTER-II									
23BH/MC/FA24	Financial Accounting	4	4	1	0	3	50	50	100
23BH/MC/CO24	Corporate Law	4	4	0	0	3	50	50	100
23BH/MC/CA24	Cost Accounting	4	4	1	0	3	50	50	100
23BH/AC/BE25	Business Economics	5	5	0	0	3	50	50	100
23BH/MC/IN24	Internship	4							100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23BH/MC/BF34	Banking and Financial Services	4	4	0	0	3	50	50	100
23BH/MC/MM34	Marketing Management	4	4	0	0	3	50	50	100
23BH/MC/AA34	Auditing and Assurance	4	4	0	0	3	50	50	100
23BH/MC/CT34	Cost Accounting Techniques	4	4	1	0	3	50	50	100
23BH/MC/HR34	Human Resource Management	4	4	0	0	3	50	50	100
23BH/AC/MC35	Mathematics for Commerce	5	5	0	0	3	50	50	100
23BH/MC/IN32	Internship	2							100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23BH/MC/CN44	Corporate Governance	4	4	0	0	3	50	50	100
23BH/MC/MA44	Management Accounting and Control	4	4	1	0	3	50	50	100
23BH/MC/DT44	Direct Taxation	4	4	1	0	3	50	50	100
23BH/MC/FM44	Financial Management	4	4	1	0	3	50	50	100
23BH/MC/SC44	Strategic Management Concepts	4	4	1	0	3	50	50	100
23BH/MC/IN44	Internship	4	0	0	0	0	0	0	100
23BH/SS/BE40	Board Room Etiquette	0	2	0	0	0	0	0	0
23BH/GC/ES42	Environmental Studies	2	2	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**B.Com. DEGREE: HONOURS - SHIFT II****COURSES OF STUDY****(Effective from the Academic Year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-V									
23BH/MC/CB54	Computer Applications in Business(fully practical)	4	0	1	4	3	50	50	100
23BH/MC/CG55	Corporate Accounting	5	5	0	0	3	50	50	100
23BH/MC/PM54	Performance Management	4	4	1	0	3	50	50	100
23BH/MC/BP54	Business Policy and Environment	4	4	0	0	3	50	50	100
23BH/MC/RM54	Research Methodology	4	4	0	0	3	50	50	100
23BH/MC/SD54	Strategic Management Dynamics	4	4	0	0	-	50	-	100
23BH/MC/IN52	Internship	2							100
23BH/SS/CC50	Corporate Communication	0	2						
SEMESTER-VI									
23BH/MC/IA64	Investment Analysis and Appraisal	4	4	1	0	3	50	50	100
23BH/MC/EP64	Entrepreneurship	4	4	0	0	3	50	50	100
23BH/MC/CR64	Corporate Reporting	4	4	1	0	3	50	50	100
23BH/MC/BV65	Business Valuation and Restructuring	5	5	0	0	3	50	50	100
23BH/MC/AC64	Accounting for Corporate Re-organisation	4	4	0	0	3	50	50	100
23BH/MC/PR68	Project	8	0	0	4				100
23VE/SS/HL63	Life Skills: An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

DEPARTMENT OF COMMERCE – SHIFT II

BACHELOR OF COMMERCE – HONOURS

PROGRAMME DESCRIPTION

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STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600 086

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On successful completion of the B.Com. Honours Programme, the students will be able to

PSO 1	acquire relevant, forward-thinking business and finance skills required to meet innovation and change
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											Total		12	16
Part - III														
Major Core	4	5	4	5	4	5	4	5	5	5	5	5	26	30
	4	5	4	5	4	4	4	5	4	5	4	5	24	29
	4	4	4	4	4	4	4	5	4	5	4	5	24	27
	4	4			4	4	4	5	4	4	4	4	20	21
					4	4	4	4	4	4	4	4	16	16
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Internship	2		4		2		4		2				14	0
Allied Core			5	5	5	5							10	10
											Total		146	141
Part - IV														
GE / Tamil			2	2	2	2							4	4
Value Education	2	2			2	2							4	4
Soft Skills (dept.)		2						2		2			0	6
Soft Skills (VE)											3	3	3	3
Environmental Studies							2	2					2	2
											Total		13	19
Part - V														
STP	1												1	0
SAP / SL													0	0
Remedial / Library								1					0	1
Mentoring				1				1		1			0	3
											Total		1	4
Total	27	30	29	30	31	30	26	30	27	30	32	30	172	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Com. DEGREE: HONOURS - SHIFT II

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

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23BH/MC/MD14	Management and its Dimensions	4	4	0	0	3	50	50	100
23BH/MC/IN12	Internship	2							100
23BH/SS/FC10	Financial Communication	0	2				50		100
CD / ET / SC	Value Education								
SEMESTER-II									
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23BH/MC/CA24	Cost Accounting	4	4	1	0	3	50	50	100
23BH/AC/BE25	Business Economics	5	5	0	0	3	50	50	100
23BH/MC/IN24	Internship	4							100
	General Elective I / Basic Tamil I								
SEMESTER-III									
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23BH/MC/HR34	Human Resource Management	4	4	0	0	3	50	50	100
23BH/AC/MC35	Mathematics for Commerce	5	5	0	0	3	50	50	100
23BH/MC/IN32	Internship	2							100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23BH/MC/CN44	Corporate Governance	4	4	0	0	3	50	50	100
23BH/MC/MA44	Management Accounting and Control	4	4	1	0	3	50	50	100
23BH/MC/DT44	Direct Taxation	4	4	1	0	3	50	50	100
23BH/MC/FM44	Financial Management	4	4	1	0	3	50	50	100
23BH/MC/SC44	Strategic Management Concepts	4	4	1	0	3	50	50	100
23BH/MC/IN44	Internship	4	0	0	0	0	0	0	100
23BH/SS/BE40	Board Room Etiquette	0	2	0	0	0	0	0	0
23BH/GC/ES42	Environmental Studies	2	2	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**B.Com. DEGREE: HONOURS - SHIFT II****COURSES OF STUDY****(Effective from the Academic Year 2023-2024)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-V									
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23BH/MC/CG55	Corporate Accounting	5	5	0	0	3	50	50	100
23BH/MC/PM54	Performance Management	4	4	1	0	3	50	50	100
23BH/MC/BP54	Business Policy and Environment	4	4	0	0	3	50	50	100
23BH/MC/RM54	Research Methodology	4	4	0	0	3	50	50	100
23BH/MC/SD54	Strategic Management Dynamics	4	4	0	0	-	50	-	100
23BH/MC/IN52	Internship	2							100
23BH/SS/CC50	Corporate Communication	0	2						
SEMESTER-VI									
23BH/MC/IA64	Investment Analysis and Appraisal	4	4	1	0	3	50	50	100
23BH/MC/EP64	Entrepreneurship	4	4	0	0	3	50	50	100
23BH/MC/CR64	Corporate Reporting	4	4	1	0	3	50	50	100
23BH/MC/BV65	Business Valuation and Restructuring	5	5	0	0	3	50	50	100
23BH/MC/AC64	Accounting for Corporate Re-organisation	4	4	0	0	3	50	50	100
23BH/MC/PR68	Project	8	0	0	4				100
23VE/SS/HL63	Life Skills: An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

FINANCIAL ACCOUNTING CONCEPTS

CODE: 23BH/MC/FC14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students acquire knowledge of the basic concepts of Accounting
- To impart skills necessary for recording various kinds of business transactions
- To educate students on the preparation of final accounts from incomplete records
- To expose students to the possible errors in the accounting statements and the ways to rectify them
- To enable students to prepare the financial statements

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the accounting standards in the preparation of financial statements and reporting the financial performance of a business concern	K1, K2
CO2	compile the financial information of a business concern in the preparation of financial statements	K3
CO3	analyse financial information to make decisions about investments, financing and operating activities	K4
CO4	evaluate the financial position of a business concern	K5
CO5	build financial statements in accordance with accounting standards	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Theoretical Framework of Accounting			
	1.1 Meaning of Accounting, Functions, Advantages and Limitations	K1-K2	1	1
	1.2 Introduction to IFRS and IndAS – Regulatory Framework and Conceptual Framework	K1-K2	2	1
	1.3 Basic Concepts of Accounting – Going Concern, Prudence Concept, Materiality, Substance Over Form, Business Entity Concept, Accruals, Consistency	K1-K3	2	1-2
	1.4 Main Elements of Financial Statements – Assets, Liabilities, Equity, Revenue and Expense	K1-K3	2	1-2
	1.5 Recording Transactions and Events 1.5.1 Sales and Purchases	K1-K5	1	1-4
	1.5.2 Cash, Inventory and Biological Assets – Tangible and Intangible Assets Accruals and Prepayments, Provisions and Contingencies	K1-K5	2	1-4
2	2.1 Preparation of Basic Financial Statements			
	2.1.1 Accounting Equation	K1-K4	2	1-3
	2.1.2 Preparation of Trial Balance	K1-K5	2	1-4
	2.1.3 Preparation of Financial Statements Extracts	K1-K5	2	1-4
	2.1.4 Preparation of Basic Financial Statements – SOPL, SOFP, SOCF, Disclosure Notes	K1-K6	4	1-5
	2.2 Case Study – Journal Entry for Preparation of Basic Financial Statements of a Listed Company	K1-K6	3	1-5
3	3.1 Final Accounts of Sole-Proprietorship			
	3.1.1 Preparation of the Final Accounts of Sole Proprietor	K1-K5	6	1-4
	3.1.2 Closing and Adjusting Entries	K1-K5	4	1-4
	3.2 Correction of Errors – Types of Errors, Journal Entries for Correction, Impact on the Financial Statements	K1-K4	5	1-3

UNIT	CONTENT	CL	HRS	CO
4	Bank Reconciliation Statement, Depreciation and Control accounts			
	4.1 Bank Reconciliation Statement – Favourable Balance and Overdraft, Adjustment of Cash Book	K1-K4	6	1-3
	4.2 Depreciation – Straight Line Method and Diminishing Balance Method, Disposal of Depreciable Assets, Change of Method	K1-K4	4	1-3
	4.3 Control Accounts – Preparation of Control Accounts for Receivables and Payables	K1-K6	5	1-5
5	Accounting from Incomplete Records			
	5.1 Introduction	K1	2	1
	5.2 Problems on Preparation of Final Accounts of Proprietary Trading Concern (Conversion Method)	K1-K5	5	1-4
	5.3 Case Study	K1-K6	5	1-5

BOOKS FOR STUDY

ACCA BPP Financial Accounting (FA)

Reddy, T.S and Murthy, A., *Financial Accounting*, Margham Publications, Chennai, 2023

Gupta R.L. and Radhaswamy M., *Advanced Accountancy (Vol.1)*, Sultan Chand & Sons, New Delhi, 2018

BOOKS FOR REFERENCE

ACCA Kaplan Financial Accounting (FA)

Goyal, V.K. and Goyal, Ruchi, *Financial Accounting*, PHI Learning, 4th Edition, New Delhi, 2022

Jain S.P and Narang K.L, *Advanced Accountancy (Part I)*, New Delhi: Kalyani Publishers, 2018

JOURNALS

Indian Journal of Finance

International Journal of Research in Commerce and Management

Management Accountant - The ICWA of India

WEB RESOURCES

www.icaai.org

www.cimaglobal.com

www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/FC14												
	Course Title: FINANCIAL ACCOUNTING CONCEPTS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	1	1	2	3	2	3	1
CO 2	3	2	2	2	2	1	2	1	3	3	2	2	2
CO 3	3	2	2	2	2	2	1	1	3	2	2	2	1
CO 4	3	2	1	2	1	2	2	1	3	2	2	1	2
CO 5	3	2	2	2	2	3	2	1	3	2	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

COMMERCIAL LAW

CODE: 23BH/MC/CL14

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To identify the essential elements of different legal systems and explain the roles of international organisations in the promotion and regulation of international trade
- To expose students to the different types of contracts
- To familiarise students with the appropriate legal rules applicable under the United Nations Convention on Contracts for the International Sale of Goods
- To enable students to understand the various ways in which international business transactions can be funded
- To sensitize on the legal rights, duties and obligations arising out of business transactions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the fundamental principles of commercial law including legal systems and international regulations.	K1, K2
CO2	apply the key concepts and principles of commercial law	K3
CO3	analyse legal cases and scenarios with the help of relevant legal provisions	K4
CO4	assess the effectiveness and validity of legal arguments and decisions related to commercial law and evaluate the legal potential outcomes of legal disputes	K5
CO5	develop strategies and solutions for complex business challenges	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Essential elements of the legal system			
	1.1 Business, Political and Legal systems	K1-K2	2	1
	1.2 International Trade, International Legal Regulation and Conflict of Laws	K1-K3	3	1-2
	1.3 Alternative Dispute Resolution Mechanisms	K1-K4	3	1-3
2	Contract Act			
	2.1 Meaning and Types of Contract	K1-K4	2	1-3
	2.2 Essentials of a Valid Contract, Offer and Acceptance, Consideration, Capacity of Parties, Legality of Object	K1-K6	4	1-5
	2.3 Performance of Contract	K1-K4	3	1-3
	2.4 Discharge of Contract, Remedies for Breach of Contract	K1-K6	3	1-5
3	3.1 International business transactions			
	3.1.1 UN Convention on Contracts for the International Sale of Goods	K1-K3	1	1-2
	3.1.2 ICC Incoterms	K1-K2	1	1
	3.2 Transportation and Payment of International Business Transactions – An Overview	K1-K5	1	1-4
	3.2.1 Transportation Documents including the Bill of Lading			
	3.2.2 International Bank Transfer	K1-K2	2	1
	3.2.3 International Promissory Notes	K1-K3	1	1-2
	3.2.4 Letter of Credit	K1-K3	1	1-2
	3.3 Sale of Goods Act	K1-K3	2	1-2
	3.3.1 Essentials of a Contract of Sale			
	3.3.2 Conditions and Warranties	K1-K4	1	1-3
	3.3.3 Transfer of Ownership and Delivery of Goods	K1-K6	1	1-5
	3.3.4 Rights of an Unpaid seller	K1-K5	1	1-4

UNIT	CONTENT	CL	HRS	CO
4	Agency Law 4.1 Meaning and Types of Agents	K1-K2	2	1
	4.2 Formation of an Agency Contract	K1-K3	2	1-2
	4.3 Rights and Duties of an Agent, and Principal	K4-K5	3	1-4
	4.4 Termination of an Agency Contract	K1-K6	3	1-5
5	Limited Liability Partnership Act, 2008 (LLP) 5.1 Salient Features of LLP	K1-K2	1	1
	5.2 Difference Between LLP, Partnership and a Company	K1-K4	1	1-3
	5.3 Incorporation- Incorporation by Registration, Registered office of LLP and Change of Name, Partners and their relations	K1-K5	2	1-4
	5.4 Extent and Limitation of Liability of LLP and Partners	K1-K5	2	1-4
	5.5 Conversion to LLP, Winding Up and Dissolution	K1-K3	2	1-2
	5.6 Case Study	K1-K6	2	1-5

BOOKS FOR STUDY

ACCA BPP Corporate and Business Law (LW-GLO)

Kapoor N.D. *Elements of Mercantile Law*. Sultan Chand, New Delhi, 2020.

Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, Sultan Chand, New Delhi, 2013

BOOKS FOR REFERENCE

ACCA Kaplan Corporate and Business Law (LW-GLO)

Balachandran, V and Thothadri. *Business Law*. Tata McGraw Hill, 2021.

Chadha P.R. *Business Law*. 7th Edition, Galgotia, New Delhi, 2017.

Gogna P.P.S. *Mercantile Law*. 3rd Edition, Sultan Chand, New Delhi, 2014

Pandit M.S. and Shoba Pandit. *Business Law*. Himalaya, Mumbai, 2010

JOURNALS

Indian Journal of Law and Technology

Symbiosis Contemporary Law Journal

WEB RESOURCES

www.unesco.org/new/en/unesco/
www.lawctopus.com/
www.indialawworld.Co
www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/CL14												
	Course Title: COMMERCIAL LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	1	1	1	2	3	1	1	1	1
CO 2	3	3	3	1	1	1	1	2	3	1	2	1	1
CO 3	3	3	3	1	1	1	1	1	3	1	1	1	1
CO 4	3	3	3	1	1	1	1	1	3	1	2	1	2
CO 5	3	3	3	1	1	1	1	1	3	1	1	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

STATISTICS FOR BUSINESS

CODE: 23BH/MC/SB14

CREDITS:4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVE OF THE COURSE

- To provide students with an understanding of the data and its relevance in business
- To enable students to deal with numerical and quantitative issues in Business
- To provide a practical exposure on the various statistical methods and to arrive at rational decision through systematic analysis and interpretation
- To educate on the effective and efficient application of various statistical tools associated with research in business fields
- To familiarise students with the applications of statistical techniques for business decisions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	comprehend the computation and significance of the statistical parameters	K1, K2
CO2	apply statistical techniques in problem solving	K3
CO3	examine the statistical techniques used for measuring and analysing business trends	K4
CO4	estimate the future values by studying the relationship between variables	K5
CO5	develop solutions and judgements for hypothetical situations	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Descriptive Statistics			
	1.1 Data types – Univariate Summaries	K1-K4	2	1-3
	1.2 Multivariate Summaries - Karl Pearson Co-efficient of correlation	K1-K4	3	1-3
	1.3 Partial Correlation of First Order and Second Order Co-efficient	K1-K4	3	1-3
	1.4 Co- efficient of Multiple Correlations	K1-K4	2	1-3
2	Test of Hypothesis			
	2.1 Procedure for Testing Hypothesis	K1-K2	2	1
	2.2 Parametric and Non-Parametric Approaches	K1-K2	2	1
	2.3 Test of Significance	K1-K6	7	1-5
	2.4 Variance Ratio Test 2.4.1 One-way Classification Model	K1-K6	2	1-5
	2.4.2 Two-way Classification Model	K1-K6	2	1-5
3	Categorical Data and Chi-square test			
	3.1 Introduction to Categorical Data	K1-K2	2	1
	3.2 Meaning and Conditions for applying Chi- Square Test	K1-K2	2	1
	3.3 Application of Chi Square Test - Test of Goodness of Fit and Test of Independence - Yates Correction	K1-K5	6	1-4
	3.4 Case Study	K1-K6	5	1-5
4	Regression Models			
	4.1 Properties of Regression coefficients and regression lines	K1-K2	4	1
	4.2 Simple Linear Regression	K1-K5	6	1-4
	4.3 Multiple Linear Regression	K1-K6	5	1-5
5	Analysis of Time Series			
	5.1 Utility and Components of Time Series	K1-K2	2	1
	5.2 Methods of Measuring Trend	K1-K6	4	1-5
	5.3 Measurement of Seasonal Variations	K1-K6	4	1-5

BOOKS FOR STUDY

Gupta S.P., Statistical Methods, Sultan Chand, New Delhi, 2019

Agresti, A. Categorical data analysis *Vol. 482). John Wiley & Sons, 2012

Montgomery, D.C., Peck, E.A. & Vining, G.G. Introduction to linear regressions analysis (Vol. 821). John Wiley & Sons. 2012

BOOKS FOR REFERENCE

Agarwal Y.P., Statistical Methods, Concepts, Applications and Computations, Sterling, New Delhi, 2012.

Beri, G.C., Business Statistics, Tata Mc Graw Hill , New Delhi, 2017

Pillai, R.S.N. & Bagavathy, V., Statistics, 13th edition, Sultan Chand, New Delhi, 2019

Sanchetti, V.C., & Kapoor, Business Statistics, 7th edition, Sultan Chand, New Delhi, 2010

Sharma J.K., Business Statistics, 1st edition, Pearson Education, New Delhi, 2020

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsor y case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	$1 \times 15 = 15$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	$1 \times 15 = 15$	1 K6 question	1 K6 question
	Total	100	15	17

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/SB14												
	Course Title: STATISTICS FOR BUSINESS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	1	1	2	1	1	3	2	2	1	1
CO 2	3	3	3	1	3	2	1	1	3	2	2	1	1
CO 3	3	3	3	1	3	3	2	2	3	3	2	2	1
CO 4	3	3	3	1	2	1	1	1	3	2	2	2	2
CO 5	3	3	3	1	2	2	1	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

MANAGEMENT AND ITS DIMENSIONS

CODE: 23BH/MC/MD14

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To provide a comprehensive understanding of the principles of management
- To familiarise students with the current management practices
- To educate students on the types of business environment and their significance
- To enable students to practice critical and creative thinking to improve the decision making process
- To expose students to the generic management structures and the recent developments in management techniques

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	describe the fundamental concepts in management	K1,K2
CO2	apply management theory as related to management function	K3
CO3	analyse the various functions in managing the business	K4
CO4	acquire practical management skills necessary for higher organisational positions	K5
CO5	develop business strategies and concepts appropriate to business situations	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning, Definition, Nature, Importance and Characteristics of Management	K1	2	1
	1.2 Management as Art, Science and Profession	K1-K2	3	1
	1.3 Social Responsibility and Ethics – Concept, Nature, Responsibility towards Different Groups, Strategies, Social Audit and Business Ethics and Profession	K1-K4	3	1-3
2	2.1 Contributions of Experts to Management Theory 2.1.1 Stalwarts of Management Thoughts – Fayol, Taylor, Elton Mayo, Drucker, C.K.Prahalad, and Tom Peters	K1-K4	2	1-3
	2.2 Planning 2.2.1 Planning – Meaning, Definition, Importance and Types of Planning	K1-K4	1	1-3
	2.2.2 Methods and Types of Plans	K1-K4	2	1-3
	2.3 Organising 2.3.1 Meaning, Nature, Importance and types of Organising	K1-K5	1	1-4
	2.3.2 Theories of Organization – Classical, Neo Classical, Modern and Contingency theory; Mintzberg organisation structure	K1-K6	2	1-5
	2.3.3 Departmentation, Delegation and De centralization – Meaning, Importance and Types	K1-K6	2	1-5
3	Staffing and Directing 3.1 Staffing 3.1.1 Recruitment and Selection	K1-K3	1	1-2
	3.1.2 Training – Need, Types of Employee Training	K1	1	1
	3.2 Directing 3.2.1 Motivation – Meaning, Maslow’s Theory, Herzberg’s two-factor theory, Victor Vroom Expectancy model, McGregor’s theory	K1-K5	2	1-4

UNIT	CONTENT	CL	HRS	CO
	3.2.2 Leadership – Meaning, Nature, Importance, Functions, Types or Styles of leadership; Theories of leadership including , Blake and Mouton’s framework, Feidler’s theory	K1-K5	2	1-4
	3.2.3 Communication – Meaning, Nature, Process, Importance, Types or Channels (Y, Wheel, Circle and Chain), Methods and Barriers to Communication	K1-K4	2	1-3
	3.3 Case Study	K1-K6	2	1-5
4	Business Environment			
	4.1 Meaning and Types of Business	K1-K4	3	1-3
	4.2 Meaning and Types of Stakeholders, Mendelow’s Stakeholder Mapping	K1-K5	8	1-4
	4.3 PESTEL Analysis of External Environment (An Overview)	K1-K5	3	1-4
5	Business structure			
	5.1 Generic Business Structures – Entrepreneurial, Functional, Divisional, Boundaryless	K1-K2	2	1
	5.2 Informal Organisation – Meaning, Benefits and Barriers	K1-K4	1	1-3
	5.3 Departments in an Organisation – R&D, Purchase, Production/Service, HR	K1-K4	1	1-3
	5.4 Finance Function in an Organisation – Accounts, Costing, Financial Management	K1-K4	2	1-3
	5.5 Recent Trends in Management: 5.5.1 Change Management – Meaning and Process	K1-K5	2	1-4
	5.5.2 Challenges – Current Challenges and Overcoming Challenges	K1-K6	2	1-5

BOOKS FOR STUDY

ACCA BPP Business and Technology (BT)

Gupta, C. B., *Business Management*, Sultan Chand and Sons, New Delhi, 2018.

BOOKS FOR REFERENCE

ACCA Kaplan Business and Technology (BT)
Dinakar Pagare, *Business Management*, 5th edition, Sultan Chand, New Delhi, 2018
Gupta, N.S. and Alka Gupta, *Essentials of Management*, New Delhi, Anmol, 2010
Harold Koontz, Hein Weihrich, *Essentials of Management*, 6th edition, Tata McGraw Hill, New Delhi, 2019
Manmohan, Prasad, *Management Concepts and Practices*, Mumbai, Himalaya, 2019
Prasad L.M., *Principles and Practice of Management*, Sultan Chand, New Delhi, 2021
Sivarethinamohan R. and Aranganathan P, *Principles of Management*, Chennai, CBA, 2008

JOURNALS

European Journal of Business Management
International Journal of Management Reviews

WEB RESOURCES

www.exed.hbs.edu
www.hbr.org

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/MD14												
	Course Title: MANAGEMENT AND ITS DIMENSIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	2	1	1	1	1	2	1	1	1	1
CO 2	3	3	3	2	2	1	1	1	1	1	1	2	2
CO 3	2	2	2	1	1	1	1	1	2	1	1	2	1
CO 4	2	2	2	1	2	1	2	2	3	1	2	1	2
CO 5	2	2	2	1	2	1	1	1	2	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNSHIP

CODE: 23BH/MC/IN12

CREDITS: 2

Internship is an integral part of the B.Com. (Hons) Programme. To enable students to face the challenges of the business world, Internship Training is important. It plays a vital role in implementing theoretical knowledge and gaining practical exposure from the industry/organisation.

COURSE OUTCOMES FOR INTERNSHIP

- Apply theoretical knowledge gained in academic courses to real-world situations.
- Develop a better understanding of workplace dynamics, professional etiquette, and industry standards
- Build valuable connections for future career opportunities

OBJECTIVES OF INTERNSHIP

- To integrate theory and practise
- To gain working experience in a real working environment
- To engage in teams for execution of work assigned
- To widen their social and cultural experience
- To expose students to a wide spectrum of professional services in the field of commerce
- To gain insight on organization structure and its roles and responsibilities
- To help students identify and develop professional skills

Number of Credits

Students are expected to get a total of 14 credits in the six semesters. In the odd semesters the number of credits allotted is 2 per semester and even semesters at the rate of 4 per semester.

GUIDELINES:

- The student will undergo practical training in a reputed organization for 30 hours in the odd semester and 60 hours in the even semester
- The student is expected to work in the Finance department at least for 20/40 hours and the remaining 10/20 hours in other departments
- The student is required to maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
Hours worked, Nature of work performed, Signature of the supervisor
- A final consolidated report to be submitted to faculty advisor

Preparation of Final Report

The report should have a minimum of 25/50 pages detailing the work assigned and performed in the organization - Introduction of the Organisation/ Practical Aspects of Internship - Experience/Suggestions/Challenges/Conclusion

Pattern of Evaluation

Log book 20 marks

Project report & viva 80 marks

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/IN12												
	Course Title: INTERNSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Com. HONOURS DEGREE

SYLLABUS

(Effective from the academic year 2023 – 2024)

FINANCIAL COMMUNICATION

CODE: 23BH/SS/FC10

CREDITS: 0

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide students with an overview of financial communication
- To educate students on the need for dissemination of true and fair information
- To expose students to the current financial communication practices
- To provide students with an insight into the risks, opportunities and expectations of financial communication

COURSE LEARNING OUTCOME

On successful completion of the course, the students will be able to

- Set up their financial goals
- Identify their risk appetite
- Choose the areas of investment
- Formulate their financial plan

Unit 1

(8 hours)

General Principles of Financial Communication

- 1.1 Financial Communication – Meaning
- 1.2 Principle of Equal Access to Information, Principle of Consistency
- 1.3 Dissemination of Accurate, True and Fair Information and Regulatory Information
- 1.4 Financial Communication Language

Unit 2

(10 hours)

Framework for Financial Communication

- 2.1 Disclosures of Periodic Information, Estimates or Prospective Information
- 2.2 Events Associated with a Company's Business, Events Affecting Shareholding Structure
- 2.3 Risks and Litigation
- 2.4 Rumours and Leaked Information

Unit 3

(8 hours)

Financial Communication Practices

- 3.1 Calendar and Organization
- 3.2 Financial Marketing and Targeting
- 3.3 Implementation of Financial Communication
- 3.4 Providing Management with Feedback on Market Perceptions

BOOKS FOR STUDY

Laskin, Alexander V, *The Handbook of Financial Communication and Investor Relations*, Wiley-Blackwell, 2017
Prat, Bredin, *Financial Communication: Framework and Practices*, Cliff Investor Relations, 2018

BOOKS FOR REFERENCE

Half, Gregor, *Introduction to Financial Communication*, Routledge Publications, 2017
Westbook, Ian, *Strategic Financial and Investor Communication*, Routledge Publications, 2014
Damodaran, A., *Narrative and Numbers: The Value of Stories in Business*, Columbia University Press, 2017

JOURNALS

Journal of Financial Markets
International Journal of Strategic Communication

WEB RESOURCES

www.thefcs.org
www.rmit.edu

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 mins

Section A $7 \times 2 = 14$ (no choice)
Section B $2 \times 8 = 16$ (from a choice of three)
Section C $1 \times 20 = 20$ (from choice of two)

Other Components

Total Marks: 50

Evaluation Mode:
Case studies/Class Presentation/Group Discussion/Assignment

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

FINANCIAL ACCOUNTING

CODE: 23BH/MC/FA24

CREDITS: 4

L T P 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To comprehend the accounting procedures for different transactions as per IFRS
- To understand the need for branch and departmental accounts
- To analyse and interpret financial statements
- To familiarise the methods of accounting of different sectors
- To introduce non -financial Interpretations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand accounting for leases and investment	K1, K2
CO2	Apply financial accounting concepts in the preparation of final accounts for different entities	K3
CO3	Analyse the financial position of non-profit organisations	K4
CO4	Evaluate and interpret financial statements to make informed decisions	K5
CO5	Estimate company's financial performance using financial statements	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Branch and Departmental Accounts			
	1.1 Types of Branches - Dependent Branches – Features	K1-K2	1	1
	1.2 Supply of Goods at Cost Price - Invoice Price	K1-K3	2	1-2
	1.3 Branch Account in the books of Head Office (Debtors System Only)	K3-K5	2	2-4

UNIT	CONTENT	CL	HRS	CO
	1.4 Departmental Accounts – Objectives, Basis of Allocation of Expenses	K1-K2	1	1
	1.5 Trading and Profit and Loss Account in Columnar Form	K3-K5	2	2-4
	1.6 Inter Departmental Transfers at Invoice Price	K5	2	4
2	Accounting for Non-profit Entities 2.1 Non-profit Entities – Meaning, Features	K1-K2	3	1
	2.2 Receipts and Payments Account	K1-K6	4	1-5
	2.3 Income and Expenditure Account		3	
3	3.1 Accounting for Tangible Non-Current Assets – Meaning of Cost, Initial Measurement, Depreciation Methods, Distinction between Assets and Expenses	K1-K5	5	1-4
	3.2 Investment Accounts as per IAS - 40 – Definitions – Accounting Treatment, Conversion Treatment – IAS 16 to IAS 40		5	
	3.3 Accounting for Lease Transactions as per IFRS 16 – Definition and Key Terms, Types of Leases, Lessee Accounting, Lease Term, Short Life and Low Value Assets, Mid Year Leases	K1-K6	5	1-5
4	4.1 Accounting for Financial Instruments – Definition of Financial Instruments – Distinction between the Categories of Financial Instruments – Gains and Losses from Subsequent Measurement Treatment – Distinction between Debt and Equity Capital – Accounting for Compound Instruments	K2- K3	5	1-2
	4.2 Accounting for Revenue – Recognition, Five Step model, Measurement of Obligations	K3	5	2
	4.3 Accounting for Foreign Currency	K5	3	4
	4.4 Accounting for Income Taxes - Recognition, Classification (Current and Deferred), Measurement	K6	4	5
	4.5 Reporting Financial Information	K3	3	2

UNIT	CONTENT	CL	HRS	CO
5	Analysis and Interpretation of Financial Statements 5.1 Comparative Financial Statements vs Common size Financial Statements	K1-K6	3	1-5
	5.2 Calculation and Interpretation of Accounting Ratios and Trends to Address Users' and Stakeholders' Needs	K2-K3	2	1-2
	5.3 Limitations of Financial Statements	K5	1	4
	5.4 Interpretation Techniques and their Limitations	K3	1	2
	5.5 Interpretation Techniques for Specialised, Not-for-profit and Public Sector Entities	K6	2	5
	5.6 Introduction to Non-Financial Interpretation	K6	1	5

BOOKS FOR STUDY

ACCA BPP Financial Reporting (FR)

T.S. Reddy and A.Murthy, *Financial Accounting*, Margham Publishers, Reprint 2015

R.L. Gupta and M.Radhasamy, *Advanced Accounting* Vol I, S. Chand Publishers, Revised Edition 2010

BOOKS FOR REFERENCE

ACCA Kaplan Financial Reporting (FR)

Raj K Agrawal & Rupesh Agrawal, *Financial Accounting*, Taxmann's Publishers, 2015

S.N.Maheshwari, Suneel K Maheshwari, Sharad K Maheshwari, *Financial Accounting*, Vikas Publishing House, 2018.

M Hanif & A. Mukherjee, *Accounting I*, McGraw Hill Education, 2017.

Shukla, M. C., & Grewal, T. S. *Advanced Accounts*. S. Chand & Co. Recent Edition
Tulsian, P. C. *Accountancy*. S. Chand & Co., New Delhi Recent Edition

M.N Arora *Financial Accounting*, TaxMann Publications.

JOURNALS

Journal of Accounting

Indian Journal of Finance

Student Accountant

WEB RESOURCES

www.icsi.org

www.elsevier.com

www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/FA24												
	Course Title: FINANCIAL ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	2	2	2	1	1	2	3	3	3	2
CO 2	3	3	3	2	3	2	1	1	3	3	3	3	3
CO 3	3	3	3	2	2	2	1	1	3	3	3	3	2
CO 4	3	3	3	2	3	2	2	1	2	3	3	3	3
CO 5	3	3	3	2	3	3	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE LAW

CODE: 23BH/MC/CO24

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To expose students to the various provisions of the Companies Act
- To understand the management, administration and regulations of companies
- To familiarise the provisions relating to dividends and audit
- To develop the ability to analyse case laws and legal precedents related to corporate law
- To gain comprehensive knowledge the fiduciary duties of the corporate officers and directors to the corporation and its shareholders

COURSE LEARNING OUTCOME

On successful completion of the course, the students will be able to:

COs	DESCRIPTION	CL
CO1	Understand the key legal concepts and principles in corporate law	K1, K2
CO2	Draft and interpret company documents such as Memorandum of association, articles of association etc.	K3
CO3	Analyse complex legal cases	K4
CO4	Evaluate the legal implications of different corporate actions and decisions	K5
CO5	Develop innovative solutions to complex legal challenges in corporate law	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Jurisprudence of Company Law	K1-K2	2	1
	1.2 Meaning – Nature - Features of a Company		2	
	1.3 Judicial Acceptance of the Company as a Separate Legal Entity	K1-K4	3	1-3
	1.4 Concept of Corporate Veil - Applicability of Companies Act - Definitions and Key Concepts		3	
2	Documents 2.1 Memorandum of Association-Articles of Association and its Alteration	K1-K6	3	1-5
	2.2 Role of Promoters and Pre-Incorporation Contracts	K1-K3	2	1-2
	2.3 Doctrine of Constructive Notice and Indoor Management	K1-K6	2	1-5
	2.4 Prospectus - Shelf Prospectus and Red Herring Prospectus - Misstatement in a Prospectus		3	
3	Issue of Shares and Debentures 3.1 Allotment and Forfeiture of Shares, Calls on Shares	K1-K3	2	1-2
	3.2 Public Offer and Private Placement; Issue of Sweat Capital	K1-K5	2	1-4
	3.3 Employee Stock Options - Issue of Bonus Shares - Transmission of Shares, Buyback of Shares	K1-K6	3	1-5
	3.4 Types of Debentures - Issue of Debentures	K1-K4	3	1-3
	3.5 Charges and Registration of Charges	K1-K3	2	1-2
4	Dividends and Audit 4.1 Provisions Relating to Books of Account – Audit – Auditors' Appointment	K1-K3	2	1-2
	4.2 Rotation of Auditors - Auditors' Report - Secretarial Standards and Secretarial Audit	K1-K6	3	1-5
	4.3 Role of Secretary - On-Line Filing of Documents	K1-K4	2	1-3

UNIT	CONTENT	CL	HRS	CO
	4.4 Winding up of a Company 4.4.1 Voluntary Winding up	K1-K3	1	1-2
	4.4.2 Compulsory Winding up		1	1-2
	4.4.3 Insolvency and Bankruptcy Code - An Overview		1	1-2
5	Management			
	5.1 Types of Directors	K1-K2	2	1
	5.2 Appointment and Remuneration of Directors	K1-K3	3	1-2
	5.3 Rights and Duties of the Directors	K1-K4	3	1-3
	5.4 Termination of Director's Contract	K1-K3	2	1-2

BOOKS FOR STUDY

ACCA BPP Corporate and Business Law (LW-GLO)

Hicks, Andrew & Goo S.H., *Cases and Material on Company Law*, Oxford University Press, 2011

Gowar, LCB, *Principles of Modern Company Law*, Stevens & Sons, London, 2021

Majumdar, A.K., and G.K. Kapoor, *Company Law and Practice*, Taxmann, New Delhi, 2022

Hanningan, Brenda, *Company Law*, Oxford University Press, U.K., 2021

BOOKS FOR REFERENCE

ACCA Kaplan Corporate and Business Law (LW-GLO)

Sharma, J.P., *An Easy Approach to Corporate Laws*, Ane Books Pvt. Ltd., New Delhi

Ramaiya, *A Guide to Companies Act*, LexisNexis Buttersworth wadhwa, 2020

Kannal, S., & V.S. Sowrirajan, *Company Law Procedure*, Taxman's Allied Services (P) Ltd., New Delhi, 2022

Singh, Harpal, *Indian Company Law*, Galgotia Publishing, Delhi, 2003

WEB RESOURCES

www.icsi.org

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/CO24												
	Course Title: CORPORATE LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	2	1	1	1	2	1	1	1	2
CO 2	3	3	2	1	1	1	1	1	2	2	1	1	1
CO 3	3	3	3	1	3	2	2	2	3	1	1	1	1
CO 4	3	3	3	1	3	2	2	2	2	2	2	2	2
CO 5	3	3	3	1	3	3	2	2	3	1	1	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

COST ACCOUNTING

CODE: 23BH/MC/CA24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To acquire knowledge of the basic concepts of Cost Accounting
- To impart skills necessary for applying various cost accounting techniques
- To provide comprehensive knowledge on the role of cost accounting in business management and value creation
- To expose students to the application of cost accounting in management decision making
- To introduce the recent developments in cost accounting

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	Demonstrate understanding of the fundamental concepts of Cost Accounting	K1, K2
CO2	Apply the different methods and techniques of costing	K3
CO3	Explain the recent developments in cost accounting	K4
CO4	Measure the cost involved in the process of production	K5
CO5	Prepare the statement of cost for the different types of businesses	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Cost Accounting 1.1 Cost Accounting: Evolution, Meaning, Objectives and Scope	K1-K2	2	1
	1.2 Concepts of Costs, Elements of Cost, Cost Centre and Cost Unit		2	

UNIT	CONTENT	CL	HRS	CO
	1.3 Methods and Techniques of Costing		3	
	1.4 Preparation of Cost Sheet	K5-K6	5	4-5
2	Material, Labour and Overheads 2.1 Materials Control 2.1.1 Concept and Techniques- Procurement Procedures and Documentation: Methods of Purchasing; Procedure of Purchases, Stores and Issue of Material; Stock Verification	K1-K3	3	1-2
	2.1.2 Methods of Pricing of Material: FIFO, LIFO, Average, Weighted Average – Inventory Management: Techniques of Fixing Minimum, Maximum and Reorder Levels, Economic Order Quantity	K4-K5	6	3-4
	2.2 Labour Meaning and Classification of Labour Costs- Overtime and Idle Time - Labour Turnover	K1-K2	2	1
	2.2.2 Remuneration Systems and Incentive Schemes (Time Rate, Piece Rate, Halsey and Rowan Plan)	K3-K4	3	2-3
	2.3 Overheads 2.3.1 Meaning, Nature, Collection and Classification - Cost Allocation, Apportionment	K1-K4	2	1-3
	2.3.2 Primary and Secondary apportionment - Direct Re-apportionment, Repeated Distribution Method	K4-K6	3	3-5
3	Methods of Costing Job and Batch Costing 3.1.1 Introduction to Job and Batch Costing– Meaning, Characteristics, Benefits, Risks	K1-K2	2	1
	3.2 Process Costing 3.2.1 Introduction to Process Costing– Meaning, Characteristics, Benefits, Risks		2	
	3.2.2 Accounting Treatment of Normal Loss, Abnormal Loss, Abnormal Gain, Process Outputs, Equivalent Units, Process Accounts, Joint Products, By-Products, Point of Separation	K3-K6	6	2-5

UNIT	CONTENT	CL	HRS	CO
4	4.1 Service/Operation Costing 4.1.1 Introduction to Service/Operation Costing– Introduction - Meaning and Application of Operating Costing - Transport Costing – Problems on Transport Costing	K1-K4	5	1-3
	4.2 Activity Based Costing 4.2.1 Steps in the Implementation of ABC – Benefits from Adaptation of ABC System – Difficulties Faced by the Industries in the Successful Implementation of ABC - Problems on ABC	K1-K6	6	1-5
5	Recent Developments in Cost Accounting an Overview 5.1 Target Costing - Meaning, Advantages, Disadvantages, Target Cost for Manufacturing and Service Industries, Target Cost Gap	K1-K5	3	1-4
	5.2 Life Cycle Costing - Meaning, Advantages, Disadvantages, Life Cycle Cost for Manufacturing and Service Industries		2	
	5.3 Throughput Accounting - Meaning, Advantages, Disadvantages, Constraints, Tpar, Multi-Product Decision Making Problem		6	
	5.4 Environmental Accounting - Meaning, Advantages, Disadvantages, Environmental Costs, Methods of Accounting for the Environmental Cost		2	

BOOKS FOR STUDY

ACCA BPP Management Accounting (MA)

T.S. Reddy and Y.Hari Prasad Reddy, *Cost Accounting*, Margham Publication, 2015. Ravi.M. Kishore, *Cost and Management Accounting*, TaxMann Publishers, 2016

BOOKS FOR REFERENCE

ACCA Kaplan Management Accounting (MA)

Tulsian, *Introduction to Cost Accounting*, S.Chand, 2012

R. Palaniappan , N.Hariharan, *Cost Accounting Problems and Solutions*, I K International Publishing House Pvt Ltd., 2014

MN Arora, *Cost Accounting*, Himalaya Publishers, 2010

SN Maheshwari, *Cost Accountingstatis*, Sultan Chand, 2010

Jain and Narang, *Cost Accounting* Kalyani Publishers, 2012

JOURNALS

Journal of Management Accounting Research.

Management Accountant Journal Journal of

Cost Accounting Research.

Student Accountant

WEB RESOURCES

www.icsi.org www.elsevier.com

www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/CA24												
	Course Title: COST ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	1	1	2	3	3	2	2
CO 2	3	3	3	2	2	1	1	1	2	2	3	3	1
CO 3	2	2	2	2	2	1	1	1	1	2	2	2	1
CO 4	3	3	2	2	2	1	1	1	1	1	2	2	2
CO 5	3	3	3	2	3	1	1	1	2	2	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS ECONOMICS

CODE: 23BH/AC/BE25

CREDITS: 5

L T P : 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide the basic knowledge on economics
- To understand the importance of the laws of demand and supply
- To sensitise on the important concepts that have a direct impact on business
- To acquaint students with the market structures
- To comprehend the effect of price fixation on the market equilibrium

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COS	DESCRIPTION	CL
CO1	Define and explain economics and the importance of the Laws of Demand and Supply	K1
CO2	Understand the implications of fixing the price	K2
CO3	Apply the concept of profit maximisation	K3
CO4	Analyse the government policies and their implications on market structures	K4
CO5	Evaluate the costs and revenue of a business unit	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Economics – Definition, Problems of economics, branches of economics	K1-2	7	1-2
	1.2 Price Mechanism, Sectors of Economy	K2	8	2

UNIT	CONTENT	CL	HRS	CO
2	Market Equilibrium			
	2.1 Demand – Law of Demand, Exceptions to the Law of Demand, Changes in Demand	K1-4	4	1-4
	2.2 Supply – Law of Supply, Factors affecting Supply, Changes in Supply	K2	4	2
	2.3 Elasticity of Demand – Types and Elasticity of Supply	K1-5	4	1-5
	2.4 Market Equilibrium – Minimum Price and Maximum price fixation	K1-5	3	1-5
3	Cost and Revenue			
	3.1 Cost and types	K1-2	3	1-2
	3.2 Cost Curves – Short Run and Long run	K1-4	4	1-4
	3.3 Revenue – Revenue Curves	K1-4	4	1-4
	3.4 Break even and Profit Maximization	K1-5	4	1-5
4	Market Structures			
	4.1 Perfect Competition – Features and Profit	K1-4	3	1-4
	4.2 Imperfect Competition - Features and Profit	K1-2	3	1-2
	4.3 Monopoly, Monopolistic and Oligopoly	K1-5	4	1-5
5	Macro Concepts			
	5.1 Consumption Function, Savings Function and Investment function	K1-2	2	1-2
	5.2 Inflation, Deflation – Meaning and Causes	K1-2	2	1-2
	5.3 Business Cycles – Meaning, Phases, Countering and Managing Business Cycles	K1-4	3	1-4
	5.4 Government Policies – Fiscal Policy and Monetary Policy	K1-4	3	1-4

BOOKS FOR REFERENCE

A. , K. (n.d.). *Modern Micro Economics*. New York: Palgrave Macmillan, 2023
 Agarwal, & Vanita. (n.d.). *Macroeconomics: Theory and Policy*. New Delhi: Pearson, 2010

D.N., D. (n.d.). *Essentials of Business Economics*. Chennai: Vikas Publishing, 2009
 Economics, M. (n.d.). Mithani D.M. New Delhi: Himalaya Publishing House, 2022
 G, A. (n.d.). *Macroeconomics: Theory and Policy*. New York: Macmillan, 2008
 H, G., & Rees R. (n.d.). *Microeconomics*. New Delhi: Pearson Education, 2004
 H.R., A. (n.d.). *Business Economics*. Chennai: Vikas Publishing. 2011
 S, S. (n.d.). *Monetary Economics*. Chennai: Margham Publications, 2014
 Sankaran, S. (n.d.). *Business Economics*. Chennai: Margham Publications, 2013
 Shapiro.E. (n.d.). *Macroeconomic Analysis*. New Delhi: Galgotia Publication, 2001

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/AC/BE25												
	Course Title: BUSINESS ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	3	3	3	3	3	2	3
CO 2	3	3	3	1	3	2	3	3	3	3	3	2	1
CO 3	3	3	3	1	3	3	2	1	3	3	3	2	3
CO 4	3	3	2	1	1	1	2	1	3	2	2	2	2
CO 5	3	3	3	1	3	3	2	1	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNSHIP

CODE: 23BH/MC/IN24

CREDITS: 4

Internship is an integral part of the B.Com (Hons) Programme. To enable students to face the challenges of the business world, Internship Training is important. It plays a vital role in implementing theoretical knowledge and gaining practical exposure from the industry/organisation.

COURSE OUTCOMES FOR INTERNSHIP

- Apply theoretical knowledge gained in academic courses to real-world situations.
- Develop a better understanding of workplace dynamics, professional etiquette, and industry standards
- Build valuable connections for future career opportunities

OBJECTIVES OF INTERNSHIP

- To integrate theory and practise
- To gain working experience in a real working environment
- To engage in teams for execution of work assigned
- To widen their social and cultural experience
- To expose students to a wide spectrum of professional services in the field of commerce
- To gain insight on organization structure and its roles and responsibilities
- To help students identify and develop professional skills

GUIDELINES:

- The student will undergo practical training in a reputed organization for 60 hours
- The student is expected to work in the Finance department at least for 40 hours and the remaining 20 hours in other departments
- The student is required to maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
Hours worked, Nature of work performed, Signature of the supervisor
- An Interim report to be submitted to faculty advisor after completion of 30 hours
- A final consolidated report to be submitted to faculty advisor

Preparation of Final Report

The report should have a minimum of 50 pages detailing the work assigned and performed in the organization - Introduction of the Organisation/ Practical Aspects of Internship - Experience/Suggestions/Challenges/Conclusion

Pattern of Evaluation

Internship Report Evaluation:

Rubrics for Evaluation	Marks	Cognitive Level
Log book	10	K1
Interim Report	20	K2
Project report	40	K3-K4
Viva	30	K5
	100	

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/IN24												
	Course Title: INTERNSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

BANKING AND FINANCIAL SERVICES

CODE: 23BH/MC/BF34

CREDITS: 4

LTP : 4 0 0

TOTAL TEACHING HOURS : 52

OBJECTIVES OF THE COURSE:

- To create an awareness on the role played by investment bankers
- To familiarise students with various financial services
- To impart knowledge, skills and attitude for a successful career in management of financial services
- To think critically to identify solutions within business constraints
- To comprehend the different avenues of corporate finance

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the key financial concepts and terms relating to banking and financial services.	K1, K2
CO2	Apply financial concepts and principles to real world scenarios such as calculating interest on loan	K3
CO3	Analyze the impact of economic trends and events in the banking and financial services industry	K4
CO4	Evaluate the ethical implications of different financial decisions and practices	K5
CO5	Develop and propose financial plans and strategies for individuals and businesses in India taking into account their unique needs and goals	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Investment Banking			
	1.1 Introduction & Functions of Investment Banks	K1-K2	3	1
	1.2 Types of Investment Banks - Investment Banking Services		2	1
	1.3 Merchant Banking Services -Issue Management RBI functions	K1-K6	2	1-5
	1.4 Underwriting - Underwriting in Fixed Price Offers and Book Built Offers	K1-K3	3	1-2
2	Depositories			
	2.1 Depository Services- Role of depositories and their Services— Advantages of Depository system	K1-K5	3	1-4
	2.2 NSDL and CDSL- Depository participants and their Role	K1-K3	3	1-2
	2.3 Stock Broking Services including SEBI Guidelines	K1-K5	3	1-4
3	Housing Finance			
	3.1 Housing Finance – Role and Types of Housing Loans	K1-K4	2	1-3
	3.2 Institutions and Banks Offering Housing Finance, Procedure, Interest Rates and Income Tax Implication	K1-K6	3	1-5
	3.3 Reverse Mortgage Loan	K1-K4	2	1-3
	3.4 Non-Banking Finance Companies - Types, Functions & RBI Guidelines for NBFCs	K1-K3	2	1-2
4	Factoring and Securitization of Debt			
	4.1 Factoring – Origin & Types	K1- K2	3	1
	4.2 Factoring Mechanism, Factoring Charges, International Factoring & Factoring in India		3	

UNIT	CONTENT	CL	HRS	CO
	4.3 Forfeiting: Origin, Characteristics, Benefits, Difference between Factoring and Forfeiting	K1-K4	3	1-3
	4.4 Securitisation of debt: Meaning, Features, Special Purpose Vehicle, Types of Securitised Assets, Benefits of Securitisation, Issues in Securitisation	K1-K3	3	1-2
5	Financing for Corporates	K1-K4	2	1-3
	5.1 Venture Capital - Concept, Features, Current Indian Scenario			
	5.2 Microfinance - NGOs and SHGs - Microfinance Delivery Mechanisms – Future of Micro Finance	K1-K5	2	1-4
	5.3 Credit Rating - Meaning, Process of Credit Rating of Financial Instruments, Rating Agencies	K1-K4	2	1-3
	5.4 Leasing - Concept, Steps in Leasing Transactions, Types of Lease, Problems in leasing, Factors influencing Buy or Borrow or Lease Decision	K1-K5	2	1-4
	5.5 Hire Purchasing - Concepts and Features, Hire Purchase Agreement, Comparison of Hire Purchase with Credit Sale, Installment Sale and Leasing, Problems related to Outright Purchase, Hire purchase and Leasing		4	

BOOK FOR STUDY

Gurusamy. S, *Financial Services*, Tata McGraw Hill Education Pvt. Ltd, 2011

Khan M.Y., *Financial Services*, Tata Mc Graw Hill Publishing Pvt. Ltd, 2013

Sundaram K.P.M. and Varshney P. N., *Banking Theory Law and Practice*, New Delhi, Sultan Chand & Sons, 2015.

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Gurusamy S. *Financial Services and Markets*, Chennai, Vijay Nicole Imprints Pvt. Ltd., 2014

Machiraju H. R, *Indian Financial System*, Vikas Publishing House Pvt. Ltd, 2019.

Bhalla. V.K., *Management of Financial Services*, Anmol Publications Pvt. Ltd., 2006

Gurusamy S, *Banking Theory Law and Practice*, Vijay Nicole Imprints Pvt. Ltd., 2013.

Varshney P.N., *Banking Law and Practice*, Sultan Chand & Sons, 2014.

E.Gordon and K.Natarajan, *Banking Theory, Law And Practice*, Himalaya Publishing House, 2016

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Indian Journal of Finance

Journal of Banking, Information Technology and Management

Journal of Internet Banking and Commerce

International Journal of Banking and Finance

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<http://www.preservearticles.com/2014091833564/merchant-banking-meaning-and-functions-ofmerchant-banking.html>

<https://www.bankingfinance.in/list-websites-banks-india.html> <https://www.india-financing.com/indol.html> <http://www.languages.ind.in/factoring.htm>

<http://www.rbi.org.in/scripts/PublicationReportDetails.asp>.

<http://www.allbankingsolutions.com/top-topics/dep1.shtml>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/BF34												
	Course Title: BANKING AND FINANCIAL SERVICES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	1	1	1	2	2	1	1	1
CO 2	3	3	3	1	2	2	1	1	3	3	2	2	2
CO 3	3	3	3	1	2	2	1	1	1	1	1	1	2
CO 4	3	3	3	1	3	2	3	2	1	1	1	1	1
CO 5	3	3	3	1	3	2	1	1	2	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

MARKETING MANAGEMENT

CODE: 23BH/MC/MM34

CREDITS : 4

L T P : 4 0 0

TOTAL TEACHING HOURS : 52

OBJECTIVES OF THE COURSE

- To understand the basic principles and concepts of marketing
- To familiarise students with marketing mix and effective marketing strategies
- To comprehend the conceptual framework of marketing and its applications in decision making under various environmental constraints
- To measure the effectiveness of marketing campaigns and make decisions
- To create comprehensive marketing plans that incorporate the various elements of marketing to achieve specific objectives

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to:

COs	DESCRIPTION	CL
CO1	Understand the basic principles and concepts of marketing	K1, K2
CO2	Apply marketing principles to real-world scenarios and develop problem-solving and critical-thinking skills	K3
CO3	Analyse factors influencing the marketing mix and develop effective marketing strategies	K4
CO4	Evaluate the relevance and effectiveness of marketing campaigns and strategies for a given target audience	K5
CO5	Develop a marketing campaign that integrates traditional and contemporary marketing strategies	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction Marketing – Meaning, Definition, Nature; Marketing Mix	K1-K4	4	1-3
	Scope, Process and Functions of Marketing	K1-K5	3	1-4
	1.3 Marketing Management - Marketing Management Orientation	K1-K6	3	1-5
2	Marketing Environment 2.1 Marketing Environment - Managing Marketing Information	K1-K6	2	1-5
	2.2 Consumer Markets - Consumer Buying Behaviour Process; Business Markets - Business Buying Behaviour Process	K1-K5	3	1-4
	2.3 Market Segmentation - Methods of Segmentation	K1-K6	3	1-5
	2.4 Targeting and Positioning Strategies	K1-K5	2	1-4
3	Product Planning and New Product Development 3.1 Product, Services and Branding Strategies			
	3.1.1 Product Policy and Product Mix	K1-K5	2	1-4
	3.1.2 New Product Development	K1-K6	2	1-5
	3.1.3 Product Life Cycle Strategy	K1-K6	2	1-5
	3.2 Pricing Strategies			
	3.2.1 Pricing Policy and Objectives	K1-K6	2	1-5
4	Marketing Channels and Marketing Communication 4.1 Functions and Types of Marketing Channels	K1-K4	3	1-3
	4.2 Channel Design Management; Channel Behaviour	K1-K6	3	1-5
	4.3 Marketing Communication Mix; Marketing Communication process	K1-K5	3	1-4

UNIT	CONTENT	CL	HRS	CO
	4.4 Steps in Developing Effective Marketing Communication	K1-K6	3	1-5
5	Trends in Marketing			
	5.1 Evolution of Marketing Concepts	K1-K4	2	1-3
	5.2 Traditional and Modern Marketing Strategies	K1-K5	2	1-4
	5.3 Customer Retention Strategies	K1-K6	2	1-5
	5.4 Marketing Ethics and Sustainability	K1-K6	2	1-5

BOOKS FOR STUDY

ACCA BPP Business and Technology (BT)

Rajan Nair and Sanjith Nair, Marketing, Eleventh Edition, New Delhi, Sultan Chand & Sons, 2018

BOOKS FOR REFERENCE

ACCA Kaplan Business and Technology (BT)

Philip Kotler, Marketing, 15th edition, New Delhi, Prentice Hall of India Private Ltd., 2017.

Micheal Etzel, Bruce J. Walker, William J. Stanton, Ajay Pandit, Marketing, 14th edition, New Delhi, McGraw Hill (International Editions) Inc., 2017.

Xavier, M. J., Marketing in the New Millenium, New Delhi, Vikas Publishing House Pvt Ltd., 2009.

Jonathan Groucutt, Peter Leadley, Patrick Forsyth, Marketing Essential Principles, New Realities, Kogan Page Limited, 2014 Edition.

Dr. R.L. Varshney, Dr. S.L. Gupta, Marketing Management, Himalaya Publishing.

Steven J Skinner, Marketing, Houghton Mifflin Co; 2nd edition (1994)

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Journal of Marketing - American Marketing Association

Journal of Consumer Marketing

Journal of Marketing Education

International Journal of Research in Marketing

International Journal of Marketing Studies

International Journals of Marketing and Technology

Indian Journal of Marketing

WEBSITES

<http://www.yourarticlelibrary.com>

<http://www.marketingsherpa.com>

<https://www.boundless.com>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
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C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/MM34												
	Course Title: MARKETING MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	2	2	3	1	2	1	2
CO 2	3	3	3	2	3	2	2	2	3	2	2	2	3
CO 3	3	3	3	2	2	1	1	1	2	1	1	1	2
CO 4	3	3	3	2	2	1	1	2	2	1	1	1	2
CO 5	3	3	3	2	3	2	2	2	3	2	2	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

AUDITING AND ASSURANCE

CODE:23BH/MC/AA34

CREDITS : 4

L T P : 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To explore the practices of audit
- To understand of audit process embedded with assurance standards
- To familiarise with the roles and responsibilities of an auditor in an organisation
- To provide practical knowledge of generally accepted auditing procedures and techniques
- To encourage critical thinking and problem-solving skills by exposing students to real-world audit scenarios

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to:

COs	DESCRIPTION	CL
CO1	Understand the audit standards and regulations that govern the audit process	K1
CO2	Explain audit procedures and evaluating audit evidence	K2
CO3	Apply audit process in manual and computerized environment	K3
CO4	Examine an auditor's roles and responsibilities for detecting and preventing fraud.	K4
CO5	Evaluate the practical working of audit in various organizations	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Auditing - Nature, Scope, Significance and Types of Auditing	K1	2	1
	1.2 Audit Engagement - Objective, Principles, Elements, Types, Level of Assurance	K1-K2	2	1-2
	1.3 Auditor's Qualifications, Disqualifications, Appointment, Remuneration, Removal, Powers and Duties		2	
	1.4 Corporate Governance and Professional Ethics – ACCA's Code of Ethics and Conduct	K1-K4	2	1-4
	1.5 Corporate Frauds – Types and Prevention Measure		2	
	1.6 Audit Programme, Audit Working Papers	K1-K3	2	1-3
2	Audit Process 2.1 Assessing Audit Risk and Auditor's Response- Components of Risk, Materiality and Performance Materiality, Quality control	K1-K4	2	1-4
	2.2 Audit Planning – Understanding the Entity, Audit Documentation, Fraud Laws		2	
	2.3 Audit Procedures – Analytical Procedures, Substantive procedures, Tests of Controls		2	
	2.4 Audit Evidence – Financial Statement Assertions	K1-K5	2	1-5
	2.5 Auditing of Different Types of Undertaking Education, Hospitals, Cooperative Societies, Banks, Trusts, Municipalities, Panchayats, Banks	K1-K6	2	1-5
3	Internal Control & Internal Check 3.1 Objectives and Methods of Internal Control (AAS 6) – Use, Evaluation, Communication, Defects and Corrective Actions	K1-K3	3	1-3
	3.2 Internal check – Objectives and Methods (AAS 7)		2	
	3.3 Internal Check, Internal Control, Internal Audit - Industry Specific.		3	

UNIT	CONTENT	CL	HRS	CO
	3.4 Risk Based Internal Audit and Governance	K1-K5	2	1-5
	3.5 Audit Sampling (AAS 15)	K1-K4	2	1-4
4	Audit of Ledger	K1-K3	2	1-3
	4.1. Audit of Payments and Receipts		2	
	4.2. Audit of Purchases and Sales		2	
	4.3 Audit of Assets, Liabilities and Equity		2	
	4.4 Audit of Suppliers Ledger and Debtors Ledger (AAS 30)	K4-K6	2	4-5
	4.5 Automated Tools and Techniques of Audit – CAAT, System Audit and Scope of Audit		2	
5	Review and Reporting	K1-K4	3	1-4
	5.1 Subsequent Events, Going Concern, Written Representations, Audit Finalisation	K1-K6	3	1-5
	5.2 Audit Report - Method of Reporting, Types of Reports, Types of Opinions – Reporting of Fraud under Companies Act 2013 (AAS 4 & 28)		2	
	5.3. Reporting on Risk Management			

BOOK FOR STUDY

ACCA BPP Audit and Assurance (AA)

Tandon, B. N. *Handbook of Practical Auditing*. New Delhi: S.Chand, 2019.

Pagare, Dinakar. *Basics of Auditing*. New Delhi: Sultan Chand, 2021.

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ACCA Kaplan Audit and Assurance (AA)

De Paula, F.R.M. *Principles of Auditing: A practical manual for students and practitioners*. London: E.L.B.S., 2005.

Gupta, Kamal. *Contemporary Auditing*. New Delhi: Tata McGraw Hill, 2006.

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Saxena, R. G. *Principles and Practices of Auditing*. Mumbai: Himalaya, 2020.

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www.academia.edu/7505528/VERIFICATION_AND_VALUATION

www.e-economic.co.uk/accountingsystem/glossary/auditors-report

accountlearning.blogspot.in/2012/02/advantages-of-audit-program.html

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
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E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/AA34												
	Course Title: AUDITING AND ASSURANCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	1	2	1	2	3	3	3	2
CO 2	3	3	2	1	3	3	2	1	3	3	3	3	2
CO 3	3	3	1	1	3	3	2	1	3	3	3	3	3
CO 4	3	3	3	1	3	2	3	3	2	3	3	2	3
CO 5	2	3	3	1	2	3	1	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

COST ACCOUNTING TECHNIQUES

CODE: 23BH/MC/CT34

CREDITS: 4

LTP : 4 1 0

TOTAL TEACHING HOURS : 65

OBJECTIVES OF THE COURSE

- To familiarize with the different methods of cost accounting
- To comprehend the application of cost accounting techniques
- To apply performance measurements and monitor business performance
- To acquaint with the planning and control techniques in cost accounting
- To sensitize on the significance of cost accounting in managerial decision making

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Acquire practical understanding of the decision-making process	K1
CO2	Identify measures of financial performance	K2
CO3	Analyze cost-volume-profit relationship for better decision-making	K3
CO4	Measure variances and compute deviations between the budgeted and actual costs	K4
CO5	Preparation of Budgets	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Absorption and Marginal Costing			
	1.1 Absorption Costing – Meaning, Advantages, Limitations and Applications	K1-K2	2	1-2
	1.2 Marginal Costing- Meaning, Advantages, Limitations and Applications- Breakeven Analysis	K1-K3	2	1-3
	1.3 Absorption Costing vs Marginal Costing – Profit Calculation under both Methods	K2-K4	3	2-4

UNIT	CONTENT	CL	Hrs	CO
	1.4 Cost Volume Profit Analysis – Break-Even Point, Margin of Safety, Contribution to Sales Ratio, in Single and Multi-product Situations, Target Profit or Revenue in Single and Multi-product Situations, Break-even Charts and Profit Volume Charts, Limitations of CVP Analysis	K3-K6	3	3-5
2	Application of Marginal Costing in Decision Making 2.1 Decision involving Limiting Factors - Scarce Resource Situation, Optimal Production Plan, Multiple Scarce Resource Problems, Shadow Prices, Slack	K1-K6	3	1-5
	2.2 Pricing Decisions – Price Elasticity of Demand, Straight Line Demand Equation, Optimum Selling Price, Demand Based Approach to Pricing, Cost Plus Pricing		3	
	2.3 Make or Buy Decisions - Make vs. Buy and Outsourcing Decisions, Make Cost and Buy-in Cost, In-House Costs and Outsource Costs of Completing Tasks, Relevant Costing Principles in Situations involving Shut Down, One-Off Contracts and the Further Processing of Joint Products		4	
	2.4 Selection of the Most Profitable Product Mix, Diversification of Products – Alternative Methods of Production		2	
	2.5 Relevant Costing – Concept, Relevant Costs Calculation, Opportunity Costs		3	
3	Standard Costing and Variance Analysis 3.1 Introduction to Standard Costing Systems – Purpose, Principles, Difference Between Standard, Marginal and Absorption Costing, Methods	K1-K2	3	1-2
	3.2 Variance Calculations and Analysis – Material, Labour, Overhead, Sales and Profit Variance	K3-K4	4	3-4
	3.3 Interpretation of Variances and Evaluation of Past Performance – Factors Influencing Behaviour, Effect on Staff Motivation, Variance in JIT and TQM Scenarios	K4-K6	5	4-5
	3.4 Reconciliation of Budgeted and Actual Profit under Standard Absorption Costing and under Standard Marginal Costing		3	
4	Performance Measurement 4.1 Introduction to Performance Measurement – Purpose, Role and Impact on Economic and Market Conditions	K1-K2	2	1-2

UNIT	CONTENT	CL	Hrs	CO
	4.2 Measures of Financial Performance - Profitability, Liquidity, Activity and Gearing	K4-K5	2	4-5
	4.3 Balanced Scorecard – Advantages, Limitations, Performance Indicators, Critical Success Factors, Key Performance Indicators		3	
	4.4 Cost Reduction Controls – Cost Reduction Methods, Value Analysis		2	
	4.5 Monitoring Performance – Non Financial Indicators, Measurement of Performance in Service Industry and Not For Profit Industry, Benchmarking		2	
5	Budget and Budgetary Control			
	5.1 Budget, Budgeting and Budgetary Control-Concepts and Importance	K1-K2	2	1-2
	5.2 Production Budget- Purchase Budget- Sales Budget – Cash Budget- Fixed and Flexible Budgets	K4-K6	3	4-5
	5.3 Budgetary Systems and Types of Budgets, Information used in Budgets	K1-K2	2	1-2
	5.4 Preparation of Flexed Budgets, Rolling Budgets and Activity-Based Budgets	K4-K6	2	4-5
	5.5 Beyond Budgeting Model – Meaning, Benefits and Problems	K1-K2	2	1-2
	5.6 Quantitative Analysis – High-Low Method, Learning Curve		3	

BOOKS FOR STUDY

ACCA BPP Management Accounting (MA)

ACCA BPP Performance Management (PM)

T.S. Reddy and Y.Hari Prasad Reddy, *Cost and Management Accounting*, Margham Publication, 2015.

Ravi.M. Kishore, *Cost and Management Accounting*, TaxMann Publishers, 2016

BOOKS FOR REFERENCE

ACCA Kaplan Management Accounting (MA)

ACCA Kaplan Performance Management (PM)

Tulsian, *Introduction to Cost Accounting*, S.Chand, 2012

R. Palaniappan , N.Hariharan, *Cost Accounting Problems and Solutions*, I K International Publishing House Pvt Ltd., 2014

B.Sarvana Prasath, *A Ready Referencer on Advanced Management Accounting*, Wolters Kluwer India Pvt Ltd., 2018

Khan & Jain, *Management Accounting*, Tata McGraw Hill, 2013
 SN Maheshwari, *Accounting for Management*, Sultan Chand, 2010
 Jain and Narang, *Cost Accounting* Kalyani Publishers, 2012

JOURNALS

Journal of Management Accounting
 Research. Management Accountant Journal
 Journal of Cost Accounting Research.
 Student Accountant

WEB RESOURCES

www.icsi.org
www.elsevier.com
www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/CT34												
	Course Title: COST ACCOUNTING TECHNIQUES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	1	1	3	2	2	2	2
CO 2	3	2	2	2	2	2	1	1	2	2	3	3	2
CO 3	3	3	3	2	2	2	1	1	3	3	3	3	2
CO 4	3	3	3	2	2	1	1	1	3	2	3	3	2
CO 5	3	2	3	2	2	1	1	1	2	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

HUMAN RESOURCE MANAGEMENT

CODE:23BH/MC/HR34

CREDITS : 4

L T P : 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To introduce the fundamental concepts of Human Resource Management
- To impart knowledge on the process of selecting and onboarding employees effectively
- To understand the evaluation of employee performance through performance appraisals and feedback
- To examine the design and administration of compensation packages and employee benefits
- To explore the strategies for managing employee relations and conflicts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the significance of Human Resource Management in organisational success	K1, K2
CO2	Demonstrate the principles of an effective employee recruitment	K3
CO3	Analyse the effectiveness of a performance appraisal system	K4
CO4	Evaluate the components of a typical compensation package	K5
CO5	Develop a comprehensive HR strategy aligned with an organisation's goals	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENTS	CL	HRS	CO
1	Introduction to Human Resource Management 1.1 Evolution of HRM: HRM vs. Personnel Management	K1-K3	2	1-2
	1.2 HRM's Role in Organizations	K1-K4	2	1-3
	1.3 HRM and Competitive Advantage		2	
	1.4 Ethical and Legal Considerations		2	
	1.5 HRM Challenges and Trends	K1-K5	2	1-4
2	Talent Acquisition and Recruitment 2.1 Workforce Planning and Forecasting	K1-K6	3	1-5
	2.2 Job Analysis and Design		4	
	2.3 Recruitment, Selection and Training - An Overview	K1-K2	1	1
	2.4 Diversity and Inclusion in Recruitment	K1-K4	2	1-3
3	Performance Appraisal and Compensation Management 3.1 Feedback and Performance Improvement 3.1.1 Performance Appraisal and Feedback	K1-K5	2	1-4
	3.1.2 Career Development and Succession Planning	K1-K6	2	1-5
	3.1.3 Managing Employee Performance Issues	K1-K5	2	1-4
	3.2 Compensation and Benefits 3.2.1 Compensation Strategy and Pay Structures	K1-K5	2	1-4
	3.2.2 Benefits, Incentives and Rewards	K1-K4	2	1-3
	3.2.3 Compensation and Benefits Compliance		2	
4	Employee Relations 4.1 Employee Engagement and Motivation Techniques	K1-K3	3	1-2
	4.2 Employee Communication - Grievance Redressal	K1-K4	2	1-3
	4.3 Labor Relations and Dispute Resolution - An Overview	K1-K5	3	1-4
	4.4 Employee Rights and Privacy	K1-K4	2	1-3

UNIT	CONTENTS	CL	HRS	CO
5	Emerging Trends in HRM 5.1 International HRM - Managing HR in Global Context	K1-K4	3	1-3
	5.2 Human Resource Information Systems and AI - Overview	K1-K6	3	1-5
	5.3 Workforce Trends; Ethical and Sustainability issues in HRM		4	

BOOKS FOR STUDY

Aswathappa, Sadhna Dash, Human Resource Management - Text and Cases, Tata McGraw Hill, NewDelhi, 2023, 10th Edition.

Garry Dessler & Varkkey, Human Resource Management, Pearson, New Delhi, 2020, 16th Edition

BOOKS FOR REFERENCE

Susan L. Verhulst, David A. DeCenzo, Rama Shankar Yadav, Human Resource Management, Wiley India Pvt. Ltd, 2021

Raman Preet, Future of Human Resource Management: Case Studies with Strategic Approach, Wiley India Pvt. Ltd, 2019

Alan Price, Human Resource Management, Cengage Learning, NewDelhi, 2007

Dr. Gaurav Sankalp, Human Resource Management (Industrial Relations), Sahitya Bhawan Publications

Pravin Durai, Human Resource Management, Pearson, New Delhi, 2010

JOURNALS

Human Resource Management Journal

The International Journal of Human Resources Management

Leadership Quarterly

Personnel Psychology

WEB RESOURCES

www.whatishumanresource.com/

peoplemanagingpeople.com/

study.sagepub.com/

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/HR34												
	Course Title: HUMAN RESOURCES MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	2	3	2	1	2	1	3
CO 2	3	3	1	1	3	2	1	3	3	1	3	1	3
CO 3	2	3	2	1	3	1	2	3	3	1	1	1	2
CO 4	2	3	2	1	3	1	1	1	1	3	3	1	1
CO 5	3	3	2	1	3	1	2	3	3	1	1	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B. Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMMERCE

CODE: 23BH/AC/MC35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts pertaining to the discipline of commerce
- To employ different techniques to solve problems pertaining to matrices, equations and LPP
- To appreciate the concept of numerical differentiation and integration as an alternate tool to solve problems on differentiation and integration
- To promote problem solving skills and quantitative analysis
- To model and solve real time problem using linear programming method

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recall and define the basic mathematical concepts on matrices, equations, differentiation, integration and linear programming problem	K1
CO2	Understand and compare the concepts relating to matrices, polynomials, numerical methods and linear programming problem	K2
CO3	Utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CO4	Analyse and examine the problem relating to the applications of matrices, differentiation, integration and optimization	K4
CO5	Evaluate solutions to the problems related to matrices, equations, differentiation, integration and linear programming problem	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Matrices	K1- K5	2	1-5
	1.1 Types of matrices			
	1.2 Characteristic equation of a matrix		2	
	1.3 Cayley - Hamilton Theorem (without proof)		3	
	1.4 Eigen Values and Eigen Vectors		3	
	1.5 Diagonalization of 3x3 matrices with distinct Eigen values		3	
2	Theory of Equations	K1-K5	2	1-5
	2.1 Formation and Solution of Equation with Imaginary and Irrational Roots			
	2.2 Relation between Roots and Coefficients		2	
	2.3 Solution of Equations under given Conditions		3	
	2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients		3	
	2.5 Reciprocal equations		3	
3	Numerical Methods	K1-K5		1-5
	3.1 Algebraic and Transcendental Equations			
	3.1.1 The Bisection Method		2	
	3.1.2 Newton Raphson Method		3	
	3.2 Simultaneous Equations	K1-K5		1-5
	3.2.1 Gaussian Elimination Method		2	
	3.2.2 Gauss - Jordan Elimination Method		2	
	3.2.3 Gauss Jacobi Iteration Method		2	
	3.2.4 Gauss - Seidal Iteration Method		2	
4	Numerical Differentiation and Numerical Integration	K1-K5		1-5
	4.1 Derivatives using Newton's forward difference Formula		3	
	4.2 Derivatives using Newton's backward difference Formula		3	
	4.3 Trapezoidal Rule		3	
	4.4 Simpson's one third rule		2	
	4.5 Simpson's three eight rule		2	

UNIT	CONTENT	CL	Hrs	CO
5	Linear Programming Problem	K1-K5		1-5
	5.1 General L.P.P.		3	
	5.2 Canonical and standard forms of L.P.P.		4	
	5.3 The Simplex Algorithm		3	
	5.4 The Big M – method		3	

BOOKS FOR STUDY

S Arumugam, *et al.*, *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017

Chapter 3 Sections 3.3, 3.5

Chapter 4 Sections 4.3, 4.4, 4.7, 4.8

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to concepts only)

V Sundaresan, *et al.*, *Resource Management Techniques*. Chennai: A.R. Publications, 2014

Chapter 3 Sections 3.1.1 – 3.1.4, 3.2.1

S G Venkatachalapathy, *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

BOOKS FOR REFERENCE

A. Abdul Rasheed, *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008

S Kalavathy, *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016

S Sankarappan, *et al.*, *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009

WEB RESOURCES

<https://youtu.be/w8i89ftfZPI?si=HlaO4tYZ9ge9zPsx>

https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SMT1302.pdf

<https://www.math.ucla.edu/~tom/LP.pdf>

<http://www.math.iitb.ac.in/~baskar/book.pdf>

<http://ncert.nic.in/ncerts/l/lemh206.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1(6)	$3 \times 2 = 6$	3 questions	4 questions
B	K2 (4)	$4 \times 1 = 4$	4 Multiple choice questions	4 Multiple choice questions
C	K3 (15)	$1 \times 15 = 15$	1 question	2 questions
D	K4 (15)	$1 \times 15 = 15$	1 question	2 questions
E	K5 (10)	$1 \times 10 = 10$	1 question	2 questions
	Total	50	10	14

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1(10)	$5 \times 2 = 10$	5 questions	6 questions
B	K2 (10)	$10 \times 1 = 10$	10 Multiple choice questions	10 Multiple choice questions
C	K3 (30)	$2 \times 15 = 30$	2 questions	4 questions
D	K4 (30)	$2 \times 15 = 30$	2 questions	4 questions
E	K5 (20)	$2 \times 10 = 20$	2 questions	4 questions
	Total	100	21	28

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/AC/MC35												
	Course Title: MATHEMATICS FOR COMMERCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNSHIP

CODE: 23BH/MC/IN32

CREDITS: 2

Internship is an integral part of the B.Com (Hons) Programme. To enable students to face the challenges of the business world, Internship Training is important. It plays a vital role in implementing theoretical knowledge and gaining practical exposure from the industry/organisation.

COURSE OUTCOMES FOR INTERNSHIP

- Apply theoretical knowledge gained in academic courses to real-world situations.
- Develop a better understanding of workplace dynamics, professional etiquette, and industry standards
- Build valuable connections for future career opportunities

OBJECTIVES OF INTERNSHIP

- To integrate theory and practise
- To gain working experience in a real working environment
- To engage in teams for execution of work assigned
- To widen their social and cultural experience
- To expose students to a wide spectrum of professional services in the field of commerce
- To gain insight on organization structure and its roles and responsibilities
- To help students identify and develop professional skills

GUIDELINES:

- The student will undergo practical training in a reputed organization for 30 hours
- The student is expected to work in the Finance department at least for 20 hours and the remaining 10 hours in other departments
- The student is required to maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
Hours worked, Nature of work performed, Signature of the supervisor
- A final consolidated report to be submitted to faculty advisor

Preparation of Final Report

The report should have a minimum of 25 pages detailing the work assigned and performed in the organization - Introduction of the Organisation/ Practical Aspects of Internship - Experience/Suggestions/Challenges/Conclusion

Pattern of Evaluation

Internship Report Evaluation:

Rubrics for Evaluation	Marks	Cognitive Level
Log book	20	K1
Project report	50	K2-K4
Viva	30	K5
	100	

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/IN32												
	Course Title: INTERNSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE GOVERNANCE

CODE: 23BH/MC/CN44

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To understand the practices of corporate governance
- To familiarize ethical issues related to good governance necessary for long term survival of business
- To develop knowledge on the recent practices in governance
- To gain familiarity in the theories of corporate governance
- To Analyse different strategies in the compliance of corporate governance

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Identify the key stakeholders in corporate governance	K1
CO2	Understand the need for corporate governance and role of directors in various sectors	K2
CO3	Apply corporate governance principles in business practice	K3
CO4	Analyse the reasons for corporate governance failure and propose solutions to prevent similar problems in the future	K4
CO5	Interpret and evaluate the effectiveness of a company's corporate governance practices	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Corporate Governance	K1-K3	2	1-3
	1.1 Corporate governance- Meaning, Principles, need and importance		3	
	1.2 Agency principle, Stakeholder relationship, Social responsibility	K2-K3	3	2-3
	1.3 Approaches – Rules based Vs Principles based	K3	2	3
2	Management Structure	K1-K2	3	1-2
	2.1 Management Structure of Corporate Governance	K2-K6	4	2-5
	2.1 Reporting to stakeholders- Integrated reporting, guiding principles, Environmental footprints, Internal management systems		3	2-4
3	Corporate Governance in Various Sectors	K1-K3	5	1-3
	3.1 Corporate Governance in Banks		5	
4	Theories of Corporate Governance	K1-K6	6	1-5
	4.1 Theories, Models and Benefits of Corporate Governance	K1-K5	6	1-5
	4.2 Insider Trading, Green Governance, Whistle blowing			
5	Recent Practices in Corporate Governance	K1-K3	3	1-3
	5.1 Codes and Standards on Corporate Governance	K2-K6	2	2-5
	5.2 Initiatives in India	K5-K6	3	5
	5.2 Maxwell Communication, Enron, World Com, Andersen Worldwide, Vivendi, Satyam Computer Services, Kingfisher Airlines	K4	2	4
	5.3 Common Governance Problems noticed in Corporate failures			

BOOKS FOR STUDY

ACCA BPP Strategic Business Leader (SBL)

Mathur, U.C. *Corporate Governance & Business Ethics*. Macmillan, 2005.

Fernando, A.C., *Corporate Governance – Principles, Policies & Practice*, Pearson (2018)

BOOKS FOR REFERENCE

ACCA Kaplan Strategic Business Leader (SBL)

Christine, A Mallin. *Corporate Governance* (Indian Edition). New Delhi: Oxford University (2018)

Geeta Rani, D & R K Mishra. *Corporate Governance-Theory and Practice*, New Delhi: Excel, 2009

Sharma, J. P. *Corporate Governance Business Ethics & CSR*. New Delhi: Ane Books 2019

Subhash Chandra Das, *Corporate Governance in India*. PHI, 2021

JOURNALS

Business and Professional Ethics Journal

The International Journal of Corporate Social Responsibility (JCSR)

International Journal of Corporate Governance (IJCG)

Student Accountant

WEBSITES

www.tutorialspoint.com

managementhelp.org/businessethics/index

www.bigcommerce.com

www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/CN44												
	Course Title: CORPORATE GOVERNANCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	2	2	1	2	1	3	2	1	1	2
CO 2	3	2	2	2	2	1	2	1	2	2	1	1	3
CO 3	3	3	3	2	3	1	3	3	2	1	2	2	3
CO 4	3	3	3	2	2	1	2	2	3	2	1	1	3
CO 5	3	3	3	2	3	1	2	2	2	1	1	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

MANAGEMENT ACCOUNTING AND CONTROL

CODE: 23BH/MC/MA44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide basic understanding on the concept of management accounting and control
- To enhance the understanding of the scope of management accounting in strategy formulation and execution
- To introduce the traditional and modern techniques of control
- To identify ethical dilemmas and issues that may arise in management accounting and control and propose ethical solutions
- To create management reports that summarise financial and non-financial information for decision-making

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the methods in management accounting and control	K1, K2
CO2	Identify and analyse problems and solutions in real-life situations	K3
CO3	Distinguish between levels of analysis for different variables for problems associated with management control	K4
CO4	Critically discuss the reasons to and consequences of Management Accounting and Control on various levels of analysis	K5
CO5	Develop strategies to improve the financial performance of a business based on financial analysis	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Management Accounting and Control 1.1 Management Accounting – Meaning, Objectives and Functions	K1-K2	3	1
	1.2 Nature and Scope of Management Accounting	K1-K3	2	1-2
	1.3 Difference between Cost and Management Accounting	K1-K4	2	1-3
	1.4 Role of Management Accounting in Decision Making and Control	K1-K5	3	1-4
2	Traditional and Modern Techniques of Control 2.1 An Overview of Traditional Techniques - Budgetary Control - Standard Costing - Financial Ratio Analysis - Internal Audit - Break-even Analysis	K1-K5	10	1-4
	2.2 Modern Techniques 2.2.1 Responsibility Accounting	K1-K6	2	1-5
	2.2.2 Management Audit		2	
	2.2.3 PERT and CPM		2	
	2.2.4 Management Information System		2	
3	Managerial Decision Making and Control 3.1 Introduction - Decision making process	K1-K4	2	1-3
	3.2 Differential analysis	K1-K6	3	1-5
	3.3 Types of managerial decisions	K1-K4	3	1-3
	3.4 Steps in decision making - Quantitative analysis and decision making	K1-K6	4	1-5
4	Trends in Management Accounting and Control 4.1 Inflation Accounting	K1-K5	3	1-4
	4.2 Quality Costing	K1-K5	3	
	4.3 Human Resource Accounting	K1-K5	3	
	4.4 Value Added Accounting	K1-K5	3	

UNIT	CONTENT	CL	Hrs	CO
5	Ethical Aspects of Management Accounting and Control			
	5.1 Stakeholder influence on organisation – Mendelow’s matrix	K1-K6	3	1-5
	5.2 Social and ethical issues impacting the strategy formulation	K1-K5	3	1-4
	5.3 Environmental Management Accounting	K1-K4	3	1-3
	5.4 Ethical Dilemmas in Management Accounting and Control	K1-K5	4	1-4

BOOKS FOR STUDY

ACCA BPP Performance Management (PM)

Sanjay C.A., Advanced Management Accounting – Volume I & II, Aggarwal Pooja Law & Co., 2019

Ravi M. Kishore, Advanced Management Accounting, Taxman Publications Pvt. Ltd., 2013

BOOKS FOR REFERENCE

ACCA Kaplan Performance Management (PM)

Ved Prakash, Accounting for Managerial Decisions, Anmol Publications, 2006

Tulsian P.C, Bharat Tulsian, Advanced Management Accounting, S.Chand, 2012

Norman B Macintosh, Paolo Quattrone, Management Accounting & Control System, John Willey & Sons, 2010

Jerold Zimmermon, Accounting for decision making and control -10th edition, McGraw Hill, 2019

M.Y.Khan, P.R.Jain, Management Accounting -Text, Problems and cases, Tata McGraw Hill Education

Pillai R.S.N., Bagavathi, Management Accounting, S.Chand

Robert S.Kaplan, Anthony L. Atkinson, Advanced Management Accounting

B. Sarvana Prasath, *A Ready Referencer on Advanced Management Accounting*, Wolters Kluwer India Pvt Ltd., 2018

JOURNALS

Journal of Management Accounting

Research. Management Accountant Journal

Journal of Cost Accounting Research.

WEB RESOURCES

www.icsi.org

www.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/MA44												
	Course Title: MANAGEMENT ACCOUNTING AND CONTROL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	1	1	1	2	2	2	2	2
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CO 3	3	3	3	2	3	1	1	1	3	2	2	2	3
CO 4	3	3	3	2	3	1	2	1	3	2	3	2	3
CO 5	3	3	3	2	3	1	2	2	2	3	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

DIRECT TAXATION

CODE: 23BH/MC/DT44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To comprehend Income tax structure and its complexities
- To identify the significance and constitutional provisions relevant to direct tax
- To understand the procedure for computing taxable income from different heads
- To provide a broad conceptual framework for determining the taxable income and tax liability of an individual
- To familiarize the provisions relating to setoff and carry forward of losses and deductions applicable to an individual

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Demonstrate knowledge of concepts, principles and rules of taxation of individuals	K1, K2
CO2	Apply their knowledge to compute the income of individuals under different heads of income and determine tax liability	K3
CO3	Analyse the complex tax issues and recommend tax saving strategies	K4
CO4	Evaluate the effectiveness of different tax strategies and their impact on tax compliance	K5
CO5	Develop and implement tax planning strategies that meet the needs of individual taxpayers while complying with relevant tax laws and regulations.	K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Taxation	K1-K2	1	1
	1.1 Meaning of Tax, Importance and Features of Taxation		2	
	1.2 Types of tax – Direct and Indirect		3	
	1.3 Basic concepts – Person, Assessee, Assessment year, Previous year, Total income, Taxable Income	K1-K6	4	1-5
2	Computation of Salary income	K1-K3	2	1-2
	2.1 Definition, Meaning, Basis of Charge	K1-K4	4	1-3
	2.2 Allowances – Taxable and Exempted	K1-K6	4	1-5
	2.3 Perquisites		2	
	2.4 Other Receipts and Treatment of Provident Fund		3	
3	2.5 Deductions			
	3.1 Computation of Income from House Property	K1-K3	3	1-2
	3.1.1 Basis of Charge	K1-K6	4	1-5
	3.1.2 Computation of House Property Income		3	
	3.1.3 Deductions	K1-K5	2	1-4
	3.2 Profits and Gains of Business or Profession		2	
4	3.2.1 Computation of Professional Income		2	
	3.2.2 Depreciation – Meaning and Relevance - Computation	K1-K2	1	1
	3.2.3 Computation of Business Income		2	
	4.1. Capital Gains	K1-K5	2	1-4
	4.1.1 Meaning of Capital Asset - Types of Capital Assets	K1-K3	2	1-2
4	4.1.2 Computation of Short Term and Long Term Capital Gains			
	4.1.3 Exempted Capital Gains			
	4.2. Income from other sources	K1-K3	2	1-2
4	4.2.1 Basis of Charge, Casual and Other income	K1-K5	2	1-4
	4.2.2 Computation of Taxable Income from Other Sources			

UNIT	CONTENT	CL	Hrs	CO
5	5.1 Computation of Total income	K1-K5	2	1-4
	5.1.1 Set-off and Carry Forward of losses		2	
	5.1.2 Clubbing of Income		2	
	5.1.3 Deductions - Individual	K1-K6	2	1-5
	5.1.4 Computation of tax liability		3	
	5.2 E-filing & Submission of Returns	K1-K3	1	1
	5.2.1 E-filing – Concept – Procedure		1	1-2
	5.2.2 26AS - TDS – Traces		2	
	5.2.3 Filing of Return – Various Returns		2	
	5.2.4 Permanent Account Number (PAN) – Usage of PAN			

BOOKS FOR STUDY

Gaur V.P. and Narang D.B., *Income Tax Law and Practice*, New Delhi: Kalyani Publishers
Singhania, Vinod K. and Singhania, Monica, *Students' Guide to Income Tax*, New Delhi: Taxmann Publication

BOOKS FOR REFERENCE

Dinkar Pagare, *Law and Practice of Income Tax*, New Delhi: Sultan Chand Publications
Ahuja, Girish and Gupta, Ravi, *Systematic Approach to Income Tax*, New Delhi: Bharat Law House
Lal B.B. and Vashisht, N., *Income Tax Law and Practice*, New Delhi: IK International Publishing House
Singhania, Vinod K. and Singhania, Monica, *Students' Guide to Income Tax*, New Delhi: Taxmann Publication

Note: Latest edition of the readings to be used

JOURNALS

Journal of Taxation
Journal of Accounting and Taxation
Journal of Indian Taxation

WEB RESOURCES

www.incometaxindia.gov.in
www.taxlawsonline.com
www.taxmann.com

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/DT44												
	Course Title: DIRECT TAXATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	1	1	1	1	2	2	1	1	1
CO 2	3	3	3	1	3	2	1	1	2	2	2	1	1
CO 3	3	3	3	1	3	2	1	1	2	1	1	1	1
CO 4	3	3	3	1	2	1	1	1	2	2	1	1	1
CO 5	3	3	3	1	2	2	2	1	3	2	2	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

FINANCIAL MANAGEMENT

CODE: 23BH/MC/FM44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the importance of profit and wealth maximisation in an organisation
- To introduce the various investment appraisal techniques
- To examine the need for working capital management
- To familiarise with the concepts and techniques of dividend decision
- To develop the knowledge on the hedging techniques

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand basic financial management concepts	K1
CO2	Explain the relationship between different financial management techniques	K2
CO3	Apply the techniques of investment proposals	K3
CO4	Analyse the financial decisions relating to capital structure, working capital, dividend	K4
CO5	Interpret and develop new solutions related to financial management problems	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Corporate Financial Objectives and Functions 1.1 Nature, Importance and Objectives of Financial Management	K1-K2	2	1-2
	1.2 Scope of Financial Management -Profit Maximization and Wealth Maximization		2	

UNIT	CONTENT	CL	HRS	CO
	1.3 Functions of finance - finance, investment, dividend decisions	K1-K3	4	1-3
	1.4 Time value of money – Meaning, Time Preference, Future value and Present value	K1-K4	4	1-4
2	Working Capital Management 2.1 Working capital - Meaning, needs, Cash operating cycle	K1-K3	2	1-3
	2.2 Inventory – EOQ and JIT	K1-K4	3	1-4
	2.3 Management of Receivables	K1-K6	3	1-5
	2.1 Management of Cash, Cash management models		3	
	2.2 Working capital strategies, levels, Working Capital Cycle, WC ratios	K1-K6	3	1-5
3	Financing and Dividend Decisions 3.1 Cost of capital - Meaning, Classification	K1-K2	2	1-2
	3.2 Computation of Specific cost of capital	K1-K4	3	1-4
	3.3 Leverages- Types, EBIT, EBT analysis	K1-K6	3	1-5
	3.4 Capital structure- Meaning and Theories		2	
	3.5 Dividend decision 3.5.1 Meaning, Types, Factors affecting dividend	K1-K3	1	1-2
	3.5.2 Forms of Dividend and Dividend Theories	K1-K4	3	1-3
4	Long term investment decisions 4.1 Meaning, Importance, Process	K1-K2	1	1-2
	4.2 Traditional techniques – Payback period, ARR	K1-K5	3	1-5
	4.2.1 Discounted techniques – NPV, IRR, PI		3	
	4.2.2 Capital Rationing		2	
	4.3 Risk analysis in Capital Budgeting Decisions, Sources of Risk, Risk adjusted Discount rate.	K2-K6	3	2-5
	4.3.1 Coefficient of variation	K2-K4	2	2-4
	4.3.2 Decision Tree analysis	K3-K6	2	3-5

UNIT	CONTENT	CL	HRS	CO
5	Hedging Techniques 5.1 Nature, types, Foreign currency risks and Interest rate risks.	K1-K3	2	1-3
	5.2 Exchange rate differences - PPPT, IRPT, Yield Curves	K2-K5	3	2-5
	5.3 Hedging Techniques for foreign currency risk	K2-K6	2	2-5
	5.4 Hedging Techniques for Interest rate risk		2	

BOOKS FOR STUDY

ACCA BPP Financial Management (FM)

Pandey I. M., *Financial Management*, New Delhi Vikas 2015

Prasanna Chandra, *Fundamentals of Financial Management*, New Delhi, Tata McGraw Hill 2020

BOOKS FOR REFERENCE

ACCA Kaplan Financial Management (FM)

James C. Van Horne, *Financial Management and Policy*, New Delhi. Prentice Hall of India

Khan M.Y. and Jain P.K. *Basic Financial Management*, New Delhi. Tata McGraw Hill

Maheshwari S. N., *Financial Management*, New Delhi. Vikas

Ravi M. Kishore, *Taxmann's Financial Management*, New Delhi. K. L., Taxmann

JOURNALS

Journal of Banking and Finance

Journal of Finance

Journal of Financial Economics

Student Accountant

WEB RESOURCES

www.cfainstitute.org/cfaprogram

www.icaai.org www.icsi.edu

www.icwai.org

www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
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C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/FM44												
	Course Title: FINANCIAL MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	1	1	3	2	2	2	2
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CO 3	3	2	2	2	2	2	1	1	3	2	1	1	2
CO 4	3	2	2	2	2	2	1	1	3	2	1	1	2
CO 5	3	2	2	2	3	2	1	1	2	2	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

STRATEGIC MANAGEMENT CONCEPTS

CODE: 23BH/MC/SC44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To understand the nature and dynamics of the strategy formulation and implementation processes as they occur in complex organizations
- To improve the understanding of the framework of strategic management
- To impart knowledge on the leadership styles
- To develop and communicate strategic plans and initiatives to various stakeholders
- To construct strategies based on performance data and changing circumstances

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the fundamental concepts and describe the role and components of Strategic Management	K1
CO2	Identify strategies and models involved in strategic choice	K2
CO3	Analyse and critique strategic decisions considering the impact on organisation	K3,K4
CO4	Evaluate the effectiveness of a company's strategy and recommend changes to an existing strategy	K5
CO5	Design a comprehensive strategic plan incorporating all the elements of Strategic Management process	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Concepts in Strategic Management.	K1-K3	2	1-3
	1.2 Strategic Management as a Process		2	
	1.3 Developing a Strategic Vision, Mission, Objectives, Policies	K1-K6	4	1-5
	1.4 Factors that shape a Company's Strategy	K1-K5	2	1-4
	1.5 Crafting a Strategy – Industry and Competitive Analysis	K1-K6	3	1-5
2	Environmental Scanning and Leadership	K1-K6	3	1-5
	2.1 Methods – SWOT Analysis – Strategic and Competitive Advantages in Diversified Companies and its Evaluation			
	2.2 Strategic Analysis and Choice - Tools and Techniques	K1-K5	3	1-4
	2.3 Strategic Leadership – Leadership and Style		3	
	2.4 Key Strategic Leadership Actions	K1-K3	3	1-3
	2.5 Developing Human Capital and Social Capital – Balance Scorecard	K1-K6	3	1-5
3	Strategic Formulation	K1-K5	4	1-4
	3.1 Formulation of Strategy at Corporate, Business and Functional Levels			
	3.2 Types of Strategies – Tailoring Strategy to Fit Specific Industry	K1-K6	4	1-5
	3.3 Restructuring and Diversification Strategies		4	
4	Strategic Implementation	K1-K3	2	1-3
	4.1 Strategy and Structure			
	4.2 Leadership, Culture Connection	K1-K4	3	1-3
	4.3 Strategies for Competing in Globalising Markets and Internet Economy		3	
	4.4 Organisational Values and their Impact on Strategy	K1-K5	2	1-4
	4.5 Resource Allocation – Planning Systems for Implementation		3	

UNIT	CONTENT	CL	HRS	CO
5	Strategy Evaluation and Control			
	5.1 Establishing Strategic Controls	K1-K4	2	1-3
	5.2 Measuring Performance – Appropriate Measures	K1-K5	2	1-4
	5.3 Role of the Strategist – Using Qualitative and Quantitative Benchmarking to Evaluate Performance	K1-K4	3	1-3
	5.4 Strategic Information Systems – Problems in Measuring Performance	K1-K6	3	1-5
	5.5 Strategic Surveillance -Strategic Audit	K1-K3	2	1-2

BOOKS FOR STUDY

ACCA BPP Strategic Business Leader (SBL)

Vijaya Kumar P., Hitt A: Strategic Management, Cengage learning, NewDelhi,2010

JohnAPearceII,Amita Mital: “Strategic Management”,TMH, NewDelhi,2012.

BOOKS FOR REFERENCE

ACCA Kaplan Strategic Business Leader (SBL)

SanjayMohapatra: “Cases Studies in Strategic Management”, Pearson,NewDelhi,2012

Adrian Haberberg&Alison: Strategic Management, Oxford University Press, NewDelhi, 2010

P.Subba Rao: “Business Policy and Strategic Management” Text and Cases, Himalaya Publishing House, New Delhi, 2011

AppaRao,Parvatheshwar Rao, Shiva Rama Krishna: “Strategic Management andBusiness Policy”,ExcelBooks, New Delhi, 2012

Sharma, J. P. *Corporate Governance Business Ethics & CSR*. New Delhi: Ane Books 2018

JOURNALS

Strategic Management Journal

International Journal of Strategic Management and Decision Making

Academy of Strategic Management Journal

WEBSITES

www.tutorialspoint.com

managementhelp.org/businessethics/index

www.bigcommerce.com

www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/SC44												
	Course Title: STRATEGIC MANAGEMENT CONCEPTS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	1	1	2	1	1	1	3
CO 2	3	1	2	2	2	3	1	1	1	1	1	1	3
CO 3	3	2	2	2	2	1	1	1	1	1	1	1	3
CO 4	3	3	1	2	1	2	1	1	1	1	1	1	3
CO 5	3	3	2	2	2	2	1	1	1	1	1	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNSHIP

CODE: 23BH/MC/IN44

CREDITS: 4

Internship is an integral part of the B.Com (Hons) Programme. To enable students to face the challenges of the business world, Internship Training is important. It plays a vital role in implementing theoretical knowledge and gaining practical exposure from the industry/organisation.

COURSE OUTCOMES FOR INTERNSHIP

- Apply theoretical knowledge gained in academic courses to real-world situations.
- Develop a better understanding of workplace dynamics, professional etiquette, and industry standards
- Build valuable connections for future career opportunities

OBJECTIVES OF INTERNSHIP

- To integrate theory and practise
- To gain working experience in a real working environment
- To engage in teams for execution of work assigned
- To widen their social and cultural experience
- To expose students to a wide spectrum of professional services in the field of commerce
- To gain insight on organization structure and its roles and responsibilities
- To help students identify and develop professional skills

GUIDELINES:

- The student will undergo practical training in a reputed organization for 60 hours
- The student is expected to work in the Finance department at least for 40 hours and the remaining 20 hours in other departments
- The student is required to maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
Hours worked, Nature of work performed, Signature of the supervisor
- An Interim report to be submitted to faculty advisor after completion of 30 hours
- A final consolidated report to be submitted to faculty advisor

Preparation of Final Report

The report should have a minimum of 50 pages detailing the work assigned and performed in the organization - Introduction of the Organisation/ Practical Aspects of Internship - Experience/Suggestions/Challenges/Conclusion

Pattern of Evaluation

Internship Report Evaluation:

Rubrics for Evaluation	Marks	Cognitive Level
Log book	10	K1
Interim Report	20	K2
Project report	40	K3-K4
Viva	30	K5
	100	

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/IN44												
	Course Title: INTERNSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

BOARDROOM ETIQUETTE

CODE: 23BH/SS/BE40

CREDITS: 0

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce students to boardroom etiquette and practices
- To help students comprehend the importance of networking, communication, and time management skills for career success
- To enable students understand the applications of skills in the contemporary context

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Identify basic concepts related to business etiquette and corporate grooming
- Discuss the concepts in the context of effective writing and business correspondence
- Discuss its applications in different settings
- Appreciate the key minimum standards required by etiquette practice

Unit 1 (6 hours)

Business Communication

- 1.1 Business Correspondence
- 1.2 Business Attire
- 1.3 Personality Enrichment

Unit 2 (10 hours)

Business Protocol

- 2.1 Cubicle Protocol and Time Management
- 2.2 Etiquette in Meetings
- 2.3 The Art of Small Talk
- 2.4 Creating and Maintaining Personal Brand

Unit 3 (10 hours)

Handling of Issues

- 3.1 Data Visualization and Presentation
- 3.2 Nurturing Career Within Company
- 3.3 Dealing with Key Decision Makers
- 3.4 Handling Social Situations, Handling Sensitive Issues: Courtesy and Building Trust

BOOKS FOR STUDY

Ann Marie, *Business Etiquette: 101 Ways to Conduct with Charm & Savvy*, FW Media, 2010
Slater, Rus, *Getting Things Done, Collins Business Secrets*, William Collins, 2010

BOOKS FOR REFERENCE

Oliver, John P., Robins, Richard W., Pervin, Lawrence A., *Handbook of Personality, Theory and Research*, 3rd Edition, Guilford Press, 2011
Henney, Nella, *The Book of Business Etiquette*, Franklin Classics, 2018
Thomas, Rosanne J., *Excuse Me: Survival Guide to Modern Business Etiquette*, Amacom Publications, 2017

WEB RESOURCES

www.cyborlink.com
www.businessinsider.com

PATTERN OF EVALUATION

List of Evaluation modes: **Total Marks: 50**
Seminars/Assignments/Case Studies

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A / B.C.A/ B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23BH/GC/ES42

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water)and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

COMPUTER APPLICATIONS IN BUSINESS

CODE: 23BH/MC/CB54

CREDITS: 4

L T P: 0 1 4

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To give a practical exposure to the various statistical methods and arrive at rational decision through systematic analysis and interpretation
- To understand the effective and efficient application of various statistical tools associated with research in business
- To acquaint with the recent technologies used in business
- To generate Accounting and Inventory Masters, Vouchers and Basic reports in Tally
- To use spreadsheets for business data analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Demonstrate understanding of the modern technologies used in business	K1, K2
CO2	Use software to perform statistical analysis	K3
CO3	Compute the value of a project using computer software	K4
CO4	Prepare plans and budgets using software	K5
CO5	Generate financial statements using software	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Accounting Package - Tally 1.1 Introduction to Tally	K1	2	1
	1.2 Creation, Alteration and Deletion of a Company	K3-K4	2	2-3
	1.3 Creation, Alteration and Deletion of Groups and Ledgers	K3-K4	2	2-3
	1.4 Accounting Vouchers – Types, Voucher Entry	K3-K4	5	2-3

UNIT	CONTENT	CL	HRS	CO
	1.5 Preparation of Financial Statements – Day Book, Trial Balance, Profit and Loss Account and Balance Sheet - Moving Data to Excel from Tally	K5-K6	4	4-5
2	Analysis using MS Excel 2.1 Introduction to Excel	K1	2	1
	2.2 Formatting Worksheets	K3-K4	3	2-3
	2.3 Mathematical and Statistical Operations, Text, Logical, Lookup and References using Excel Functions		4	
	2.4 Presentation of Data in MS Excel using Graph, Tables and PIVOT table	K4-K6	4	3-5
	2.5 Named Ranges in MS Excel	K5-K6	2	4-5
3	Business Evaluation & Control Techniques using Excel 3.1 Evaluation Techniques – Payback Period, NPV and IRR methods	K5-K6	3	4-5
	3.2 Preparation of Master Budgets	K3-K4	4	2-3
	3.3 Time Value of Money - Future and Present Value of Money and Annuity	K4-K6	3	3-5
4	Financial Statement Analysis using Excel 4.1. Techniques of Financial Statement Analysis 4.1.1 Comparative Statements	K1-K6	3	1-5
	4.1.2. Common Size Statements		3	
	4.1.3. Trend Percentages		3	
	4.2 Cash Flow Analysis		4	
5	Application of MS Excel and SPSS in Statistics 5.1. Univariate analysis	K4-K6	2	3-5
	5.2. Correlation Analysis – Correlation Coefficient	K5-K6	2	4-5
	5.3. Regression Analysis – Regression Equations	K3-K6	2	3-5
	5.4. Testing of Hypothesis for Small Sample	K3	2	2
	5.5. Application of Chi-Square Test – Test of goodness fit and Test of Independence	K3	2	2
	5.6. Analysis of Variance	K4	2	3

BOOKS FOR STUDY

Nadhani, A.K. and Nadhani K.K, *Implementing Tally 9*, BPB Publications, 2009.

Frye Curtis, *Microsoft Excel 2016 Step by Step*, Microsoft Press, 2015.

BOOKS FOR REFERENCE

Deepak Jain, *Computer Applications in Business*, Kolkatta : Lawpoint Publications, 2008

Bodhanwala, J. Ruzbeh, *Understanding and Analysing Balance Sheets using Excel Worksheet*, Prentice Hall, 2004.

John, E. Harker, Dean W. Wichern, Arthur G. Reitsch, *Business Forecasting*, Prentice Hall of India Pvt. Ltd., 2012.

Bernd Held, *Excel 2016 Functions & Formulas*, BPB Publications, 2015.

JOURNALS

Indian Journal of Computer Application

Journal of Statistical Software

Journal of Modern Applied Statistical Methods

Chilean Journal of Statistics

WEB RESOURCES

<http://www.ecommerce-digest.com/online-academic-journals.html><http://tutorial.html>

<https://www.tallyschool.com/free-tally-course-online/>

<https://tallysolutions.com/id/using-tally-want-learn/>

<https://excelexposure.com>

PATTERN OF ASSESSMENT

Only Practical

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (5)	$1 \times 5 = 5$	1 K1 question	1 K1 question
B	K2, K3, K4 (30)	$3 \times 10 = 30$	3 questions	3 questions (1 question each from K2, K3 & K4)
C	K5, K6 (15)	$1 \times 15 = 15$	1 question with subsections for K5 and K6	2 questions with subsections for K5 and K6
	Total	50	5	6

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (5)	$2 \times 5 = 10$	2 K1 questions	2 K1 questions
B	K2, K3, K4 (30)	$6 \times 10 = 60$	6 questions	6 questions (2 questions each from K2, K3 & K4)
C	K5, K6 (15)	$2 \times 15 = 30$	2 questions with subsections for K5 and K6	3 questions with subsections for K5 and K6
	Total	100	10	11

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/CB54												
	Course Title: COMPUTER APPLICATIONS IN BUSINESS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	3	1	1	3	3	2	1	2
CO 2	3	3	3	1	3	3	1	1	3	3	3	1	2
CO 3	3	3	3	1	3	3	1	1	3	3	3	1	3
CO 4	3	3	3	1	3	3	1	1	3	3	3	1	3
CO 5	3	3	3	1	3	3	1	1	3	3	3	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE ACCOUNTING

CODE: 23BH/MC/CG55

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarise the accounting treatment for issue of shares and debenture to run the company with long term source of funds
- To prepare the financial statements of Joint Stock Companies
- To expose students to planning for intermediate and long-term finances through the preparation of cash flow statements
- To acquaint with the process of redemption of shares and debentures
- To introduce the principles and concepts underlying corporate accounting as per IAS and IFRS

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the principles and concepts underlying corporate accounting such as IAS and IFRS	K1
CO2	Illustrate the accounting methods for issue of shares and debentures redemption	K2
CO3	Apply the conceptual knowledge in the preparation of financial statements	K3
CO4	Analyze financial data to make informed decisions about a corporation's financial health	K4
CO5	Prepare financial statements of publicly traded corporations	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENTS	CL	HRS	CO
1	Accounting for Share Capital and Debentures			
	1.1 Introduction to Issue of Shares and Debentures	K1-K3	3	1-3
	1.2 Issue of Rights and Bonus Shares	K1-K4	4	1-4
	1.3 Relevant IAS and IFRS as Applicable	K2-K6	3	2-5
2	Issue and Redemption of Preference Shares			
	2.1 Meaning – Guidelines for Issue and Redemption of Preference Shares	K1-K3	3	1-3
	2.2 Redemption at Par and at Premium – Redemption out of Revenue reserve and out of Fresh Issue	K1-K4	4	1-4
	2.3 Bonus Issue out of Capital Redemption Reserve		4	
	2.4 Relevant IAS and IFRS as Applicable	K2-K6	4	2-5
3	Redemption of Debentures			
	3.1 Introduction - Redemption of Debentures	K1-K3	3	1-3
	3.2 Sinking/Debenture Redemption Fund	K1-K4	4	1-4
	3.3 Open Market Purchase and Conversion of Debentures		4	
	3.4 Relevant IAS and IFRS as Applicable	K2-K6	4	2-5
4	Financial Statements of a Company			
	4.1 Preparation of Financial Statement of Single Entity Joint Stock Companies as per Schedule III Part I & II (Division I in detail and Division II an overview)	K1-K5	6	1-5
	4.2 Relevant IAS and IFRS as Applicable	K2-K6	4	2-5
5	Cash Flow Statements			
	5.1 Meaning – Importance	K1	3	1
	5.2 Preparation of a Cash Flow Statement in Accordance with Accounting Standard 3	K1-K5	6	1-5
	5.3 Limitations of Cash Flow Statements	K2	2	2
	5.4 Relevant IAS and IFRS as Applicable	K2-K6	4	2-5

BOOKS FOR STUDY

ACCA BPP Strategic Business Reporting (SBR)

Reddy, T.S. Murthy, A., *Corporate Accounting Vol II Revised*, Margham Publications, Chennai, Reprint 2016

Maheshwari, S.N., Maheshwari, Suneel K., and Maheshwari, Sharad K., *Corporate Accounting*, Vikas Publishing House, 2018

BOOKS FOR REFERENCE

ACCA Kaplan Strategic Business Reporting (SBR)

Goyal , V.K. and Goyal, Ruchi, *Corporate Accounting*, Prentice Hall Learning, 2012

Shukla, S.M. and Gupta, K.L., *Corporate Accounting*, Sahitya Bhawan Publications, 2018

Gupta, R.L. and Radhaswamy, M., *Corporate Accounting Vol. I and II*, Sultan Chand & Sons, 2013

Jain, S.P. Narang, K.L., *Advanced Accountancy Corporate Accounting (Part II)*, Kalyani Publishers, 2014

JOURNALS

Advances in Accounting

Journal of Finance

Indian Journal of Commerce

Journal of Corporate Accounting and Finance

WEB RESOURCES

www.icaai.org

www.emeraldgroupublishing.com

www.journals.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/CG55												
	Course Title: CORPORATE ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	1	2	1	1	1	3	3	3	3	1
CO 2	3	3	2	1	2	1	1	1	3	3	3	3	1
CO 3	3	2	3	1	1	1	1	1	3	3	3	3	1
CO 4	3	2	3	1	1	1	1	1	3	3	3	3	1
CO 5	3	3	1	1	3	1	1	1	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS) - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

PERFORMANCE MANAGEMENT

CODE: 23BH/MC/PM54

CREDITS : 5

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an in-depth understanding of strategic performance measurement
- To analyse divisional performance and transfer pricing issues
- To provide comprehensive knowledge on the performance management strategies
- To enable critical understanding of corporate failures
- To familiarise students with quality improvement methods

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the influence of performance management and quality control on the organisation's productivity	K1, K2
CO2	Apply appropriate strategic performance measurement techniques in evaluating and improving organisational performance	K3
CO3	Analyse data to identify trends, gaps and opportunities for improvement in organisational performance and quality	K4
CO4	Evaluate key performance indicators and quality metrics that align with company's strategic objectives	K5
CO5	Develop and implement effective performance measurement and quality control systems to monitor and track organisational performance and ensure adherence to quality standards	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Strategic Performance Measurement			
	1.1 Strategic Performance Measures in Private Sector	K2	2	1
	1.2 Different Measures of Performance	K1-K3	2	1-2
	1.3 Indicators of Liquidity and Gearing	K2-K6	2	1-5
	1.4 Use of Benchmarks in Assessing the Performance		2	
	1.5 Strategic Performance Measures in Not for Profit Sector	K3-K6	4	2-5
2	Divisional Performance and Transfer Pricing Issues	K1-K6	3	1-5
	2.1 ROI, RI and Economic Value Added measures			
	2.2 Need for Separate Measures in respect of Managerial and Divisional Performance	K2-K3	3	1-2
	2.3 Circumstances in which a Transfer Pricing Policy may be needed	K2-K4	3	1-3
	2.4 Alternative Bases for Transfer Pricing	K3-K5	3	2-4
3	Non-Financial Performance Indicators and Quality Control	K1-K5	3	1-4
	3.1 Interaction of Non-Financial Indicators with Financial Performance Indicators			
	3.2 Significance and Difficulties of Non-Financial Performance Indicators	K2-K3	2	1-2
	3.3 Japanese Business Practices and Management Accounting Techniques for Quality	K3-K5	3	2-4
	3.4 Six Sigma as a Quality Improvement Method	K3-K6	3	2-5
	3.5 Issues Related to Remuneration and Rewards	K1-K3	3	1-2
4	Sourcing and Coordination in Supply Chain			
	4.1 Role of Sourcing in Supply Chain- Supply Selection Assessment and Contracts	K2-K3	3	1-2
	4.2 Source Planning and Analysis- Bull Whip Effect	K3-K5	3	2-4
	4.3 Supply Chain Coordination- Effect of Lack of Coordination, Obstacles	K2-K4	3	1-3
	4.4 Building Strategic Partnership and Trust within a Supply Chain	K2-K6	3	1-5

5	Performance Evaluation and Corporate Failure 5.1 Alternative Views of Performance Measurement and Management – Balanced Scorecard, Performance Pyramid, Fitzgerald and Moon, Activity-Based Management, Value-Based Management	K1-K6	3	1-5
	5.2 Strategic Performance Issues in Complex Business Structures – Problems and Impact		3	
	5.3 Predicting and Preventing Corporate Failure – Z scores and Argenti Models		3	
	5.4 Critique Quantitative and Qualitative Corporate Failure Prediction Models	K4-K6	3	3-5
	5.5 Performance Improvement Strategies and Changes to Performance Management Systems	K3-K6	3	2-5

BOOKS FOR STUDY

ACCA BPP Advanced Performance Management (APM)

Ravi M.Kishore, Strategic Performance Management, Taxmann, 2014

BOOKS FOR REFERENCE

ACCA Kaplan Advanced Performance Management (APM)

Joel D. Wisner G. Keong Keah Chaontan., *Principles of Supply Chain Management a balanced approach*, 3rd edition 2011.

Bhatia S.K., Performance Management : Concepts, Practices, and Strategies for organisation, Deep and Deep Publications, 2007

Robert Cardy, Brian Leonard, Performance Management: Concepts, Skills and Exercises, Routledge, 2014

JOURNALS

International Journal on Supply Chain Management

International Journal of Physical Distribution and Logistics management

WEB RESOURCES

www.esourcingforum.com

www.supplychaindigital.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
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	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/PM54												
	Course Title: PERFORMANCE MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	2	2	2	1	1	1	1	1	1	2
CO 2	3	3	2	2	2	2	1	1	1	1	1	1	2
CO 3	3	3	2	2	2	2	1	1	1	1	1	1	2
CO 4	3	3	2	2	2	3	1	1	1	1	1	1	2
CO 5	3	3	2	2	2	3	1	1	1	1	1	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS POLICY AND ENVIRONMENT

CODE: 23BH/MC/BP54

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To familiarise the fundamental concepts in business policies
- To sensitize students on the business environment and culture
- To develop skills for decision making
- To provide an understanding of business continuity plan
- To evaluate the internal strengths and weaknesses of the business

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the various government policies that affect business operations	K1, K2
CO2	Apply knowledge of the external environment to analyze and develop business strategies	K3
CO3	Analyse the effects of different government policies on business operations	K4
CO4	Evaluate the ethical implications of different business policies and practices	K5
CO5	Develop creative solutions to complex business policy and environment issues	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Business Policies 1.1 Introduction	K1,K2	2	1
	1.2 Overview- Importance of Business Policies		3	
	1.3 Definitions of Policy, Procedure, Process and Programmes	K1-K4	2	1-3
	1.4 Types of Policies, Business Policy Statements	K1-K3	3	1-2
2	Business Policy and Decision Making 2.1 Factors Considered Before Framing Business Policies	K1-K5	2	1-4
	2.2 Steps Involved in Framing Business Policies	K1-K6	3	1-5
	2.4 Policy Cycle and its Stages – Implementation of Policy Change		3	
	2.4 Role of Policies in Strategic Management	K1-K4	2	1-3
3	Business Continuity Plan 3.1 Introduction	K1-K2	1	1
	3.2 Concepts of Business Continuity Plan (BCP)	K1-K3	2	1-2
	3.3 Relevance and Importance of BCP		2	
	3.4 Steps in Business Continuity Plan - Business Impact Areas	K1-K6	2	1-5
	3.5 BCP and its Influence on Strategic Management and Policy Making		3	
	3.6 Contingency Planning	K1-K5	2	1-4
4	Business Environment 4.1 Introduction – Nature and Significance	K1,K2	2	1
	4.2 Elements of Environment – Internal and External	K1-K4	3	1-3
	4.3 Changing Dimensions of Business Environment		2	
	4.4 Environmental Scanning - Techniques	K1-K6	3	1-5
5	Culture in an Organisation 5.1 Meaning and Need of Business Culture	K1-K2	3	1
	5.2 Theories on Culture – Schein’s Theory on Culture, Handy’s Cultural Types, Hofstede’s National Cultural Differences	K4-K5	4	3-4
	5.3 Cultural Web	K1-K3	3	1-2

BOOKS FOR STUDY

ACCA BPP Strategic Business Leader (SBL)

Aswathappa K., Essentials of Business Environment, Himalaya Publishing House, 2023.

Karnataka Open University, Business Policy and Environment, KSOU, 2022

BOOKS FOR REFERENCE

ACCA Kaplan Strategic Business Leader (SBL)

Nitin Balwani, Strategic Management and Business Policy, Excel Books, 2002

Sharma, J. P. *Corporate Governance Business Ethics & CSR*. New Delhi: Ane Books 2019

Mishra P.K., Sukul Lomash, Business Policy and Strategic Management, Vikas Publishing, 2003

Michael V.P., Business Policy and Environment, S.Chand, 2010.

Joseph R, Business Policy and Environment, STM Traders Pvt.Ltd, 2006.

JOURNALS

Business and Professional Ethics Journal

The International Journal of Corporate Social Responsibility (JCSR)

International Journal of Corporate Governance (IJCG)

Student Accountant

WEBSITES

www.tutorialspoint.com

managementhelp.org/businessethics/index

www.bigcommerce.com

www.accaglobal.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/BP54												
	Course Title: BUSINESS POLICY AND ENVIRONMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	1	2	1	1	3	1	1	1	1
CO 2	3	3	3	1	2	2	1	1	3	1	2	1	3
CO 3	3	3	3	1	2	2	1	1	3	1	2	1	3
CO 4	3	3	3	1	2	2	3	1	3	1	1	1	3
CO 5	3	3	3	1	1	1	3	1	3	1	1	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

RESEARCH METHODOLOGY

CODE: 23BH/MC/RM54

CREDITS: 4

LTP: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce the basic concepts in research methodology in social science
- To comprehend the process and techniques of conducting research
- To familiarise the techniques of data collection, analysis of data and interpretation
- To identify and overcome the issues in selecting a research problem
- To enable students to write research proposals

COURSE LEARNING OUTCOMES

On successful completion of the course, student will be able to

COs	DESCRIPTION	CL
CO1	Know the concepts of Research	K1,K2
CO2	Analyse quantitative and qualitative data	K3
CO3	Frame research questions to meet the research objectives	K4
CO4	Discuss limitations and potential contribution to theory and practice of research	K5
CO5	Construct and document an appropriate research design	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENTS	CL	HRS	CO
1	Introduction			
	1.1 Research – Meaning - Definition – Characteristics – Purpose – Types – Significance	K1-K2	2	1
	1.2 Attributes of a Good Research and a Good Researcher	K2	2	1
	1.3 Business Research- Research and Business Decisions	K1-K6	2	1-5
	1.4 Ethics in research - Scope of Research in Business and Commerce – Research in India	K1-K4	2	1-3
	1.5 Formulation of Research Problem – Criteria, Sources, Selection of Research Problem	K1-K5	2	1-4
2	Literature Review and Research Design			
	2.1 Literature Review			
	2.1.1 Sources – Library Usage	K1-K2	1	1
	2.1.2 Different Types of Literature Review – Process of Literature Review	K2	2	1
	2.1.3 Different Formats of presenting Literature Review	K3	2	2
	2.1.4 Identification of Research Gap – Softwares Available for Literature Review and Citation - APA 6th Edition Formats	K3-K6	2	2-5
	2.2 Research Design			
	2.2.1 Meaning – Characteristics – Importance	K1-K2	1	1
	2.2.2 Types of Variables	K2	1	1
	2.2.3 Classification of Research Design	K1-K3	1	1-2
3	Sampling Techniques and Data Collection			
	3.1 Sampling Techniques			
	3.1.1 Probability and Non-Probability Sampling	K1-K2	2	1
	3.1.2 Sampling and non-sampling errors		1	
	3.1.3 Calculation of Sample Size	K1-K4	1	1-3
	3.2 Sources of Data			
	3.2.1 Primary Data – Interview, Questionnaire, Schedule, Observation, Case Study	K1-K4	2	1-3
	3.2.2 Secondary Data – Sources, Collection, Organisation and Evaluation		2	

UNIT	CONTENTS	CL	HRS	CO
4	Data Analysis and Interpretation			
	4.1 Introduction to Data Processing	K3	1	2
	4.2 Methods of Data Processing – Editing, Coding, Classification, Tabulation, Pictorial and Graphical Representation	K1-K4	4	1-3
	4.3 Data Analysis – Factors Influencing Data Analysis – Tools for Data Analysis	K4-K6	4	3-5
	4.4 Interpretation of the Outputs		3	
5	Report Writing			
	5.1 Research Reports – Meaning, Importance	K1-K2	4	1
	5.2 Layout of the Research Report	K2-K3	4	1-2
	5.3 Types of Reports	K3-K4	4	2-3

BOOK FOR STUDY

Kothari, C.R . *Research Methodology- Methods and Techniques*, New Delhi: New Age International Publishers, 2016

BOOKS FOR REFERENCE

Gupta, Santhosh , *Research Methodology and Statistical Techniques*, New Delhi:Deep and Deep Publications, 2018

Sancheti,D.C. and Kapoor V.K, *Statistics*, New Delhi:Sultan Chan and Sons , 2014

Singh, Y.K. Bajpai Rb , *Research Methodology*, New Delhi: Aph Publishing Corporation , 2010

Taylor, B. *Research Methodology*, New Delhi: Prentice Hall India Pvt Ltd , 2007.

JOURNALS

Journal of Indian Business research

Asia Pacific Journal of management research and innovation

WEB RESOURCES

[www.emerald group publishing.com](http://www.emeraldgroupublishing.com) www.spss-tutorials.com

www.spsstools.net

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
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C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
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E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/RM54												
	Course Title: RESEARCH METHODOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	1	2	1	1	1	2	2	2	2	2
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CO 4	3	3	2	1	2	2	2	1	3	3	2	1	3
CO 5	3	3	3	1	2	2	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024))

STRATEGIC MANAGEMENT DYNAMICS

CODE:23BH/MC/SD54

CREDITS : 4

L T P : 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE :

- To understand the implementation and evaluation of strategic options and actions
- To introduce the concept of business success through innovative thinking, applying best in class strategies and disruptive technologies in the management of change
- To analyse the business strategies and their impact on business performance
- To evaluate external factors and their impact on an organization's strategic decisions
- To encourage students to think critically and make informed, evidence-based decisions in complex and dynamic strategic contexts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the nature of strategy and strategic decisions	K1, K2
CO2	Demonstrate working of a strategic plan for the organisation	K3
CO3	Analyse the strengths and weakness of organisational process and suggest improvements	K4
CO4	Evaluate the importance of talent management for business success	K5
CO5	Develop and manage business projects understanding the constraints and implications	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENTS	CL	HRS	CO
1	Strategic Analysis- External			
	1.1 Nature of Strategy and Strategic decisions	K1-K2	2	1
	1.2 Johnson, Scholes and Whittington Model	K1-K4	3	1-3
	1.3 Environmental issues – Strategic drift, Key drivers for change, Porter’s diamond	K1-K5	2	1-4
	1.4 Competitive forces –Porter’s five forces model, Market Segmentation, Porter’s value chain, Value Networks	K1-K6	3	1-5
2	Strategic Analysis - Internal			
	2.1 Internal Resources, Capabilities and Competencies of an Organisation	K1-K4	4	1-3
	2.2 Sustaining competitive advantage	K1-K5	2	1-4
	2.3 Contribution of Organisational Knowledge to the Strategic Capability	K1-K5	4	1-4
3	Strategic choice			
	3.1 Suitability, Feasibility and Acceptability	K1-K4	2	1-3
	3.2 Price based strategies -7Ps		2	
	3.3 Boston Consulting Group, Public sector matrix Portfolio models, Ansoff Matrix	K1-K5	3	1-4
	3.4 Business Growth, Internal Development or Business Combinations - Strategic Alliances and Partnering	K1-K5	3	1-4
4	Strategic Action			
	4.1 Implementing Strategic Plan	K1-K4	2	1-3
	4.2 Aspects of Change Management Process; Challenges		2	
	4.3 Business Change Life Cycle	K1-K5	2	1-4
	4.4 Harmon’s Process- Strategy Matrix	K1-K6	2	1-5
	4.5 Improving Processes in Organisation		2	

UNIT	CONTENTS	CL	HRS	CO
5	Role of Technology in developing Strategic Alternatives	K1-K4	2	1-3
	5.1 Mobile and Cloud Technology – Benefits and Challenges			
	5.2 Big data and Data Analytics		2	
	5.3 Data analytics for Product Development, Marketing and Pricing	K1-K6	3	1-5
	5.4 Value chain for E- Business	K1-K5	3	1-4
	5.5 Information Technology Systems Security and Control	K1-K6	2	1-5

BOOKS FOR STUDY

ACCA BPP Strategic Business Leader (SBL)
Srinivasan R, Strategic Management, PHI, 2020

BOOKS FOR REFERENCE

ACCA Kaplan Strategic Business Leader (SBL)
Azhar Kazmi, Strategic Management & Business Policy, Tata Mc Graw Hill, 2008
Fred R David, Strategic Management Concepts & Cases, Pearson Education, 2013

JOURNALS

Journal of International Trade Law and Policy
International Journal of Trade and Global Market
International Trade Journal

WEB RESOURCES

<https://www.business.gov.in>
<https://www.cdslindia.com>
<https://www.geebeevee.org>
[https:// www.mca.gov.in](https://www.mca.gov.in)

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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Other Components: Total Marks: 50

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Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/SD54												
	Course Title: STRATEGIC MANAGEMENT DYNAMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	1	1	1	1	1	1	2
CO 2	3	3	3	2	2	2	1	1	1	1	1	1	2
CO 3	3	3	3	2	2	2	1	1	1	1	1	1	2
CO 4	3	2	3	2	2	2	1	1	1	1	1	1	2
CO 5	3	2	2	2	2	2	1	1	1	1	1	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNSHIP

CODE: 23BH/MC/IN52

CREDITS: 2

Internship is an integral part of the B.Com (Hons) Programme. To enable students to face the challenges of the business world, Internship Training is important. It plays a vital role in implementing theoretical knowledge and gaining practical exposure from the industry/organisation.

COURSE OUTCOMES FOR INTERNSHIP

- Apply theoretical knowledge gained in academic courses to real-world situations.
- Develop a better understanding of workplace dynamics, professional etiquette, and industry standards
- Build valuable connections for future career opportunities

OBJECTIVES OF INTERNSHIP

- To integrate theory and practise
- To gain working experience in a real working environment
- To engage in teams for execution of work assigned
- To widen their social and cultural experience
- To expose students to a wide spectrum of professional services in the field of commerce
- To gain insight on organization structure and its roles and responsibilities
- To help students identify and develop professional skills

GUIDELINES:

- The student will undergo practical training in a reputed organization for 30 hours
- The student is expected to work in the Finance department at least for 20 hours and the remaining 10 hours in other departments
- The student is required to maintain a log book duly counter signed by the supervisor of the organization
- Log book should contain the following details:
Hours worked, Nature of work performed, Signature of the supervisor
- A final consolidated report to be submitted to faculty advisor

Preparation of Final Report

The report should have a minimum of 25 pages detailing the work assigned and performed in the organization - Introduction of the Organisation/ Practical Aspects of Internship - Experience/Suggestions/Challenges/Conclusion

Pattern of Evaluation

Internship Report Evaluation:

Rubrics for Evaluation	Marks	Cognitive Level
Log book	20	K1
Project report	50	K2-K4
Viva	30	K5
	100	

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/IN52												
	Course Title: INTERNSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE COMMUNICATION

CODE: 23BH/SS/CC50

CREDITS: 0

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To bring out the importance of communication in an organisation
- To identify the components which make an effective communication
- To evolve strategies for projecting a consistent image of an organisation and its personnel

COURSE LEARNING OUTCOMES

On successful completion of the course, student will be able to

- Apply theories and concepts of corporate communication
- Comprehend the different models of communication
- Undertake media research
- Explain the process of effective communication

Unit 1

Introduction

(10 hours)

1.1 Conceptualising communication

1.2 Models of communication – Classical, Intermediary, Interactive and Transactional models

1.3 Theories and Ideologies of mass communication

Unit 2

Media Research

(6 hours)

2.1 Research Concept, Elements, Design and Methods

2.2 Sampling Techniques

2.3 Qualitative and Quantitative media research methods

Unit 3

(10 hours)

3.1 Internal Communication

3.1.1 Importance of Communication

3.1.2 Methods of Internal Communication

3.1.3 Elements and Process of Effective Communication

3.2 Customer Communication

3.2.1 Development of Marketing Strategies

3.2.2 Evaluation of External Stakeholders

3.2.3 Design and Delivering News Team Report

BOOKS FOR STUDY

Cornelissen Joep, *Corporate Communication A Guide to Theory and Practice*, 3rd Edition, Sage Publications

Argenti Paul A, *Strategic Corporate Communication*, Tata Mcgraw Hill

BOOKS FOR REFERENCE

Argenti Paul & Forman Janis, *The Power of Corporate Communication*, Tata Mcgraw Hill

Sabath, Ann Marie, *International Business Etiquette*, Career Press

JOURNALS

SAGE Journals

Research Gate

WEB RESOURCES

www.moocs-list.com

www.nptel.ac.in

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section A – 10 x 2 = 20 Marks (no choice)

Section B – 6 x 5 = 30 Marks (from a choice of eight)

Other Components: Total Marks: 50

Mode of Evaluation

Quiz/Group discussion/Assignments/Class Presentation/Objective Test

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

INVESTMENT ANALYSIS AND APPRAISAL

CODE: 23BH/MC/IA64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide a conceptual framework for analysis from an investor's perspective of maximizing return on investment
- To emphasise on the need for Savings and Investment
- To familiarise with the different Investment avenues
- To plan and manage personal savings and investments
- To acquaint with the process of evaluating potential investment decisions and assessing their financial and strategic consequences, both domestically and internationally

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the principles of investment analysis and appraisal including risk assessment and return analysis	K1, K2
CO2	Apply tools and techniques to analyse financial performance of potential investments	K3
CO3	Analyse and interpret fundamental and technical indicators and their impact on investment decisions	K4
CO4	Evaluate investment opportunities using various investment analysis techniques	K5
CO5	Develop critical-thinking and problem-solving skills necessary to make informed investment decisions	K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	HRS	CO
1	Investment Analysis			
	1.1 Fundamental Analysis - EIC Framework	K1-K4	2	1-3
	1.2 Economic Analysis: Leading Lagging and Coincident Macro-Economic Indicators, Expected Direction of Movement of Stock Prices with Macroeconomic Variables in the Indian Context	K1-K6	4	1-5
	1.3 Industry Analysis: Stages of Life Cycle	K1-K6	2	1-5
	1.4 Company Analysis to Financial Strategies – Investment, Financing and Dividends	K1-K4	2	1-3
2	Share Valuation			
	2.1 Dividend Discount Models - No Growth, Constant Growth, Two Stage Growth Model, Multiple Stages	K1-K6	4	1-5
	2.2 Relative Valuation Models Using P/E Ratio, Book Value to Market Value	K1-K5	4	1-4
	2.3 Technical Analysis: Meaning, Assumptions, Difference between Technical and Fundamental Analysis	K1-K4	8	1-3
	2.3.1 Price Indicators- Dow Theory, Advances and Declines, New Highs and Lows - Circuit Filters			
	2.3.2 Volume Indicators - Dow Theory, Small Investor Volumes			
	2.3.3 Other Indicators - Futures, Institutional Activity			
3	Portfolio Analysis			
	3.1 Portfolio Risk and Return	K1-K5	2	1-4
	3.2 Markowitz Portfolio Model - Risk and Return for 2 and 3 Asset Portfolios – Concept of Efficient Frontier and Optimum Portfolio	K1-K6	5	1-5
	3.3 Market Model: Concept of Beta Systematic and Unsystematic Risk	K1-K4	3	1-3
	3.4 Investor Risk and Return Preferences - Indifference curves and the efficient frontier	K1- K5	3	1-4
4	Investment appraisal Techniques			
	4.1 Discounted cash flow techniques – NPV with Inflation, taxation, capital rationing, Probability analysis and sensitivity analysis, Risk adjusted discount rates	K1-K6	5	1-5
	4.2 Monte Carlo simulation, IRR, MIRR, Macaulay duration		3	
	4.3 Adjusted Present Value		2	
	4.4 International NPV		2	
	4.5 Islamic Finance	K1-K4	2	1-3

5	Risk and Return			
	5.1 Concept of Returns - Application of Standard Deviation, Coefficient of Variation, Beta, Alpha	K1-K6	3	1-5
	5.2 Bonds - Present Value of a Bond, Yield to Maturity, Yield to Call, Yield to Put, Systematic Risk, Price Risk, Interest Rate Risk, Default Risk	K1-K5	3	1-4
	5.3 Yield Curve and Theories regarding Shape of Yield Curve	K1-K4	2	1-3
	5.4 Unsystematic Risk and Non-Risk Factors that Influence Yields	K1-K5	2	1-4
	5.5 Duration and Modified Duration, Immunization of a Bond Portfolio	K1-K4	2	1-3

BOOKS FOR STUDY

ACCA BPP Advanced Financial Management (AFM)

Sundaram and Das, *Derivatives Principles and Practice*, 2nd Edition, McGraw-Hill Irwin, 2015

Hull, John C., *Options, Futures, and Derivative Securities*, 9th Edition, Prentice-Hall, 2014

BOOKS FOR REFERENCE

ACCA Kaplan Advanced Financial Management (AFM)

Hull, John C., *Fundamentals of Futures and Options Markets*, Eighth Edition, Prentice Hall

Stulz, Rene M., *Risk Management & Derivatives*, Cengage Publications

Srivastava, Rajiv, *Derivatives & Risk Management*, 4th Edition, Oxford Publication House

JOURNALS

Journal of Derivatives

International Journal of Financial Markets and Derivatives

Journal of Derivatives Accounting

WEB RESOURCES

www.finra.com [www.nse-](http://www.nse-india.com)

india.com

www.efinancemanagement.com

www.accaglobal.com [www.capital-](http://www.capital-investment.co.uk)

investment.co.uk

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (2 theory and 1 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question (theory) 1 K4 question (problem) (internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (theory)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (3 theory and 2 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (4 theory and 2 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (theory) 2 K4 questions (problems) (internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (theory)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/IA64												
	Course Title: INVESTMENT ANALYSIS AND APPRAISAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	1	1	1	2	2	2	2	3
CO 2	3	3	3	2	2	2	1	1	3	2	3	2	3
CO 3	3	3	3	2	2	1	1	1	3	3	2	2	3
CO 4	3	3	3	2	3	1	1	1	3	2	2	2	3
CO 5	3	3	3	2	3	2	1	1	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Com. DEGREE: HONOURS

SYLLABUS
(Effective from the academic year 2023-2024)

ENTREPRENEURSHIP

CODE: 23BH/MC/EP64

CREDITS : 4

L T P : 4 0 0

TOTAL TEACHING HOURS : 52

OBJECTIVES OF THE COURSE

- To expose students to the entrepreneurial way of thinking
- To identify significant changes and trends which create business opportunities
- To explore the process converting idea to a successful entrepreneurial firm
- To create an effective business plan
- To sensitize on the issues and challenges of women entrepreneurs

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	Understand the basic concepts of Entrepreneurship	K1
CO2	Identify personal attributes that enable best use of entrepreneurial opportunities	K2
CO3	Develop an understanding of small-scale enterprises	K3, K4
CO4	Assess the various financial and non-financial assistance available to entrepreneurs	K5
CO5	Prepare a business plan to start an enterprise	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1	1	1
	1.1 Introduction to Entrepreneur, Entrepreneurship and Enterprise		2	
	1.2 Importance and Relevance of Entrepreneur	K3-K4	2	3
	1.3 Factors influencing Entrepreneurship Development	K2	2	2
	1.4 Pros and Cons of being an Entrepreneur	K3-K6	2	3-5
	1.5 Women Entrepreneurs – Problems and Promotion	K3	1	3
	1.6 Characteristics of Successful Entrepreneur			

UNIT	CONTENT	CL	HRS	CO
2	Small Scale Enterprises	K1-K3		
	2.1 Small Scale Industries, Tiny Industries, Ancillary Industries, Cottage Industries		2	1-3
	2.2 Product Range, Capital Investment, Ownership Patterns	K2-K3	2	2-3
	2.3 Importance and Role played by SSE in the Development of the Indian Economy	K4	2	3
	2.4 Problems Faced by SSEs – Steps Taken to Solve the Problems – Policies Governing SSEs	K3	2	3
	2.5 Sickness in SSEs – Meaning and Definition of a Sick Industry, Causes of Industrial Sickness, Preventive and Remedial Measures for Sick Industries	K3-K6	3	3-5
3	Starting a Small Business			
	3.1 Scanning the Environment for Opportunities	K2	3	2
	3.2 Evaluation of Alternatives and Selection based on Personal Competencies	K3	3	3
	3.3 Steps Involved in Starting a Business Venture – Location, Clearances and Permits Required, Formalities, Licensing and Registration Procedure, Assessment of the Market for the Proposed Project, Importance of Financial, Technical and Social Feasibility of the Project	K4	4	3
4	Business Plan			
	4.1 Meaning and Importance of Business Plan	K1-K2	2	1-2
	4.2 Preparation of Business Plan	K3	2	3
	4.3 Format of Business Plan	K4	2	3
	4.4 Various Aspects of Business Plan – Financial, Technical, Social, Marketing and Human Resource	K5-6	2	4-5
	4.5 Precautions to be taken while preparing a Business Plan	K6	2	5

UNIT	CONTENT	CL	HRS	CO
5	Institutional Assistance to Small Scale Enterprises	K1-K2	2	1-2
	5.1 Financial Assistance through SFCs, SIDBI, KSIDC, KSSIC, IFCI and Commercial Banks			
	5.2 Non-Financial Assistance from DIC, SISI, EDI, SIDO, AWAKE, TCO, TECKSOK, KVIC	K3-K4	2	3
	5.3 Microfinance and SHGs	K3	1	3
	5.4 Financial Incentives for SSIs and Tax Concessions	K5	2	4
	5.5 Assistance for Obtaining Raw Material, Machinery, Land and Building and Technical Assistance	K5-K6	2	4-5
	5.6 Industrial Estates – Roles and Types	K5	2	5

BOOKS FOR STUDY

S.S.Khanka, Entrepreneurial Development, S. Chand & Co, New Delhi, 2020

REFERENCES BOOKS

Charantimath, Entrepreneurship development & Small business enterprise, Pearson Edn., New Delhi, 2018

Jayashree Suresh, Entrepreneurial Development, Margham Publications, New Delhi, 2012

C.B. Gupta & N. P. Srinivasan, Entrepreneurial Development, Sultan Chand & Sons, 2020

Balu V., Entrepreneurial Development, Sri Venkateswara Publications, 2004

JOURNALS

Journal of development entrepreneurship

Journal of entrepreneurship education

Journal of Business venturing

WEBSITES

<http://www.entrepreneur.com>

<http://www.businessesforsale.com>

<http://www.sba.gov>

<http://joe.sagepub.com/content/19/2.toc>

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (internal choice)
D - Not exceeding 100 words	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B – Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C – Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (internal choice)
D - Not exceeding 100 words	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/EP64												
	Course Title: ENTREPRENEURSHIP												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	3	3	3	1	1	1	2
CO 2	1	3	2	1	3	1	2	3	3	1	1	1	1
CO 3	3	2	2	1	3	2	3	3	3	1	1	1	2
CO 4	3	1	1	1	1	1	1	1	3	1	2	1	1
CO 5	3	3	3	1	3	3	3	3	3	3	1	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

CORPORATE REPORTING

CODE : 23BH/MC/CR64

CREDITS : 4

L T P : 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To evaluate the appropriateness of the financial reporting framework and accounting regulation
- To gain knowledge on the corporate reporting practices in a globalised environment
- To acquaint with the fundamental ethical & professional principles related to corporate reporting
- To familiarise with reporting of financial performance
- To interpret of financial statements for different stakeholders

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	Comprehend the elements of financial statements	K1,K2
CO2	Apply ethical and professional principles with respect to reporting	K3
CO3	Analyse the financial reporting framework	K4
CO4	Measure the assets and liabilities of a concern to determine its financial performance	K5
CO5	Compile the impact of changes and potential changes in accounting regulation on financial reporting	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Financial Reporting Framework			
	1.1 Importance of the Conceptual Framework	K1-K2	3	1
	1.2 Objectives of Financial Reporting	K1-K2	4	1
	1.3 Roles of Prudence and Substance Over Form	K3	3	2
	1.4 Elements of Financial Statements	K1-K2	4	1
2	Preparation of Financial Statements			
	2.1 Preparation of Single Entity Financial Statements	K4-K5	2	3-4
	2.2 Introduction to Consolidation – Subsidiaries, Associates, Parent, Goodwill, NCI, Impairment, Fair Value	K4-K6	2	3-5
	2.3 Preparation of Workings for Consolidated Financial Statements – Group Structure, Fair Value of Assets, Goodwill, NCI, Share of Profits		3	
	2.4 Preparation of Consolidated Financial Statements for Subsidiaries – Full and Part Acquisition		2	
	2.5 Preparation of Consolidated Financial Statements for Associates		2	
3	Reporting of Financial Performance			
	3.1 Revenue – Recognition, Five Step Model, Measurement of Obligations	K4-K6	3	3-5
	3.2 Non-Current Assets – Recognition, Derecognition, Classification, Measurement, Impairment, Revaluation, Borrowing Costs		3	
	3.3 Investment Properties - Recognition, Derecognition, Classification, Measurement		3	
	3.4 Intangible Assets - Recognition, Derecognition, Classification, Measurement		3	
	3.5 Income Taxes - Recognition, Classification (Current and Deferred), Measurement		3	
4	Measurement and Recognition of Financial Assets and other Items			
	4.1 Financial Instruments - Recognition, Derecognition, Classification, Measurement, Derivatives, Hedge Accounting, Credit Risk, Credit Impairment	K4-K6	3	3-5
	4.2 Leases - Recognition, Derecognition, Classification, Measurement, Sale and Leaseback		3	
	4.3 Employee Benefits - Recognition, Derecognition, Classification, Measurement		3	

UNIT	CONTENT	CL	HRS	CO
	4.4 Provisions, Contingencies and Events after the Reporting Date		3	
	4.5 Share Based Payment, Fair Value Measurement		3	
5	Reporting Issues 5.1 Reporting Requirements of Small and Medium-sized Entities	K1-K2	3	1
	5.2 Reporting Issues – Government Assistance, Biological Assets, Interim Reports		4	
	5.3 Change in Accounting Policies and Estimates	K6	3	5

BOOKS FOR STUDY

ACCA BPP Strategic Business Reporting (SBR)

Asish K.Bhattacharya, Corporate Financial Reporting, Prentice Hall Learning

Tulsian P.C., Bharat Tulsian, Corporate Financial Reporting, S, Chand

BOOKS FOR REFERENCE

ACCA Kaplan Strategic Business Reporting (SBR)

Asish K. Bhattacharya, Corporate Financial Reporting, Prentice Hall Learning, 2012

David Young, Jacob Comen, Corporate Financial Reporting and Analysis, Wiley, 2012

Chatterjee B.D., Corporate Financial Reporting, Taxmann, 2019

Jain, S.P. Narang, K.L, *Advanced Accountancy Corporate Accounting (Part II)*, Kalyani Publishers, 2014

JOURNALS

Advances in Accounting

Journal of Finance

Journal of Corporate Accounting and Finance

WEB RESOURCES

www.integratedreporting.org

www.corporatereportingdialogue.com

www.financialexecutive.org

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (2 theory and 1 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question (theory) 1 K4 question (problem) (internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (3 theory and 2 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (4 theory and 2 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (theory) 2 K4 questions (problems) (internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/CR64												
	Course Title: CORPORATE REPORTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	2	2	2	2	3	3	3	2	2
CO 2	3	3	3	1	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	1	3	2	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	2	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	2	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

BUSINESS VALUATION AND RESTRUCTURING

CODE: 23BH/MC/BV65

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the business valuation techniques
- To explore the types of mergers and acquisitions
- To understand corporate reconstruction
- To sensitise on the valuation models to estimate the value of a business.
- To analyse financial statements and identify key financial indicators relevant to valuation and restructuring decisions

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	Understand the various concepts of business valuation	K1, K2
CO2	Apply financial modelling techniques to forecast the potential impact of a restructuring plan using its financial statements.	K3
CO3	Analyse case studies of successful and unsuccessful business restructurings identifying the key factors that led to each outcome and recommend strategies to mitigate risk and maximize value.	K4
CO4	Compare and contrast the advantages and disadvantages of different valuation methods and apply them to real world examples of business valuation scenarios.	K5
CO5	Synthesize financial and non-financial information to arrive at a fair value estimate for a business considering its competitive landscape and future growth potential.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Business Valuation			
	1.1 Introduction - Purpose and Importance of Valuation	K1-K2	1	1
	1.2 Business Valuation Techniques	K1-K5	3	1-4
	1.2.1 Income Approaches – DDM, FCFE, FCFF, Residual Income		2	
	1.2.2 Market Multiples – P/E, P/BV, P/S, P/CF, EV/EBITDA		2	
	1.2.3 Asset Based		2	
	1.3 Overvaluation		2	
	1.4 Models of Valuation – Book Value, Market based, Cash Flow	K1-K4	2	1-3
2	1.5 Procedure for Valuing High Growth Startups	K1-K6	1	1-5
	1.6 Methods of Valuation - Risk-Adjusted Cost of Capital, Adjusted Net Present Values and Changing Price Earnings Multipliers	K1-K5	3	1-4
	Mergers and Acquisitions			
	2.1 Rationale for Mergers and Acquisitions	K1-K2	2	1
	2.2 Types of Mergers and Acquisitions	K1-K3	2	1-2
	2.2.1 Mergers – Negotiations, Proxy	K1-K5		1-4
	2.2.2 Acquisition of Stock – Cash, Swap		2	
3	2.2.3 Acquisition of Assets		2	
	2.3 Takeover Bid Process, M & A Cycle and the Success of M&As		2	
	2.4 Sources of Finance for Acquisitions and Mergers		1	
	Valuation and the Use of Free Cash Flows			
	3.1 Asset Based, Income Based and Cash Flow Based Models to Value Equity	K1-K5	4	1-4
	3.2 Forecasting an Organisation's Free Cash Flows	K1-K5	4	1-4
	3.3 BSOP Model – Option Value, Underlying Assumptions, Structure, Application and Limitations	K1-K6	4	1-5

4	Corporate Reconstruction 4.1 Reconstruction Scheme – Need, Response	K1-K2	5	1
	4.2 Strategies for Unbundling Parts of a Quoted Company – Benefits and Risks	K1-K5	5	1-4
	4.3 Financial Issues relating to a Management Buy-out and Buy-in		5	
5	Sources of Finance 5.1 Different Sources of Finance, Characteristics of Different Types of Long Term Debt and Equity Finance, Method of Raising Long Term Finance	K1-K2	2	1
	5.2 Different Sources of Short- Term Finance		2	
	5.3 Internal Fund as a Source of Finance	K1-K3	1	1-2
	5.4 International Sources of Finance	K1-K4	1	1-3
	5.5 Other Sources of Finance- Sale and Lease Back, Convertible Debt, Venture Capital, Grants etc.		2	
	5.6 Lease Financing - Concept and Classification, Significance and Limitations, Financial Evaluation of Leasing Decision	K1-K6	3	1-5

BOOKS FOR STUDY

ACCA BPP Advanced Financial Management (AFM)

Anoop Jain, Corporate Restructuring, Valuation and Insolvency, A.J. Publications, 2023.

BOOKS FOR REFERENCE

Malcolm Howard, Accounting and Business Valuation Methods, CIMA Publishing, 2007

Rabi Narayan Kar Minakshi, Mergers, Acquisitions and Corporate Restructuring strategies and practises, Taxmann, 2023

Sangeet Kadia, Corporate Restructuring, Valuation and Insolvency, Pooja law Publishing House, 2017

WEB RESOURCES

www.rbsa.com

www.icsi.edu

www.valuationresearch.com

www.aira.org

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/BV65												
	Course Title: BUSINESS VALUATION AND RESTRUCTURING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	1	2	1	1	3	3	2	1	2
CO 2	3	3	3	1	1	2	1	1	3	2	1	1	2
CO 3	3	3	3	1	1	2	2	1	3	1	1	1	2
CO 4	3	3	3	1	1	1	1	1	3	2	1	1	3
CO 5	3	3	3	1	1	1	1	1	3	2	1	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

ACCOUNTING FOR CORPORATE RE-ORGANISATION

CODE: 23BH/MC/AC64

CREDITS: 4

L T P: 4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand the role and strength of corporate restructuring
- To facilitate the understanding of process and economic rationales of various corporate restructuring tools
- To acquire analytical skills in analyzing real-world cases in the need for corporate restructuring in a respective venture.
- To expose students to the strategic perspective & strategic approaches to M & A.
- To familiarise students with the accounting procedure with regard to liquidation of companies

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	Acquire conceptual understanding of Mergers, Acquisition and Liquidation	K1, K2
CO2	Understand the concept of Corporate Reconstruction and its methods	K3
CO3	Analyse the financial position of holding companies using consolidated statements	K4
CO4	Evaluate the issues involved in takeover process and identify areas of reform	K5
CO5	Build consolidated financial statements in accordance with IAS and IFRS	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Amalgamation 1.1 Amalgamation-Accounting Treatment as per AS-14 Calculation of Purchase Consideration	K1-K4	2	1-3
	1.2 Methods of Amalgamation Accounting -Pooling of Interests Method, Net Purchase Method	K2-K6	5	1-5
	1.3 Accounting for Amalgamation of Companies (Excluding Intercompany Transactions and Holdings)		5	
	1.4 Disclosure Relating to Amalgamation		3	
2	Internal and External Reconstruction 2.1 Meaning of Alteration of Share Capital and Internal Reconstruction	K1-K3	3	1-2
	2.2 Accounting for Internal Reconstruction (Excluding Preparation of Scheme for Internal Reconstruction)	K2-K6	5	1-5
	2.3 External Reconstruction – Method of Accounting		4	
3	Liquidation 3.1 Winding Up and its types – Consequences of Winding Up	K1-K3	2	1-2
	3.2 Accounting for Liquidation of Companies – Statement of affairs and Liquidator’s Final Statement of Accounts	K2-K5	4	1-4
4	Consolidation Accounts - Holding Companies 4.1 Introduction to Consolidation – Subsidiaries, Associates, Parent, Goodwill, NCI, Impairment, Fair Value	K2-K5	5	1-4
	4.2 Preparation of Workings for Consolidated Financial Statements – Group Structure, Fair Value of Assets, Goodwill, NCI, Share of Profits	K2-K6	4	1-5
5	Consolidation Accounts - Subsidiary Companies & Associates 5.1 Preparation of Consolidated Financial Statements for Subsidiaries – Full and Part Acquisition	K2-K6	5	1-5
	5.2 Preparation of Consolidated Financial Statements for Associates		5	

BOOKS FOR STUDY

ACCA BPP Strategic Business Reporting (SBR)

Reddy, T.S. Murthy, A., *Corporate Accounting Vol II Revised*, Margham Publications, Chennai, Reprint 2016

Maheshwari, S.N., Maheshwari, Suneel K., and Maheshwari, Sharad K., *Corporate Accounting*, Vikas Publishing House, 2018

BOOKS FOR REFERENCE

ACCA Kaplan Strategic Business Reporting (SBR)

Goyal , V.K. and Goyal, Ruchi, *Corporate Accounting*, Prentice Hall Learning, 2019

Shukla, S.M. and Gupta, K.L., *Corporate Accounting*, Sahitya Bhawan Publications, 2018

Gupta, R.L. and Radhaswamy, M., *Corporate Accounting Vol. I and II*, Sultan Chand & Sons, 2017

Jain, S.P. Narang, K.L, *Advanced Accountancy Corporate Accounting (Part II)*, Kalyani Publishers, 2017

JOURNALS

Advances in Accounting

Journal of Finance

Indian Journal of Commerce

Journal of Corporate Accounting and Finance

WEB RESOURCES

www.icai.org

www.emeraldgroupublishing.com

www.journals.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (1 theory and 2 problem)
B	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problems)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 question 1 K4 question (only problems, internal choice)
D	K5 (7)	$1 \times 7 = 7$	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (7)	$1 \times 7 = 7$	1 K6 question	1 K6 Question
	Total	50	9	10

Other Components: Total Marks: 50

Assignment, problem solving, quiz, open book test, group discussion, Video Making

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 theory and 3 problems)
B	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (1 theory and 5 problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions 2 K4 questions (only problems, internal choice)
D	K5 (15)	1 x 15 = 15	1 K5 question	2 K5 questions (problems)
E - compulsory case study	K6 (15)	1 x 15 = 15	1 K6 question	1 K6 question
	Total	100	15	17

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23BH/MC/AC64												
	Course Title: ACCOUNTING FOR CORPORATE RE-ORGANISATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	1	1	1	1	1	3	3	3	3	2
CO 2	3	2	1	1	1	1	1	1	3	3	3	3	2
CO 3	3	2	1	1	1	1	1	1	3	3	3	2	2
CO 4	3	3	1	1	2	1	2	1	3	3	3	3	3
CO 5	3	3	1	1	2	1	1	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Com. DEGREE: HONOURS

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT

CODE: 23BH/MC/PR68

CREDITS: 8

L T P: 0 0 4

COURSE OUTCOMES FOR PROJECT

- Deepen understanding of specific topics within the broader field of commerce through focused investigation and analysis.
- Develop research skills including the ability to gather and evaluate information from various sources, synthesise findings, and draw conclusions.
- Utilise appropriate research methods, including qualitative and/or quantitative approaches, to collect and analyse data effectively.
- Effectively communicate research findings, methodologies, and conclusions through both written and oral presentations.
- Make a meaningful contribution to research in the field of accounting and finance

GUIDELINES FOR PROJECT

Project should be the independent work of the student. Each student will choose a topic of her interest and the student will be assigned to a supervisor.

The student can use Quantitative or Qualitative/Descriptive or both methods.

➤ Page Limit:

The project report should be submitted in the prescribed format having a maximum of 100 pages, typed in font Times New Roman -size 12, with 1 ½ line spacing on A4 Size paper.

➤ Contents of the Project:

- Contents Page
- The Project Copy will include Certificate of the Supervisor, Declaration, and Acknowledgement
- Four or five chapters
- Presentation of the Project Report – format

Chapter 1 Introduction - to include background of the study, objectives, Methodology, limitation of the study and chapter scheme

Chapter 2 – Review of literature

Chapter 3 – Theoretical aspects of the study

Chapter 4 – Data analysis

Chapter 5 – Suggestions and conclusion

At the end of the project, Bibliography must be given in Alphabetical/ Chronological order and necessary appendices may be added.

➤ **Submission:**

Each student may prepare two soft bound copies of the project, one for her and one copy to be submitted to the Head of the Department duly signed by the supervisor, on the scheduled date.

➤ **Guidelines for Evaluation:**

There will be double valuation for the project by the supervisor and an external examiner. The student will appear for viva -voce before a panel comprising External Examiner, Supervisor and Head of the Department. The maximum marks for the project is 100 – 75 marks for the project report and 25 marks for the viva-voce.

Project Report Evaluation:

Rubrics for Evaluation	Marks	Cognitive Level
Formulating Problem Statement	15	K1
Conceptual Framework	10	K2
Analysis and Interpretation	25	K3, K4
Research Findings and Suggestions	15	K5
Research Conclusion	10	K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23BH/MC/PR68												
	Course Title: PROJECT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

**B.Voc. DEGREE
BANKING, FINANCIAL SERVICES AND INSURANCE
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

**SYLLABUS
(Effective from the academic year 2023 – 2024)**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI

DEPARTMENT OF COMMERCE – SHIFT II

**BACHELOR OF VOCATION – BANKING, FINANCIAL SERVICES AND
INSURANCE**

PROGRAMME DESCRIPTION

B.Voc- Banking, Financial Services and Insurance (BFSI) is a three year Bachelor's Degree Programme. It is a vocational training programme which provides a judicious mix of skills relating to a profession and a general appreciation of courses in Commerce and Business Administration. The programme ensures that the students have adequate knowledge and skills to enhance employability to face the challenges pertaining to the job at each exit point of the programme. NSQF is integrated within the B.Voc Degree Programme to meet industry requirements. The programme also enables the students to develop entrepreneurial skills to manage their own business. The methodology involves training through practical experience in the form of case studies, projects, presentations, industrial visits and interaction with experts from the industry. This programme is a blend of theoretical inputs, practical exercises and internship training.

The certification levels for this programme will lead to Diploma/Advanced Diploma/B. Voc. Degree in Banking Finance Services and Insurance (BFSI). Students may be awarded Diploma/Advance Diploma /Degree as indicated in the table below:

Award	Duration for class	Corresponding NSQF Level
Diploma	1 year	5
Advance Diploma	2 years	6
Degree	3 years	7

VISION OF THE DEPARTMENT

In consistent with the vision of the College, we are in pursuit of excellence in Commerce, by providing a vibrant and innovative Centre of Learning for the students to realize their potential and facilitate them to become business leaders and entrepreneurs with essential virtues of 'Truth and Charity' thereby upholding the motto of the College.

MISSION OF THE DEPARTMENT

Our mission is to excel as a transformational leader in Commerce, by equipping the students with sound theoretical knowledge and application skills to surge ahead in their career, adequately moulding them to meet the challenges of the emerging "Knowledge Society" besides inculcating humane values in them for the well-being of the society

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.Voc. in Banking, Financial Services and Insurance, the students will be able to

PSO 1	demonstrate comprehensive knowledge in different verticals of financial system
PSO 2	acquire a set of competencies required for career in varied organisations
PSO 3	apply appropriate analytical methods to analyse business issues
PSO 4	use business knowledge in the larger interest of the community
PSO 5	handle present complexities and future challenges in the business environment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Voc - Banking, Financial Services and Insurance 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	4	4	4	4									8	8
Part - II														
English	4	4	4	4									8	8
											Total		16	16
Part - III														
GE / Tamil	2	2	2	2									4	4
Value Education	2	2			2	2							4	4
Soft Skills (dept.)			3	3			3	3	3	3			9	9
Soft Skills (VE)											3	3	3	3
Environmental Studies					2	2							2	2
Extension Activity	1												1	0
											Total		23	22
Part - IV														
Major Core	6	6	6	6	6	6	6	6	6	6	6	6	36	36
	6	6	6	6	6	6	6	6	6	6	6	6	36	36
					4	4	4	4	6	6	6	6	20	20
					4	4	4	4	6	6	15	15	29	29
Allied Core	5	6	5	5									10	11
Elective					5	5	5	5					10	10
Mentoring						1		1		1			0	3
Remedial								1		2			0	3
											Total		141	148
	30	30	30	30	29	30	28	30	27	30	36	30+6*	180	186

* Project Work- Extends Outside the College Hours

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23VB/VM/FB16	Functions and Services of Banks and Non-Banking Financial Corporation	6	3	0	3	3	25	75	100
23VB/VM/PA16	Principles and Practices of Accounting	6	3	0	3	3	25	75	100
23VB/VA/OM15	Office Management and Practices	5	4	0	2	3	25	75	100
23VB/UE/CB12 /	Computer Basics	2	0	0	2	-	25	-	100
23TM/UE/BT12	Basic Tamil - I	2	2	0	0	-	25	-	100
23UV/ET/VP12	Values in Personal Life	2	2	0	0	-	25	-	100
23EA/GM/. 11	Extension Activities	1							
SEMESTER-II									
23VB/VM/LB26	Legal and Regulatory Framework of Banks and NBFC's	6	3	0	3	3	25	75	100
23VB/VM/RC26	Retail, Corporate, Small and Medium Enterprises Banking	6	3	0	3	3	25	75	100
23VB/VA/AS25	Accounting Software Practical	5	1	0	4	3	25	75	100
23VB/UE/BC22	Business Communication	2	2	0	0	-	25	-	100
23TM/UE/BT22	Basic Tamil - II	2	2	0	0	-	25	-	100
23VB/US/BP23	Business Etiquette and Professional Skills	3	0	0	3	-	25	-	100
SEMESTER-III									
23VB/VM/FS36	Financial Services	6	3	0	3	3	25	75	100
23VB/VM/BM36	Business Management	6	3	0	3	3	25	75	100
23VB/VM/IS34	Indian Securities Market	4	2	0	2	3	25	75	100
23VB/VM/EM34	Essentials of Marketing	4	2	0	2	3	25	75	100
23VB/VE/CR35 /	Customer Relationship Management	5	2	0	3	3	25	75	100
23VB/VE/BS35	Business Statistics	5	2	0	3	3	25	75	100
23VB/UC/ES32	Environmental Studies	2	2	0	0	-	25	-	100
23UV/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	25	-	100
SEMESTER-IV									
23VB/VM/CM46	Cost and Management Accounting	6	3	0	3	3	25	75	100
23VB/VM/FM46	Financial Markets	6	3	0	3	3	25	75	100
23VB/VM/FP44	Financial Planning	4	2	0	2	3	25	75	100
23VB/VM/AD44	Advertising	4	2	0	2	3	25	75	100
23VB/VE/BE45 /	Business Ethics	5	2	0	3	3	25	75	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23VB/VE/CB45	Computer Application in Business Practical	5	2	0	3	3	25	75	100
23VB/US/TM43	Time Management	3	1	0	2	-	25	-	100
SEMESTER-V									
23VB/VM/PI56	Principles of Insurance	6	3	0	3	3	25	75	100
23VB/VM/IR56	Insurance Regulations	6	3	0	3	3	25	75	100
23VB/VM/BL56	Business Law	6	3	0	3	3	25	75	100
23VB/VM/IT56	Income Tax	6	3	0	3	3	25	75	100
23VB/US/PS53	Presentation Skills	3	0	0	3	-	25	-	100
SEMESTER-VI									
23VB/VM/ED66	Entrepreneurial Development	6	3	0	3	3	25	75	100
23VB/VM/HI66	Health Insurance	6	3	0	3	3	25	75	100
23VB/VM/HR66	Human Resource Management	6	3	0	3	3	25	75	100
23VB/VM/PR615	Project (* Extends outside the college hours)	15	0	0	9+6*	-	20	80	100
23UV/US/HL63	Life Skills: An Approach to a Holistic Way of Life	3	3	0	0	-	25	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI

DEPARTMENT OF COMMERCE – SHIFT II

**BACHELOR OF VOCATION – BANKING, FINANCIAL SERVICES AND
INSURANCE**

PROGRAMME DESCRIPTION

B.Voc- Banking, Financial Services and Insurance (BFSI) is a three year Bachelor's Degree Programme. It is a vocational training programme which provides a judicious mix of skills relating to a profession and a general appreciation of courses in Commerce and Business Administration. The programme ensures that the students have adequate knowledge and skills to enhance employability to face the challenges pertaining to the job at each exit point of the programme. NSQF is integrated within the B.Voc Degree Programme to meet industry requirements. The programme also enables the students to develop entrepreneurial skills to manage their own business. The methodology involves training through practical experience in the form of case studies, projects, presentations, industrial visits and interaction with experts from the industry. This programme is a blend of theoretical inputs, practical exercises and internship training.

The certification levels for this programme will lead to Diploma/Advanced Diploma/B. Voc. Degree in Banking Finance Services and Insurance (BFSI). Students may be awarded Diploma/Advance Diploma /Degree as indicated in the table below:

Award	Duration for class	Corresponding NSQF Level
Diploma	1 year	5
Advance Diploma	2 years	6
Degree	3 years	7

VISION OF THE DEPARTMENT

In consistent with the vision of the College, we are in pursuit of excellence in Commerce, by providing a vibrant and innovative Centre of Learning for the students to realize their potential and facilitate them to become business leaders and entrepreneurs with essential virtues of 'Truth and Charity' thereby upholding the motto of the College.

MISSION OF THE DEPARTMENT

Our mission is to excel as a transformational leader in Commerce, by equipping the students with sound theoretical knowledge and application skills to surge ahead in their career, adequately moulding them to meet the challenges of the emerging "Knowledge Society" besides inculcating humane values in them for the well-being of the society

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.Voc. in Banking, Financial Services and Insurance, the students will be able to

PSO 1	demonstrate comprehensive knowledge in different verticals of financial system
PSO 2	acquire a set of competencies required for career in varied organisations
PSO 3	apply appropriate analytical methods to analyse business issues
PSO 4	use business knowledge in the larger interest of the community
PSO 5	handle present complexities and future challenges in the business environment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Voc - Banking, Financial Services and Insurance 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	4	4	4	4									8	8
Part - II														
English	4	4	4	4									8	8
											Total		16	16
Part - III														
GE / Tamil	2	2	2	2									4	4
Value Education	2	2			2	2							4	4
Soft Skills (dept.)			3	3			3	3	3	3			9	9
Soft Skills (VE)											3	3	3	3
Environmental Studies					2	2							2	2
Extension Activity	1												1	0
											Total		23	22
Part - IV														
Major Core	6	6	6	6	6	6	6	6	6	6	6	6	36	36
	6	6	6	6	6	6	6	6	6	6	6	6	36	36
					4	4	4	4	6	6	6	6	20	20
					4	4	4	4	6	6	15	15	29	29
Allied Core	5	6	5	5									10	11
Elective					5	5	5	5					10	10
Mentoring						1		1		1			0	3
Remedial								1		2			0	3
											Total		141	148
	30	30	30	30	29	30	28	30	27	30	36	30+6*	180	186

* Project Work- Extends Outside the College Hours

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086
B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE
COURSES OF STUDY
(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23VB/VM/FB16	Functions and Services of Banks and Non-Banking Financial Corporation	6	3	0	3	3	25	75	100
23VB/VM/PA16	Principles and Practices of Accounting	6	3	0	3	3	25	75	100
23VB/VA/OM15	Office Management and Practices	5	4	0	2	3	25	75	100
23VB/UE/CB12 /	Computer Basics	2	0	0	2	-	25	-	100
23TM/UE/BT12	Basic Tamil - I	2	2	0	0	-	25	-	100
23UV/ET/VP12	Values in Personal Life	2	2	0	0	-	25	-	100
23EA/GM/. 11	Extension Activities	1							
SEMESTER-II									
23VB/VM/LB26	Legal and Regulatory Framework of Banks and NBFC's	6	3	0	3	3	25	75	100
23VB/VM/RC26	Retail, Corporate, Small and Medium Enterprises Banking	6	3	0	3	3	25	75	100
23VB/VA/AS25	Accounting Software Practical	5	1	0	4	3	25	75	100
23VB/UE/BC22	Business Communication	2	2	0	0	-	25	-	100
23TM/UE/BT22	Basic Tamil - II	2	2	0	0	-	25	-	100
23VB/US/BP23	Business Etiquette and Professional Skills	3	0	0	3	-	25	-	100
SEMESTER-III									
23VB/VM/FS36	Financial Services	6	3	0	3	3	25	75	100
23VB/VM/BM36	Business Management	6	3	0	3	3	25	75	100
23VB/VM/IS34	Indian Securities Market	4	2	0	2	3	25	75	100
23VB/VM/EM34	Essentials of Marketing	4	2	0	2	3	25	75	100
23VB/VE/CR35 /	Customer Relationship Management	5	2	0	3	3	25	75	100
23VB/VE/BS35	Business Statistics	5	2	0	3	3	25	75	100
23VB/UC/ES32	Environmental Studies	2	2	0	0	-	25	-	100
23UV/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	25	-	100
SEMESTER-IV									
23VB/VM/CM46	Cost and Management Accounting	6	3	0	3	3	25	75	100
23VB/VM/FM46	Financial Markets	6	3	0	3	3	25	75	100
23VB/VM/FP44	Financial Planning	4	2	0	2	3	25	75	100
23VB/VM/AD44	Advertising	4	2	0	2	3	25	75	100
23VB/VE/BE45 /	Business Ethics	5	2	0	3	3	25	75	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086
B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE
COURSES OF STUDY
(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
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23VB/US/TM43	Time Management	3	1	0	2	-	25	-	100
SEMESTER-V									
23VB/VM/PI56	Principles of Insurance	6	3	0	3	3	25	75	100
23VB/VM/IR56	Insurance Regulations	6	3	0	3	3	25	75	100
23VB/VM/BL56	Business Law	6	3	0	3	3	25	75	100
23VB/VM/IT56	Income Tax	6	3	0	3	3	25	75	100
23VB/US/PS53	Presentation Skills	3	0	0	3	-	25	-	100
SEMESTER-VI									
23VB/VM/ED66	Entrepreneurial Development	6	3	0	3	3	25	75	100
23VB/VM/HI66	Health Insurance	6	3	0	3	3	25	75	100
23VB/VM/HR66	Human Resource Management	6	3	0	3	3	25	75	100
23VB/VM/PR615	Project (* Extends outside the college hours)	15	0	0	9+6*	-	20	80	100
23UV/US/HL63	Life Skills: An Approach to a Holistic Way of Life	3	3	0	0	-	25	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

FUNCTIONS AND SERVICES OF BANKS AND NON-BANKING FINANCIAL CORPORATION

CODE: 23VB/VM/FB16

CREDITS: 6

LTP: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To expose students to operational activities of banking and non-banking sector
- To enable students to comprehend the growth of banks and NBFC's
- To enlighten students on CIBIL and its impact on the loan approval process
- To acquaint students with the conceptual knowledge of financial institutions
- To familiarise students with the different banking services and types of customers

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the basic terminologies and concepts of banking and Non-Banking Financial Corporations	K1
CO2	comprehend the functions and services of banking and non-banking financial corporations	K2
CO3	apply the knowledge of banking functions and services to choose different products and services	K3
CO4	compare the functions and roles of banks and non-banking financial corporations in the financial system	K4
CO5	assess and evaluate the growth in the banking system	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Banking and Non-Banking Financial Corporations:			
	1.1 Meaning, Definition and Evolution of Banking	K1-K2	1	1-2
	1.2 Growth in Banking Services and Analysis of Current Banking Structure	K1-K5	2	1-5
	1.3 Types of Banks – Central Bank, Commercial Bank, Industrial Bank, Development Bank, Co-Operative Bank, Rural Banks	K1-K3	2	1-3
	1.4 Non-Banking Financial Institution – Meaning, Origin, Types and Scope	K1-K5	4	1-5
	1.5 Housing Finance Companies			

UNIT	CONTENT	CL	HRS	CO
2	Functions of Banks			
	2.1 Functions of Banks and NBFC's	K1-K2	3	1-2
	2.2 Types of Bank Deposits - Savings, Current, Fixed Deposits and Recurring Deposits	K1-K3	3	1-3
	2.3 Types of Lending – Cash Credit, Overdraft, Bills discounting and Term loans, Modes of Creating Charge – Lien, Pledge, Hypothecation and Mortgage Types of Loans and Advances – Personal Loans – Housing Loans – Consumer Loans – Priority Sector Advances Loans for Weaker Sections, Small Scale Industries, Agriculture, Self-employed and Professionals – Gold Loan, Educational Loan	K1-K5	14	1-5
	2.4 Duties and Responsibilities of Bank in Disbursing Loan, KYC Requirements			
	2.5 Role of Recovery Agents – Mode of Recovery			
3	Services of Non-Banking Financial Corporations			
	3.1 Functions of NBFC's	K1-K2	5	1-2
	3.2 Types of Products offered by NBFC's	K1-K5	5	1-5
	3.3 Growth of NBFC's in India	K1-K3	5	1-3
	3.4 Difference between the Financial Products of Banks and Non-Banking Financial Companies	K1-K5	5	1-5
4	Banking Services:			
	4.1 Meaning, Definition, Relationship between Banker and Customer	K1-K5	20	1-5
	4.2 Special Types of Customers			
	4.3 Bank Accounts - Opening, Closing			
	4.4 Other Services of Banks			
5	Loan Approval Process:			
	5.1 An Overview of CIBIL and Credit Score	K1-K2	2	1-2
	5.2 Importance of CIBIL Score in Loan Approval Process	K1-K5	7	1-5
	5.3 CIBIL Report			
	5.4 Loan Rejection and Dispute.			

BOOKS FOR STUDY

E. Gordon and K. Natarajan, *Banking Theory, Law and Practice*, Mumbai: Himalaya Publishing House, 2022

Varshney P.N. Sundharam K.P.M., *Banking Theory Law & Practice*, New Delhi: Sultan Chand & Sons, 2019

Gurusamy. S, *Financial Services*, Noida: Tata McGraw Hill Education Pvt. Ltd, 2009

BOOKS FOR REFERENCE

T R Jain, Mukesh Trehan, Ranju Trehan, *Indian Financial System*, New Delhi V.K. Publications, 2022

Khan M.Y., *Indian Financial System*, Noida: Mc Graw Hill Education Pvt. Ltd., 2019

Machiraju, H., *Indian Financial System*, New Delhi: Vikas Publication, 2019

P.N.Varsheny & Mittal, D., *Indian Financial System*, New Delhi: Sultan Chand & Sons, 2015

Jaiswal, B., *Banking Operations Management*, New Delhi: Vikas Publication, 2015
 Akhan, J. A., *Non-banking Financial Companies (NBFCs) in India: Functioning & Reforms*, Chennai: New Century Publications, 2013
 Santhanam, B., *Banking and Financial System*, Chennai: Margham Publications, 2012

JOURNALS

Asian Journal of Research in Banking and Finance
 Journal of Banking, Information Technology and
 Management
 Journal of Bank Management
 Journal of Internet Banking and Commerce

WEB RESOURCES

www.testbook.com/banking-awareness/functions-of-banks
www.accountlearning.com/primary-functions-of-commercial-banks-in-lending-money/
www.toppr.com
www.rbi.org.in

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 Minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice-50 words)
B	K2	10	2X5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question-500 words)
D	K5	10	1×14 = 14 (out of 2 questions-1000 words)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice-50 words)
B	K2	20	4 × 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 × 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/FB16												
I	Course Title: FUNCTIONS AND SERVICES OF BANKING AND NON-BANKING FINANCIAL CORPORATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	-	-	3	2	2	3	-
CO 2	3	3	3	3	3	3	1	2	3	2	2	3	1
CO 3	3	3	3	2	3	3	2	2	3	2	2	3	3
CO 4	3	3	3	2	3	3	1	2	3	2	2	3	3
CO 5	3	3	3	1	3	3	1	-	3	2	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 -2024)

PRINCIPLES AND PRACTICES OF ACCOUNTING

CODE: 23VB/VM/PA16

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To expose students to the general principles in the preparation of financial statements
- To familiarise students with the computation of cost and profit
- To provide an understanding of interpreting the financial statements
- To acquaint students with the techniques in decision making
- To educate students on the relevance of budgeting and its preparation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the tools and techniques used in business for decision making and control	K1
CO2	explain the basic principles and concepts of accounting	K2
CO3	apply appropriate methods of accounting to assess the financial performance of a business entity	K3
CO4	analyse the techniques used in performance measurement, decision making and control	K4
CO5	evaluate the application of accounting techniques adopted in decision making and control	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Preparation of Financial Statements of Sole Proprietor	K1-K3	3	1-3
	1.1 Closing Entries and Adjustment Entries			
	1.2 Adjustment Entries - Loss of Stock by Accident or Fire, Manager's Commission on Net Profit Before and After Commission, Works Manager and General Manager Commission, Writing off of Deferred Revenue Expenditure, Goods sent on Sale or Return Basis, Asset Disposal and Exchange, Distribution of Samples, Advance Income Tax	K1-K5	12	1-5

UNIT	CONTENT	CL	HRS	CO
2	Financial Statement Analysis			
	2.1 Analysis and Interpretation-Need and Importance	K1,K2	3	1-2
	2.2 Methods of Financial Analysis and Interpretation	K1-K5	9	1-5
	2.2.1 Comparative Statements			
	2.2.2 Common-Size Statements			
	2.2.3 Trend Analysis			
	2.3 Ratio Analysis			
	2.3.1 Significance and Limitations of Ratio Analysis	K1,K2	1	1-2
	2.3.2 Computation and Interpretation of Ratios – Turn Over, Liquidity, Profitability, Solvency and Leverage Ratio	K1-K5	7	1-5
3	Cost Accounting			
	3.1 Basic Concepts in Cost Accounting	K1,K2	2	1-2
	3.2 Ascertainment and Classification of Cost	K1-K4	4	1-4
	3.3 Preparation of Cost Sheet	K1-K5	6	1-5
4	Marginal Costing			
	4.1 Marginal Costing- Meaning, Advantages, Limitations	K1-K2	2	1-2
	4.2 Breakeven Analysis - Cost-Volume Profit Analysis	K1-K5	14	1-5
	4.3 Applications of Marginal Costing – Key factor, Product Mix and Sales Mix			
5	Budgeting			
	5.1 Budgeting – Meaning, Need and Importance	K1-K2	3	1-2
	5.2 Types of Budget - Production Budget, Purchase Budget, Sales Budget, Cash Budget, Flexible Budgets	K1-K5	12	1-5

BOOKS FOR STUDY

T.S. Reddy and Y.Hari Prasad Reddy, *Cost and Management Accounting*, Chennai: Margham Publication, 2018

K.L.Narang, and S.P.Jain., *Financial Accounting*, New Delhi: Kalyani Publishers, 2018

Maheswari, S.N., *Cost and Management Accounting*, New Delhi: Sultan Chand & Sons, 2018

K.L.Narang, and S.P.Jain., *Cost and Management Accounting*, New Delhi: Kalyani Publishers, 2014

BOOKS FOR REFERENCE

Ravi.M. Kishore, *Cost and Management Accounting*, Chennai: TaxMann Publishers, Reprint 2021

Tulsian, *Introduction to Cost Accounting*, New Delhi: S.Chand Publishing, 2020

Maheswari, S., and Sunnel, M.K., *An Introduction to Accountancy*, New Delhi: Vikas Publishing, 2018

M Y Khan & P K Jain, *Management Accounting*, Noida: Tata McGraw Hill, 2017

Grewal, T., and Gupta, S., *Introduction to Accountancy*, New Delhi: S.Chand Publishing, 2016

MN Arora, *Management Accounting*, Mumbai: Himalaya Publishing House, 2016

JOURNALS

Journal of Management Accounting Research.
Management Accountant Journal
Journal of Cost Accounting Research.

WEB RESOURCES

www.icaai.orgwww.emeraldinsight.com
www.accaglobal.com
www.icsi.org
www.journals.elsevier.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice - 1 theory and 2 Problem)
B	K2	10	2X5 =10 (out of 3 Questions -1 Theory and 2 problems)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question- Only Problems)
D	K5	10	1×14 = 14 (out of 2 questions - Only Problems)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice -3 problems and 2 theory)
B	K2	20	4 × 5 = 20 (out of 6 questions - 5 Problems and 1 theory)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions – Only Problems)
D	K5	30	2 × 15 = 30 (out of 3 questions - only Problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/PA16												
I	Course Title: PRINCIPLES AND PRACTICES OF ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	-	1	3	3	3	3	3
CO 2	3	3	3	3	3	-	-	1	3	3	-	-	3
CO 3	3	3	3	3	3	2	2	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	-	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 -2024)

OFFICE MANAGEMENT AND PRACTICES

CODE:23VB/VA/OM15

CREDITS:5

L T P:4 0 2

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To familiarise the students with the principle and practice of office management
- To comprehend the importance of record management by using appropriate filing and indexing methods
- To expose students to office machines and safety measures
- To enable students to understand the recent developments in office management
- To introduce students to the office automation tools

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe office management principles, policies and procedures	K1
CO2	relate the functions of office with other departments in an organization	K2
CO3	compare the traditional and the modern functions of office	K3
CO4	organise data to prepare and consolidate necessary reports	K4
CO5	evaluate the effectiveness of office management strategies and practices	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Office and Office Management			
	1.1 Meaning of Office, Function of Office, Primary and Administrative Functions, Importance of Office	K1-K2	5	1-2
	1.2 Relation of Office with Other Departments of Business Organisation – Concept of Paperless Office - Virtual Office, Back and Front Office, Open and Private Office	K1-K5	5	1-5
	1.3 Definition and Elements of Office Management, Duties of an Office Manager	K1-K4	5	1-4

UNIT	CONTENT	CL	HRS	CO
2	Filing and Indexing	K1-K3	11	1-3
	2.1 Meaning and Importance of Filing, Essential of Good Filing System			
	2.2 Centralized and Decentralized Filing System			
	2.3 Meaning, need of Indexing Types of Indexing used in the Business Organisation	K1-K5	4	1-5
	2.4 Third party Services			
3	Office forms	K1-K4	5	1-4
	3.1 Types of forms used in Business Organisation – Controls and Objectives			
	3.2 Specimens of Forms used in office – Recent Trends	K1-K5	10	1-5
	3.3 Methods of Capturing Information			
4	Office Record Management and Office Manuals	K1-K5	15	1-5
	4.1 Meaning, importance of Record keeping Management, Principles of Record Management and Types of Records kept in a Business Organisation.			
	4.2 Office Manuals – Meaning, Need, Types of Office Manuals and Steps in Preparing Office Manuals			
	4.3 Preparation of Organogram charts			
	4.4 Emerging Trends in Office Management			
5	Office Machines and Safety	K1,K2	5	1-2
	5.1 Importance, objectives of office machines.			
	5.2 Office Safety and Security – Meaning, Importance of Office Safety	K1-K5	13	1-5
	5.3 Safety hazards and steps to improve Office Safety, Security Hazards and Steps to improve Office Security.			

BOOKS FOR STUDY

Chopra R.K., *Office Management*, Mumbai: Himalaya Publishing 2022

P.K.Ghosh, *Office Management*, New Delhi: Sultan Chand & Sons, 2015

BOOKS FOR REFERENCE

I.M.Sahai, *Office Management*, Agra: Sahitya Bhawan Publications, 2019

Gupta C B., *Office Organisation and Management*, New Delhi: Sultan Chand & Sons, 2017

Pillai R, S.N.Bagawathi, *Office Management*, New Delhi: Sultan Chandand Sons, 2010

Arora S.P., *Office Organization and Management*, New Delh: Vikas Publishing House Pvt. Ltd., 2009

JOURNALS

Academy of Management Journal

Journal of Business Education

Journal of Management and Governance - Springer

Journal of Work-Applied Management

WEB RESOURCES

www.resources.owllabs.com/blog/office-management

www.greetly.com

www.officespacesoftware.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 Minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	3X2 = 6 (No Choice-50 words)
B	K2	10	2X5 =10 (out of 3 Questions-150 words)
C	K3, K4	20	2X10 =20 (internal choice for one K3 questions and one K4 question-500 words)
D	K5	10	1×14 = 14 (out of 2 questions-1000 words)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5X 2 = 10 (No Choice-50 words)
B	K2	20	4 × 5 = 20 (out of 6 questions-150 words)
C	K3,K4	40	4 × 10 = 40 (internal choice between two K3 questions and two K4 questions-500 words)
D	K5	30	2 × 15 = 30 (out of 3 questions-1000 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/OM15												
I	Course Title: OFFICE MANAGEMENT AND PRACTICES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	-	-	3	2	-	2	-
CO 2	3	3	3	3	3	3	1	2	3	2	1	2	-
CO 3	3	3	3	3	3	3	2	2	3	2	3	-	3
CO 4	3	3	3	3	3	3	2	2	3	2	3	1	1
CO 5	3	3	3	3	3	3	2	2	3	2	3	-	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 -2024)

COMPUTER BASICS

CODE: 23VB/UE/CB12

CREDITS: 2

L T P: 0 0 2

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To expose students to the computer basics
- To equip students to apply excel functions
- To enlighten students with basic business applications using computers
- To provide insights on formatting word document and excel spreadsheet
- To acquaint students with simple design and development tasks.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe computer hardware, software and the use of internet	K1
CO2	identify the errors or inconsistencies in word and Excel spread sheet	K2
CO3	apply formatting options in word and excel spread sheet	K3
CO4	analyse formulas and functions used in word document and Excel spread sheet	K4
CO5	critically evaluate the ethical considerations related to computer usage	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Applications of computers, Hardware, Firmware, Liveware, Software, System Software: Operating system, Translators, interpreter, compiler, Overview of operating system, function of operating system, Application software: General Purpose Packaged Software and tailor made software	K1-K2	9	1-2
	1.2 Meaning of Internet, Growth of internet, Owner of Internet, Anatomy of Internet, Net Etiquette , World Wide Web, Internet Protocols, Usage of Internet to society, Search Engines			
2	Business Communication using Word Processing 2.1 Working with Word Document, Opening an Existing Document/Creating a New Document, Saving the Document	K1-K5	9	1-5
	2.2 Selecting Text, Editing Text, Finding and Replacing Text			
	2.3 Formatting Text, Bullets and Numbering, Tabs, Paragraph Formatting, Page Setup			
3	Spreadsheet and its Business Applications 3.1 Spreadsheet Concepts	K1-K2	1	1-2
	3.2 Creating a Work Book, Saving a Work Book, Editing a Work Book, Inserting, Deleting Work Sheets, Entering Data in a Cell, Formula Copying, Moving Data from Selected Cells	K1-K5	2	1-5
	3.3 Inserting Charts- LINE, PIE, BA			
	3.4 Excel Functions 3.4.1 Mathematical- ROUND ALL, SUM, SUMIF, COUNT, COUNTIF	K1-K3 K1-K4	1	1-3 1-4
	3.4.2 Statistical – AVERAGE, MAX, MIN, STDEV, FREQUENCY, INTERCEPT, SLOPE	K1-K5	4	1-5
	3.4.3 Financial - PMT, PPMT, IPMT, Logical - IF, AND, OR.			

BOOK FOR STUDY

Ahmed, R., *Introduction to Information Technology*, Chennai: Margham Publications, 2018

BOOKS FOR REFERENCE

Vikas B. Agarwal Jothi P. Mirani., *Computer Fundamentals*, New Delhi: Nirali Prakashan, 2019

Pradeep K.Sinha, *Computer Fundamentals*, New Delhi: BPB Publications, 2018

V.Rajaraman, *Introduction to Information Technology*, New Delhi: PHI, 2013

Goel, A., *Computer Fundamentals*, New Delhi: Pearson, 2010

Vastava, S. S., *MS Office*. New Delhi: Lakshmi Publications Pvt.Ltd., 2008

JOURNALS

The Computer Journal

Journal of Computers

WEB RESOURCES

www.geeksforgeeks.org/basics-of-computer-and-its-operations/

www.support.microsoft.com

PATTERN OF ASSESSMENT (PRACTICALS)

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Question Number	Mark Distribution
A (All Questions to be answered)	K1	1 - 5	5 (5 x 1 = 5)
B (All Questions to be answered)	K2	6 - 10	5 (5 x 1 = 5)
C (Internal choice)	K3 / K3	11 or 12	5 (1 x 5 = 5)
	K4 / K4	13 or 14	5 (1 x 5 = 5)
D (Internal choice)	K5 / K5	15 or 16	5 (1 x 5 = 5)
Total			25

Other Components:

Total Marks: 25

Two components will be assessed for cognitive levels between K1 – K5:

Seminars / Quiz / Group discussion / Assignments / Class Presentation

No End Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/UE/CB12												
I	Course Title: COMPUTER BASICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	3	3	3	3	-	-	2	2	3	2	1
CO 2	3	3	3	3	3	3	1	-	2	2	3	2	1
CO 3	3	3	3	3	3	3	-	-	2	2	3	2	3
CO 4	3	3	3	3	3	3	-	-	2	2	3	3	2
CO 5	3	3	3	3	3	3	3	1	2	2	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

LEGAL AND REGULATORY FRAMEWORK OF BANKS AND NBFC'S

CODE: 23VB/VM/LB26

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To acquaint students with statutory provisions relating to Banks and NBFC.
- To provide insights on issues relating to money laundering
- To equip students with concept of cash and currency management.
- To familiarise students with operational functions of banks and NBFC
- To enable students to understand the importance of regulatory Requirements for banks and NBFC in India

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list the fundamental laws and regulations governing the banking and Non-Banking Financial Corporations	K1
CO2	explain the concept and importance of Money laundering in financial institutions	K2
CO3	apply relevant legal principles and solve compliance challenges faced by financial institutions	K3
CO4	analyse the impact of regulatory changes in the operations of banks and non-banking financial corporations	K4
CO5	compare and contrast the regulatory aspects of banks and non-banking financial companies	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K2	2	1-2
	1.1 Definition, Objectives of RBI, Brief History of RBI			
	1.2 Management and Administration of RBI	K1-K5	2	1-5
	1.3 Functions of RBI, Printing of Securities and Minting in India, Issue of Plastic Notes		3	
	1.4 RBI guidelines for New Bank Licenses, Revised Priority Sectors Lending Norms		2	
2	Banking Regulation Act 1949	K1-K2	5	1-2
	2.1 Definition of Banking, Functions of Banks	K1-K3	5	1-3
	2.2 Opening of new banks and branch licensing	K1-K5	8	1-5
	2.3 Administration and Management of Banks – Constitution of Board of Directors and their rights, Banks Shareholders and their Rights			
	2.4 Cash/Currency Management		2	
3	Negotiable Instruments Act 1881	K1-K5	5	1-5
	3.1 Definitions and Features of Negotiable Instruments		5	
	3.2 Types – Cheques, Promissory Note, Bills of Exchange		5	
	3.3 Crossing, Endorsement		5	
	3.4 Statutory Protection, Dishonour of Cheques, Penalties in Case of Dishonour of Cheques		5	
4	Non-Banking Financial Corporations	K1-K5	10	1-5
	4.1 Regulatory Requirements of NBFC in India		5	
	4.2 RBI Guidelines for NBFC		5	
	4.3 Corporate Governance Norms for NBFC			
5	Money Laundering Act, 2002	K1-K4	2	1-4
	5.1 Definition and Impact of Money Laundering Act	K1-K5	3	1-5
	5.2 Anti-Money Laundering – Concept and Reasons, Measures to Deter Money Laundering		2	
	5.3 Laundering Legislations and RBI Guidelines		2	
	5.4 Case Studies on Money Laundering			

BOOKS FOR STUDY

Sundaram K.P.M. and Varshney P. N., *Banking Theory Law and Practice*, New Delhi: Sultan Chand and Sons, 2021

Indian Institute of Banking & Finance, *Legal & Regulatory Aspects of Banking*, New Delhi: Macmillan Education, 2021

BOOKS FOR REFERENCE

Gordon, E., *Banking Theory Law & Practice*, New Delhi: Himalaya Publishing House, 2023
K P Kandhaswamy, S. N., *Banking Law & Practice*. New Delhi: S Chand, 2017
Khan, M. Y., *Indian Financial System Theory and Practice*, New Delhi: Vikas Publishing House, 2019
Mandilwar, A. K., *Legal and Regulatory Aspects of Banking*, New Delhi: Himalaya Publishing House, 2018
P.N., Varshney & Mittal, D., *Indian Financial System*, New Delhi: Sultan Chand & Sons, 2015
Paul, & Suresh, *Management of Banking and Financial Services*, New Delhi: Pearson Education, 2014
Santhanam.B., *Banking Theory, Law & Practice*, Chennai: Margham Publications, 2019

WEB RESOURCES

rbi.org.in
dor.gov.in/prevention-of-money-laundering-list

JOURNALS

Indian Journal of Finance and Banking
Indian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/LB26												
II	Course Title: LEGAL AND REGULATORY FRAMEWORKS OF BANKS AND NBFC'S												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	1	-	1	3	3	1	1	3
CO 2	3	3	3	3	3	-	3	2	3	3	1	3	3
CO 3	3	3	3	1	3	2	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

RETAIL, CORPORATE, SMALL AND MEDIUM ENTERPRISES BANKING

CODE: 23VB/VM/RC26

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To equip students to the financing concepts of small and medium scale enterprises
- To introduce the concept of retail banking and its products and services
- To provide insights on importance of retail and corporate banks in Indian economy
- To acquaint students with different dimensions of retail and corporate banks
- To familiarize with the recent developments in retail and corporate banking

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic concepts and importance of retail banks and corporate banks	K1
CO2	explain the sources of finance for small and medium scale enterprise and corporate banks	K2
CO3	identify the different retail banking products and how they differ from other traditional banking products	K3
CO4	analyse the issues and Challenges faced by Retail and Corporate Banking Institutions	K4
CO5	assess the efficiency of services provided by retail and corporate banking	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Retail banking			
	1.1 Retail Banking – Origin, Meaning, Nature and Importance	K1-K2	2	1-2
	1.2 Dimensions of Retail Banking	K1-K3	2	1-3
	1.3 Functions and Role of Retail Banking	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
2	Retail Banking Products and Operations	K1-K5	6	1-5
	2.1 Types of Products		6	
	2.2 Retail Banking Operations – Bank originated, Customer originated, Transactions originated	K1-K4	8	1-4
3	Banking Services for Small and Medium Enterprises	K1-K5	5	1-5
	3.1 Sources and Modes of SME Finance	K1-K4	7	1-4
	3.2 Operational Procedure	K1-K5	8	1-5
4	Corporate Banking	K1-K5	8	1-5
	4.1 Meaning, Evolution and Importance of Corporate Banking		8	
	4.2 Services of Corporate Banking – Cash Management, Debt Management, Factoring, Custodial Services, Trade Services, Offshore Services etc.		8	
5	Recent Developments in Retail and Corporate Banking	K1-K4	2	1-4
	5.1 Importance of Institutional Deposits vis-a-vis Retail Deposits		2	1-2
	5.2 Issues and Challenges in Retail and Corporate Banking		3	1-3
	5.3 Technological Changes in Retail and Corporate Banking			

BOOKS FOR STUDY

Natarajan.R., *Corporate Banking*, Chennai: Create Space Independent Publishing Platform, 2017

Agarwal.O., *Fundamentals of Retail Banking*, New Delhi: Himalaya Publishing House, 2018

BOOKS FOR REFERENCE

Bihari, S. C., *Retail Banking Challenges and Latest Trends in India*, New Delhi: Himalaya Publishing House, 2019

Indian Institute of Banking and Finance, *Retail Banking*, New Delhi: Macmillan Education, 2017

Henderson, J., *Retail and Digital Banking, Principles and Practices*, London: Kogan Page, 2018

Krishnan, S., *Power of Mobile Banking*, USA: Wiley, 2018
 Pond, K., *Retail Banking*, UK: Gosbrook Professional Publishing, 2017
 Suresh, P., *Management of Banking and Financial Services*. Chennai: Pearson, 2017
 V.A. Avadhani, *Fundamentals of Money and Banking*, New Delhi: Himalaya Publishing House, 2021

WEB SOURCES

rbi.org.in/upload/speeches/pdfs/63378.pdf
<https://m.rbi.org.in>

JOURNALS

Indian Journal of Finance and Banking
 Indian Journal of Finance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3, K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/RC26												
II	Course Title: RETAIL, CORPORATE, SMALL AND MEDIUM ENTERPRISES BANKING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	-	-	3	3	1	-	-
CO 2	3	3	2	3	3	3	1	1	3	3	1	2	1
CO 3	3	3	3	1	3	3	1	-	2	2	3	2	1
CO 4	3	3	2	2	3	3	1	1	2	3	3	1	3
CO 5	3	3	3	1	3	3	2	-	2	1	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES, INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

ACCOUNTING SOFTWARE PRACTICAL

CODE: 23VB/VA/AS25

CREDITS: 5

L T P: 1 0 4

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide insights on basic concepts and principles of accounting software
- To enable students on how to perform bank reconciliation using Tally
- To acquaint students with inventory management using Tally
- To enable students to understand the importance of accounting software in business environment
- To equip students in the preparation of financial reports

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic functions of tally in accounting	K1
CO2	explain the purpose of using Tally in managing financial data.	K2
CO3	apply and identify the day-to-day transactions using accounting software	K3
CO4	analyse difference in financial data by comparing ledger entries in Tally.	K4
CO5	evaluate the accuracy of financial reports generated by Tally and identify potential errors.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K2	2	1-2
	1.1 Basics of Accounting – Concepts, Conventions		2	
	1.2 Tally – Introduction, Salient Features, Growth and Advantage	K1-K4	4	1-4
	1.3 Challenges associated with Accounting on Computers		5	1-5
	1.4 Company Creation	K1-K5		

UNIT	CONTENT	CL	HRS	CO
2	Groups and Ledgers			
	2.1 Pre-defined Groups	K1-K5	6	1-5
	2.2 Creation of Groups	K1-K4	5	1-4
	2.3 Ledgers – Creation, Editing and Deletion	K1-K5	5	1-5
3	Accounting Vouchers			
	3.1 Vouchers - Creation	K1-K5	7	1-5
	3.2 Types of Vouchers		3	
	3.3 Making Entries in Vouchers		3	
4	Inventory			
	4.1 Stock Groups and Categories – Creation, editing and deletion	K1-K5	7	1-5
	4.2 Stock Items – Creation, editing and deletion		3	
	4.3 Voucher Entries for Inventory		3	
5	Financial Reports			
	5.1 Day Book, Cash Book, Trial Balance	K1-K4	3	1-4
	5.2 Profit and Loss Account, Balance Sheet	K1-K5	3	1-5
	5.3 Financial Analysis – Ratio Analysis		2	
	5.4 Stock Summary		2	

BOOKS FOR STUDY

Nadhani A.K. and Nadhani K.K., *Implementing Tally 9*, New Delhi: BPB Publications, 2018

BOOKS FOR REFERENCE

Gupta R.L., M. Radhaswamy, *Advanced Accountancy*, New Delhi: Sultan Chand and Sons, 2018

Jain.S.P., K.L. Narang., *Advanced Accountancy*, New Delhi: Kalyani Publishers, 2018

John E. Harker, Dean W. Wichern, Arthur G. Reitsch, *Business Forecasting*, New Delhi: Prentice Hall of India Pvt. Ltd., 2012

WEB SOURCES

<http://cameron.econ.ucdavis.edu/excel/excel.html>

http://www.cengage.com/resource_uploads/downloads/0840062389_347257.pdf

<http://www.tallyerp9help.com>

JOURNALS

Information System Frontiers - A Journal of Research and Innovation

Information Technology and Management

Quantitative Marketing and Economics

PATTERN OF ASSESSMENT -PRACTICALS

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1,K2 (10)	$2 \times 5 = 10$	1 K1 question 1 K2 question	1 K1 question 1 K2 question
B	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	2 K3 questions 2 K4 questions
C	K5 (20)	$1 \times 20 = 20$	1 K5 question	1 K5 question
	Total	50	5	5

Other Components: Total Marks: 50

Assignment, quiz, open book test, group discussion, MCQ.

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1,K2 (20)	$4 \times 5 = 20$	2 K1 questions 2 K2 questions	2 K1 questions 2 K2 questions
B	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	3 K3 questions 3 K4 questions
C	K5 (40)	$2 \times 20 = 40$	2 K5 questions	3 K5 questions
	Total	100	10	13

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VA/AS25												
II	Course Title: ACCOUNTING SOFTWARE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	3	-	-	3	3	1	1	-
CO 2	2	3	3	1	3	3	-	-	3	3	3	1	-
CO 3	2	3	1	1	3	3	1	-	3	3	3	1	2
CO 4	1	3	3	1	3	3	2	2	3	3	3	1	2
CO 5	1	3	2	1	3	3	3	3	3	3	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

BUSINESS COMMUNICATION

CODE: 23VB/UE/BC22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide knowledge on basic communication and handling skills
- To familiarize students with the barriers to communication
- To enable students to be familiar with email etiquette

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the basic communication process and concepts used in business	K1
CO2	explain the principles of effective communication in a business environment.	K2
CO3	create a business email or memo to convey a specific message to a colleague or client	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K2		1-2
	1.1 Definition, Process of Communication		2	
	1.2 Principles for Effective Business Communication	K1-K3	2	1-3
	1.3 Barrier to Communication		3	
2	1.4 Informal Communication		2	
	Business Correspondence	K1-K2	2	1-2
	2.1 Business Letters – Types of Business Letters	K1-K3	3	1-3
	2.2 Business Documentation: Inter Office Memos, Notices, Orders, Minutes of Meetings		3	
3	2.3 Email Etiquettes			
	Public Speaking and Customer Communications	K1-K3	5	1-3
	3.1 Technical Aspects in the Verbal and Non-Verbal Aspects in Public Speaking		4	
	3.2 Customer Communication through Leaflets, Emails and Letters			

BOOKS FOR STUDY

K.K. Sinha, *Business Communication*, New Delhi: Taxmann Publication, 2020

Meenakshi Raman, Prakash Singh, *Business Communication*, New Delhi: Oxford Press, 2019

BOOKS FOR REFERENCE

Raman Prakash, *Business Communication*, New Delhi: Oxford Press, 2018

Ashley A, Penrose, Thomson *Business Communication for Managers: An Advanced Approach*, U.S.A.: South Western Publisher, 2012

Adler R, *Understanding Human Communication*, New Delhi: Oxford Press, 2018

WEB SOURCES

www.businesscommunication.org

www.smartcommunications.com

JOURNALS

Journal of Business Communication

International Journal of Business Communication

PATTERN OF ASSESSMENT

Continuous Assessment Test

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A Objective Questions	K1	5 x 1 = 5	5 K1 questions	5 K1 questions
B - 50 words	K2	5 x 2 = 10	5 K2 questions	7 K2 questions
C – 150 words	K3	2 x 5 = 10	2 K3 questions	4 K3 questions
	Total	25	12	16

Other Components

Total Marks: 25

Assignments/Objective Test/Quiz/Presentation

No End Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/UE/BC22												
II	Course Title: Business Communication												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	-	-	2	3	3	-	-
CO 2	3	3	3	3	3	3	1	-	1	3	1	2	1
CO 3	3	3	3	3	3	3	1	1	1	3	-	1	1
High Correlation: 3				Moderate Correlation: 2				Low Correlation: 1					

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

BUSINESS ETIQUETTE AND PROFESSIONAL SKILLS

CODE: 23VB/US/BP23

CREDITS: 3

L T P: 0 0 3

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To understand business etiquette skills
- To enable students with the skills and confidence to face business stakeholders with professionalism
- To provide insights on developing appropriate etiquette in a business environment
- To educate students on the need for enhancing interpersonal relationship
- To acquaint students with understanding customer handling skills

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the business etiquettes standards	K1
CO2	explain the factors influencing the business etiquettes.	K2
CO3	apply Emotional Intelligence at Workplace	K3
CO4	compare and contrast various customer handling styles and their impacts on different business environment.	K4
CO5	assess the significance of Interpersonal Relationships in Professional Life	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Business Etiquettes; Meaning, Need and Importance	K1-K2	2	1-2
	1.2 Factors influencing Business Etiquettes	K1-K5	4	1-5
	1.3 Types of etiquettes in a business environment: Telephone, Communication, Meetings, Customer		4	

UNIT	CONTENT	CL	HRS	CO
2	Workplace Behaviour and Emotional Intelligence			
	2.1 Workplace Etiquette – Meaning, Do's and Don'ts of behaviour at workplace	K1-K5	2	1-5
	2.2 Emotional Intelligence – Meaning, Categories and Nature of Emotional Intelligence	K1-K4	3	1-4
	2.3 Use of Emotional Intelligence at Workplace	K1-K5	8	1-5
	2.4 Tips to Enhance Interpersonal Relationship at Workplace		3	
	2.5 Significance of Interpersonal Relationships in Professional Life		3	
3	Customer Handling Skills			
	3.1 Customer Communication: Types	K1-K5	6	1-5
	3.2 Handling Customers		2	
	3.3 Assertive vs Aggressive Communication		2	

BOOKS FOR STUDY

Barbara Pachter with Denise Cowie. *The Essentials of Business Etiquette*, New Delhi: Tata McGraw Hill Education, 2013

Ishita Bhowan. *Improve Your Presentation Skills*, Chennai: V & S Publisher, 2014

BOOKS FOR REFERENCE

Paul. A. Argenti. *Corporate Communication*, New Delhi: Tata McGraw Hill Education, 2018

Ann Marie Sabath. *Business Etiquette – 101 ways to conduct Business with Charm and Savvy*, U.S.A.: FW Media, 2010

Kelly M. Quintanilla & Shawn T. Wahl. *Business and Professional Communication – Keys to Workplace Excellence*, New Delhi: SAGE Publications, 2019

WEB SOURCES

<https://career.vt.edu/develop/business-etiquette.html>

JOURNALS

Journal of Business Communication

International Journal of Management

Journal of Education for Business

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Question Number	Mark Distribution
A (All Questions to be answered)	K1	1 - 5	5 (5 x 1 = 5)
B (All Questions to be answered)	K2	6 - 10	5 (5 x 1 = 5)
C (Internal choice)	K3 / K3	11 or 12	5 (1 x 5 = 5)
	K4 / K4	13 or 14	5 (1 x 5 = 5)
D (Internal choice)	K5 / K5	15 or 16	5 (1 x 5 = 5)
Total			25

Other Components:

Total Marks: 25

Two components will be assessed for cognitive levels between K1 – K5:

Seminars / Quiz / Group discussion / Assignments / Class Presentation

No End Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/US/BP23												
II	Course Title: BUSINESS ETIQUETTE AND PROFESSIONAL SKILLS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	-	3	2	1	1	-	-	3	3	-	-	-
CO 2	2	1	3	2	3	1	-	-	1	3	1	-	-
CO 3	1	3	3	2	3	1	2	1	-	3	3	2	2
CO 4	1	3	3	3	3	1	-	1	3	3	3	1	2
CO 5	1	2	3	2	3	1	1	1	-	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023–2024)

FINANCIAL SERVICES

CODE: 23VB/VM/FS36

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enable students to understand the importance and relevance of financial services to the economy
- To equip students to analyse different dimensions of financial services
- To familiarize students with the process of mobilizing funds through financial services
- To impart knowledge on the guidance provided by regulatory bodies
- To provide deeper understanding in identifying, analyzing and managing various Mutual Funds in India

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts and terminologies in financial services	K1
CO2	identify the role of financial services in Indian Financial System	K2
CO3	examine the difference between various financial services provided in the financial market	K3
CO4	appraise the performance of various financial instruments in the market	K4
CO5	discuss the impact of financial services on economic development	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial services			
	1.1 Financial services – Meaning, Types - Fund Based and Fee Based Financial Services	K1-K2	5	1-2
	1.2 Non-Banking Financial Companies and its Functions	K1-K4	5	1-4
	1.3 Financial Inclusion- Meaning – Objectives – Approaches to Financial Inclusion in India	K1-K4	5	1-4
2	Leasing and Hire Purchase			
	2.1 Leasing - Types of Lease - Financial Evaluation of a Lease	K1-K3	4	1-3
	2.2 Contents of a Lease Agreement	K1-K4	4	1-4
	2.3 Hire Purchase – Features, Legal Position, Bank and Hire Purchase Business	K1-K5	4	1-5
	2.4 Consumer Durables Finance		3	
3	Factoring			
	3.1 Factoring – Meaning and Types, Bills Discounting, Credit Rating	K1-K3	6	1-3
	3.2 Rating Agencies and its Functions	K1-K4	6	1-4
	3.3 Rating Methodology	K1-K5	4	1-5
4	Merchant Banking			
	4.1 Merchant Banking – Activities in New Issue Market – Managing Issue of Shares and Bonds	K1-K4	4	1-4
	4.2 SEBI Guidelines for New Issue Market and Role of Lead Managers	K1-K5	4	1-5
	4.3 Registrar and Transfer Agent (RTA)	K1-K4	4	1-4
	4.4 Depository Participants	K1-K5	4	1-5
5	Mutual Funds			
	5.1 Mutual Funds – Mechanism, Types, Features, Methods, Stages and Criteria	K1-K3	4	1-3
	5.2 Mutual Funds Industry in India	K1-K4	4	1-4
	5.3 Venture Capital – Features – Methods – Stages and Criteria	K1-K5	8	1-5
	5.4 Buyouts, Private Equity, Crowd Funding			

BOOKS FOR STUDY

S. Gurusamy, *Essentials of Financial Services*, Chennai: Vijay Nicole Imprints Pvt. Ltd, 2023
M.Y. Khan, *Financial Services*, New Delhi: Tata McGraw Hill, 2019

BOOKS FOR REFERENCE

Gordon E. Natrajan, *Financial Services*, New Delhi: Himalaya Publishing House, 2020
S. Natrajan S. Parameshwaran, *Indian Banking*, New Delhi: Chand and Co., 2013
H.R. Machiraju, *Indian Financial System*, Kolkata: Vikas Publishing House Pvt Ltd, 2013

WEB SOURCES

www.bseindia.com
www.nseindia.com

JOURNALS

Journal of Banking and Finance
Journal for Financial Services Research

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/FS36												
III	Course Title: FINANCIAL SERVICES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	-	3	3	3	2	-
CO 2	3	3	3	3	3	3	1	-	3	3	3	2	-
CO 3	3	3	3	3	3	3	1	-	3	3	3	2	2
CO 4	3	3	3	3	3	3	1	-	3	3	3	3	2
CO 5	3	3	3	3	3	3	1	3	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

BUSINESS MANAGEMENT

CODE: 23VB/VM/BM36

CREDITS: 6

LTP: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To acquaint students with the basic concepts of management
- To equip students with the principles and functions of management
- To familiarise students with the contributions made by management thinkers
- To provide students with the knowledge on different types of leadership styles
- To enable students to apply the managerial skills in decision making

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the basic terms and concepts of management	K1
CO2	interpret various contributions by management thinkers	K2
CO3	examine the skills required for effective management	K3
CO4	analyse the traits, dimensions, and styles of effective leaders	K4
CO5	assess the importance of employee motivation in an organization	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Management			
	1.1 Definition, meaning and Functions Management	K1	3	1
	1.2 Managerial skills and levels of management	K1-K3	6	1-3
	1.3 Contribution to management thinking by Henry Fayol, F.W. Taylor and Peter F. Drucker	K1-K4	6	1-4

UNIT	CONTENT	CL	HRS	CO
2	Planning	K1-K3		1-3
	2.1 Nature and Importance of Planning		4	
	2.2 Types of plans – Policies, Procedures, Strategies, Objectives, Rules, Budgets		6	
	2.3 Obstacles to effective planning		5	
3	Organising and Departmentation	K1-K3		1-3
	3.1 Organizing		6	
	3.1.1 Nature and Importance			
	3.1.2 Types – Line, Line and Staff and Functional Organizations			
	3.2 Delegation and De-centralization		4	
	3.3 Departmentation		4	
4	Staffing	K1-K3		1-3
	4.1 Recruitment and Selection		8	
	4.2 Training – Need, Types of Employee Training		7	
	4.3 Motivation – Meaning and Maslow’s Theory of Motivation	K1-K4	3	1-4
	4.4 Leadership – Types of Leaders, Span of Control	K1-K5	5	1-5
5	Communication	K1-K5		1-5
	5.1 Meaning, Nature and Elements of Communication		5	
	5.2 Types and Process		3	
	5.3 Barriers to effective Communication		3	

BOOK FOR STUDY

Gupta, C. B. *Business Management*. New Delhi: Sultan Chand, 2018

Prasad L.M. *Principles and Practice of Management*, New Delhi: Sultan Chand, 2020

BOOKS FOR REFERENCE

Pagare Dinakar. *Principles of Management*, New Delhi: Sultan Chand, 2018

Robbins, S. and Coulter, M, *Management*, New Delhi: Pearson Education, 2020

Robbins, S. P. Decenzo, D.A., Bhattacharya, S. and Agrawal, M.M., *Fundamentals of Management: Essentials, Concepts and Applications*, New Delhi: Pearson Education, 2019

Drucker P.F., *Practice of Management*, London: Mercury Books, 2016

Singh, B.P. and Singh, A.K., *Essentials of Management*, Chennai: Excel Books, 2017

Chhabra, T.N., *Essentials of Management*, New Delhi: Sun India, 2015

Griffin, R.W., *Management Principles and Application*, Noida: Cengage Learning, 2017

WEB RESOURCES

www.exed.hbs.edu

www.hbr.org

www.xlri.ac.in

JOURNALS

European Journal of Business Management

International Journal of Management Reviews

Academy of Management Journal

Management Science

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/BM36												
III	Course Title: BUSINESS MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	-	-	2	-	3	3	3	-	-
CO 2	3	3	3	3	-	-	2	-	3	3	3	2	-
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	1	3	2	2	3	3	3	3	2
CO 5	3	3	3	3	2	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023–2024)

INDIAN SECURITIES MARKET

CODE: 23VB/VM/IS34

CREDIT: 4

LTP: 2 0 2

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to understand the stock market operations
- To provide comprehensive knowledge on the functions of stock market
- To familiarize students with stock trading
- To acquaint students to different kinds of stock market speculators
- To impart knowledge on the regulatory bodies guiding and regulating the stock market operations

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and recognise the basics of investing in stock market	K1
CO2	explain the importance of regulatory bodies	K2
CO3	identify the emerging trends of Indian Financial System	K3
CO4	analyse the need for financial instruments	K4
CO5	evaluate the stock market scams in India	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1- K2	3	1-2
	1.1 Market of new issues – Need for floating capital			
	1.2 Public Offer - Private Placement – Rights Issue – Equity and Debt	K1-K3	3	1-3
	1.3 Recent trends in public issues		3	
2	Stock Exchange	K1-K2	6	1-2
	2.1 Stock Exchange – Services, Role and Organization of Stock Exchange in India			
	2.2 Listing of Securities – Requirements and Procedures	K1-K4	6	1-4
3	Stock Market Participants and Trading	K1-K5	3	1-5
	3.1 Types of Brokers			
	3.2 Methods of Trading in Stock Exchange – Carry Over or Badla, Genuine and Speculative Trading		7	
4	Speculators	K1-K3	6	1-3
	4.1 Types of Speculators			
	4.2 Mechanism of Trading and Settlement	K1-K5	6	1-5
5	Stock Market Regulation	K1-K4	3	1-4
	5.1 Regulations and Regulatory Agencies for Secondary Markets			
	5.2 Stock Holding Corporation of India	K1-K5	4	1-5
	5.3 Depository System in India		2	

BOOKS FOR STUDY

Avadhani, V.A., *Capital Market Management*, New Delhi: Himalaya Publications, 2023

BOOKS FOR REFERENCE

Bhole, L.M., *Financial Institutions and Markets: Structure, Growth and Innovations*, New Delhi: McGraw Hill, 2017

Khan M. Y., *Indian Financial System*, New Delhi: Tata McGraw Hill Publications, 2019

Saunders, Anthony and Cornett, Marcia Millon, *Financial Markets and Institutions: An*
 Anthony Saunders, Marcia Cornett, *Introduction to the Risk Management Approach*, New York: McGraw Hill, 2021

WEB SOURCES

www.bloomberg.com

www.nse-india.com

JOURNALS

Financial Markets, Institutions and Instruments

Journal of Financial Management, Markets and Institutions

Journal of International Financial Markets, Institutions and Money

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/IS34												
III	Course Title: INDIAN SECURITIES MARKET												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	-	3	3	3	2	3
CO 2	3	3	3	3	3	3	1	-	3	3	3	2	3
CO 3	3	3	3	3	3	3	1	-	3	3	3	2	3
CO 4	3	3	3	3	3	3	1	-	3	3	3	2	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023–2024)

ESSENTIALS OF MARKETING

CODE: 23VB/VM/EM34

CREDITS: 4

L T P: 2 0 2

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enable students to understand the intricacies of marketing a product and service
- To prepare students to face the challenges in marketing environment
- To acquaint students with the marketing mix and its impact on various stages of marketing
- To provide comprehensive knowledge on the recent developments in the field of marketing
- To familiarise students with strategies involved in pricing and promoting a product or service

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline various concepts, tools and principles of marketing	K1
CO2	associate the recent marketing practices and its application in business scenario	K2
CO3	apply modern marketing concepts and its usefulness	K3
CO4	recommend socially relevant Marketing initiatives	K4
CO5	evaluate existing marketing strategies and tactics	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Marketing - Meaning and Definition	K1-K3	2	1-3
	1.2 Functions of Marketing	K1-K2	2	1-2
	1.3 Role and Importance of Marketing	K1-K4	2	1-4
	1.4 Classification of Markets	K1-K5	3	1-5

UNIT	CONTENT	CL	HRS	CO
2	Market Segmentation and Consumer Behaviour			
	2.1 Market Segmentation - Concept - Benefits - Basis and Levels.	K1-K3	3	1-3
	2.2 Introduction to Consumer Behaviour - Need & Importance	K1-K5	3	1-5
	2.3 Consumer Buying Decision Process, Buying Motives	K1-K3	5	1-3
	2.4 Marketing Research - MIS - Meaning and Importance		4	
3	Marketing Mix and Product Policy			
	3.1 Marketing Mix	K1-K3	3	1-3
	3.2 Product – Introduction, Product Policy, Product Planning, Stages of New Product Development, Product Life Cycle	K1-K4	3	1-4
	3.3 Product Packaging, Branding, Labelling, Product Mix, Price, Pricing Policies and Methods	K1-K5	4	1-5
4	Channels of Distribution			
	4.1 Channels of Distribution - Levels and Channel Members	K1-K4	3	1-4
	4.2 Promotion and Communication Mix	K1-K5	3	1-5
5	Recent Trends in Marketing			
	5.1 Digital Marketing	K1-K3	4	1-3
	5.2 Recent trends in social media marketing	K1-K4	4	1-4
	5.3 Influencer marketing in social media	K1-K5	4	1-5

BOOKS FOR STUDY

Rajan Nair, *Marketing*, New Delhi: Sultan Chand & Sons, 2020

Varshney, *Marketing Management*, New Delhi: Sultan Chand & Sons, 2018

BOOKS FOR REFERENCE

Radha, *Marketing*, Chennai: Prasanna Publications, 2014

Natrajan L, *Marketing Management*, Chennai: Margham Publications, 2017

Sundar, K. *Essentials of Marketing*, Chennai: Vijay Nicole Imprints Pvt. Ltd., 2016

WEB SOURCES

www.marketmotive.com

<http://emailmarketing.comm100.com/email-marketingtutorial/>

www.marketing91.com

JOURNALS

Indian Journal of Marketing

Journal of Consumer Marketing

Journal of Marketing Management

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/EM34												
III	Course Title: ESSENTIALS OF MARKETING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	-	-	3	3	3	3	-
CO 2	3	3	3	3	3	3	1	3	3	3	3	3	2
CO 3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

CUSTOMER RELATIONSHIP MANAGEMENT

CODE: 23VB/VE/CR35

CREDITS: 5

LTP: 2 0 3

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarise students with the basic concepts of customer relationship management
- To equip students on the CRM implementation techniques and relationship practices
- To enable students with phases of CRM cycle
- To educate students on customer buying decision process
- To provide insight on changing trends in CRM in industries

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the basic concepts related to customer relationship management	K1
CO2	summarize on importance of customer satisfaction and loyalty in business	K2
CO3	apply CRM strategies to real time business scenarios	K3
CO4	classify the effectiveness of CRM strategies in improving customer relationships and achieving organizational goals.	K4
CO5	recommend the impact of CRM on customer satisfaction, loyalty, and overall business performance	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Definition and Concepts of Customer Relationship Management	K1-K2	2	1-2
	1.2 Understanding Customer Buying Decision Making Process	K1-K3	2	1-3
	1.3 Customer Life Cycle		2	
	1.4 Elements of Customer Relationship Management	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
2	Customer Relationship Management Process and Planning			1-2
	2.1 Phases and Objectives of CRM process	K1-K2	7	
	2.2 Phases of CRM cycle		4	
	2.3 Customer knowledge and Relationship Policy	K1-K4	4	1-4
3	Customer Relationship Management and Marketing	K1-K4	5	1-4
	3.1 Evaluation of Customer Relationship Marketing			
	3.2 Types of CRM – Win Back, Prospecting, Cross Selling , Up Selling	K1-K5	6	1-5
	3.3 Brand Loyalty and Brand Equity		4	
4	Customer Relationship Management and Implementation			
	4.1 CRM Implementation – Structure, Choice of Technology, Reporting	K1-K5	8	1-5
	4.2 Data Storage and Data Mining and Retrieval		3	
	4.3 Market Intelligence and Information systems for Effective CRM		4	
5	Recent Trends in Customer Relationship Management			
	5.1 Managing Customer Retention in Retail Industry	K1-K5	2	1-5
	5.2 Technology changes – Call Centre, Information Centres, social media in CRM		4	
	5.3 CRM in New Industries		4	

BOOK FOR STUDY

Jagdish N Sheth, Parvatiyar Atul & G Shainesh, *Customer Relationship Management: Concepts, Tools and Application*, New Delhi: Tata McGraw Hill, 2017

Dr. Ruchi Jain and Dr. Ruchika Jeswal, *Customer Relationship Management - A Conceptual Approach*, Noida: Galgotia Publishing, 2019

BOOKS FOR REFERENCE

Max Fatouretchi, *The Art Of CRM: Proven Strategies For Modern Customer Relationship Management*, UK: Packt Publishing, 2019

Roberts Graham-Phelps, *Customer Relationship Management*, New Delhi: Tata McGraw Hill, 2011

Paul Greenberg, *Customer Relationship Management at the speed of light*, New Delhi: Tata McGraw Hill, 2010

WEB SOURCES

<http://www.forbes.com/>

<http://www.nielsen.com/>

www.marketing-trends-congress.com

JOURNALS

International Journal of Research in Marketing

Indian Journal of Marketing

Journal of Marketing Theory and Practice

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
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C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VE/CR35												
III	Course Title: CUSTOMER RELATIONSHIP MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	-	-	3	3	3	-	-
CO 2	3	3	3	3	-	3	1	2	3	3	3	1	2
CO 3	3	3	3	3	3	3	1	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

BUSINESS STATISTICS

CODE: 23VB/VE/BS35

CREDITS: 5

LTP: 2 0 3

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce basic concepts of descriptive statistics
- To provide an insight on use of statistics in business
- To enable students to interpret the data using various statistical tools
- To familiarize students with the various statistical tools used for analysis
- To facilitate students to make rational decision through analysis and interpretation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic concepts of statistics	K1
CO2	interpret data analysis for making decisions	K2
CO3	apply the various statistical tools in the process of business research	K3
CO4	examine the data by applying the statistical tests	K4
CO5	evaluate statistical tools associated with research in business	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Statistics – Meaning, Definition, Functions, Scope & Limitations	K1-K2	5	1-2
	1.2 Measures of Central Tendency – Mean, Median, Mode Measures of Dispersion – Standard Deviation, Variance	K1-K3	10	1-3
2	Correlation and Regression			
	2.1 Introduction - Types of Correlation	K1-K2	2	1-2
	2.2 Correlation Co-efficient –Computation		4	
	2.3 Simple Linear Regression Analysis Multiple Regression	K1-K4	4	1-4

UNIT	CONTENT	CL	HRS	CO
3	Analysis of Time Series			
	3.1 Utility and Components of Time series	K1-K3	5	1-3
	3.2 Methods of Measuring Trend - Measurement of Seasonal Variations	K1-K5	10	1-5
4	Testing of Hypothesis	K1-K3	3	1-3
	4.1 Procedure for testing hypothesis			
	4.2 Test of significance	K1-K5	4	1-5
	4.3 For large samples		4	
	4.4 For small samples- Limitations of Test of Significance		4	
5	Chi Square Test and Goodness of Fit	K1-K3	2	1-3
	5.1 Meaning and condition for applying chi- square test			
	5.2 Application of chi square test - Test of Goodness of fit and Test of Independence	K1-K5	4	1-5
	5.3 Yates Correction		3	
	5.4 Uses and limitations of chi square	K1-K3	1	1-3

BOOKS FOR STUDY

Gupta, S.P., and Archana Gupta. *Statistical Methods*, New Delhi: Sultan Chand and Sons, 2022
 Levin, Richard, David S. Rubin, Rastogi, and Siddiqui. *Statistics for Management*, New Delhi: Pearson Education, 2011

BOOKS FOR REFERENCE

Berenson and Levine, *Basic Business Statistics: Concepts and Applications*, New Delhi: Pearson Education, 2020
 Siegel Andrew F. *Practical Business Statistics*. New Delhi: Tata McGraw Hill, 2016
 Vohra N. D., *Business Statistics*, McGraw Hill.2017
 Spiegel M.D., *Theory and Problems of Statistics*, New Delhi: Tata McGraw Hill Publishing Co, 2017
 Gupta, S.C. *Fundamentals of Statistics*, New Delhi: Himalaya Publishing House, 2023
 Anderson Sweeney and William, *Statistics for Students of Economics and Business*, USA: Cengage Learning, 2019

WEB SOURCES

<https://www.cuemath.com/data/statistics/>
<https://www.britannica.com/science/statistics/Numerical-measures>

JOURNALS

Journal of applied statistics
 Statistical science
 Journal of Computational and Graphical Statistics

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2 K4 questions (Only Problems) Internal Choice
D	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VE/BS35												
III	Course Title: BUSINESS STATISTICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	-	-	3	3	3	-	-
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	1	3	3	3	-	2
CO 5	3	3	3	3	3	3	2	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENVIRONMENTAL STUDIES

CODE: 23VB/UC/ES32

CREDITS : 2

L T P : 2 0 0

TOTAL TEACHING HOURS : 26

OBJECTIVES OF THE COURSE

- To create an awareness about current environmental issues
- To educate students on conservation and management of natural resources
- To encourage students to be ecosensitive and ecofriendly

Unit 1

Introduction

(6hrs.)

- 1.1 Components of the Environment – Classification and Characteristics of Resources – Renewable and Non – Renewable Resources
- 1.2 Need for Public Awareness in Conservation of Natural Resources
- 1.3 Energy Flow in Ecosystems – Aquatic and Terrestrial – Food Chain and Food Web

Unit 2

Pollution and Socio Economic Aspects of the Environment

(10hrs.)

- 2.1 Types of Pollution – Air, Water, Solid Waste, Noise
- 2.2 Problems - Green House Effect – Depletion of the Ozone Layer – Climate Change
- 2.3 Bio Diversity - Definition - Loss of Bio Diversity – Threats to Biodiversity and Conservation of Biodiversity
- 2.4 Human Behaviour: - Population – Urbanization – Poverty (As Cause and Result of Pollution and Degradation)
- 2.5 Technology: Agriculture and Industry – Deforestation. Misuse and Abuse of the Resources
- 2.6 Effects and Consequences of Environmental Problems

Unit 3

Sustainable Development, Remedies and Policy Implications

(10 hrs.)

- 3.1 Environmental Disasters Natural and Human Made – Bhopal Gas Tragedy – Chernobyl Accident – Fukushima Nuclear Crisis - Gulf War – Love Canal Episode – Tsunami – Volcanic Eruptions
- 3.2 Methods Evolved to Measure and Check Environmental Degradation and Pollution – Carbon Footprint, Carbon Credit, Ecological Footprint, and Ecological Shadow
- 3.3 Environmental Movements in India – Chipko Movement, Narmada Bachao Andolan, Sethu Samudram Project
- 3.4 Environmental Acts – Policy Measures with respect to India
- 3.5 International Environmental Agreement – Stockholm Conference – Montreal Protocol – Rio Meet – Kyoto Conference – UN Conference on Climate Change (Copenhagen)

Field visit

Eco initiatives at the campus: Garbage Segregation and Vermicomposting – Greywater Recycling – Rainwater Harvesting – Solar Powered Lights – Biodiversity

TEXT BOOK

Bharucha, E. *Textbook of Environmental Studies*. Hyderabad: Universities Press, 2005.

REFERENCE BOOKS

Ignacimuthu, S. *Environmental Awareness and Protection*. New Delhi: Phoenic House, 1997. Jadhav, H and V. M. Bhosale. *Environmental Protection and Law*. New Delhi: Himalaya, 1995. Odum, E.P.

Fundamentals of Ecology. U.S.A: W.B. Saunders, 1971.

Mies, M and V. Shiva. *Ecofeminism*, London: Zed Books, 1989. Singh, H.R.

Environmental Biology. New Delhi: S.Chand, 2005.

PATTERN OF EVALUATION

Continuous Assessment: (Totally internal)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

COST AND MANAGEMENT ACCOUNTING

CODE: 23VB/VM/CM46

CREDITS: 6

LTP: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To comprehend the difference between cost and management accounting
- To familiarize the students with the computation of material cost
- To expose students to methods of overhead absorption
- To enable students to understand and compute labour cost
- To provide an understanding on the project appraisal techniques

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the relationship between cost and management accounting	K1
CO2	interpret on various techniques used in management and cost accounting	K2
CO3	apply the different tools for determining various costs and overheads	K3
CO4	analyse and interpret on costs and budget	K4
CO5	assess the methods of project appraisal for computation of overheads	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1	3	1
	1.1 Meaning, Definition, Nature and Scope			
	1.2 Advantages and Limitations of Cost and Management Accounting			
	1.3 Difference and Relationship between Cost and Management Accounting	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
2	Material Cost	K1-K5	4	1-5
	2.1 Computation of material cost			
	2.2 Accounting Treatment for Normal, Abnormal Loss and Scrap		6	
	2.3 Computation of EOQ and Stock Levels		6	
	2.4 Methods of Material issue-FIFO, LIFO, Average Cost-Simple and Weighted Average		6	
3	Labour cost	K1-K5		1-5
	3.1 Computation of labour cost with overtime and idle Time		4	
	3.2 Methods of Remuneration -Time Rate System, Piece Rate system, Taylor's Differential Piece Rate System		7	
	3.3 Incentive Plans-Halsay Premium Plan, Rowan Premium Plan		7	
4	Overheads	K1-K5		1-5
	4.1 Importance and classification of overheads cost		1	
	4.1.1 Primary Distribution of Overheads		3	
	4.1.2 Secondary Distribution of Overheads-Direct Distribution		4	
	4.2 Methods of Absorption of Overheads	K1-K5	1	1-5
	4.2.1 Direct Labour Hour Rate		3	
	4.2.2 Machine Hour Rate		3	
5	Capital Budgeting	K1-K3	2	1-3
	5.1 Nature of Capital Budgeting			
	5.2 Evaluation Techniques-Pay Back Period, Average Rate of Return, Net Present Value, Internal Rate of Return and Profitability Index	K1-K5	13	1-5

BOOK FOR STUDY

Reddy T.S and A. Murthy, *Cost Accounting*, Chennai: Margham Publications, 2020
Dr. A. Murthy, *Financial Management*, Chennai: Margham Publications, 2018

BOOKS FOR REFERENCE

Jain, S.P. and Narang K.L. *Cost Accounting*, New Delhi: Kalyani Publishers, 2017
M.Y. Khan and P.K. Jain, *Cost Accounting*, McGraw Hill, 2017
Maheswari S.N and S.N. Mittal, *Cost Accounting-Theory and Problems*, New Delhi: Sultan Chand, 2015
Pandey, I.M, *Financial Management*, New Delhi: Vikas Publications, 2016

WEB SOURCES

https://www.icsi.edu/media/webmodules/publications/FULL_BOOK_PP-CMA-2017-JULY_4.pdf

https://icmai.in/upload/Students/Syllabus-2008/StudyMaterial/Cost_Mgmt_Ac.pdf

JOURNALS

The Journal of Cost Accounting Research

Journal of Cost Management

Management Accounting Research

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 ×5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2 K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/CM46												
IV	Course Title: COST AND MANAGEMENT ACCOUNTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	-	3	-	-	-	-	3	-	2	-	-
CO 2	3	3	2	3	1	2	2	2	3	2	3	1	1
CO 3	3	3	2	3	1	3	2	2	3	2	3	1	2
CO 4	3	3	2	3	1	3	2	2	3	2	3	1	2
CO 5	3	3	2	3	1	3	2	1	3	2	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

FINANCIAL MARKETS

CODE: 23VB/VM/FM46

CREDITS: 6

LTP: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the functioning of Indian financial markets and institutions
- To familiarize students about the recent developments in Indian money market
- To enable students to differentiate between new issue market and stock market
- To identify the financial market players
- To provide an insight into the stock exchange mechanism

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts of financial services	K1
CO2	classify the markets based on services	K2
CO3	identify the importance of financial markets	K3
CO4	distinguish between the services rendered by financial markets	K4
CO5	recommend the need of governing bodies for functioning of financial markets	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial System in India	K1-K2		1-2
	1.1 Financial Concepts, Functions of Financial System, Financial Assets and its classifications		2	
	1.2 Financial Intermediaries and its classifications		2	
	1.3 Financial Markets and its Classifications		2	1-5
	1.4 Financial Instruments and its Characteristics	K1-K5	4	
	1.5 Financial System and Economic Development		5	

UNIT	CONTENT	CL	HRS	CO
2	Money Market			
	2.1 Definition, Features, Objectives, Characteristics and Importance	K1-K2	2	1-2
	2.2 Structure of Indian Money Market	K1-K3	3	1-3
	2.3 Money Market and its Instruments in Detail		3	
	2.4 Principles of Financial Market and Understanding Interest Rates	K1-K5	6	1-5
	2.5 Recent Developments		2	
3	New Issue Market			
	3.1 Primary Market System and Regulations in India, Functions of New Issue Market	K1-K2	4	1-2
	3.2 Stock Exchanges in India: History, Development and Importance		4	
	3.3 Relationship between New Issue Market and Stock Exchange, Underwriting, Advantages, Issue of Capital: Methods of Floating New Issues	K1-K5	5	1-5
	3.4 Instruments of Issue Management and Players in New Issue Market		3	
4	Secondary Markets			
	4.1 Secondary Market System and Regulations in India	K1-K3	2	1-3
	4.2 Depositories: Growth, Development, Regulation, Mechanism OTC Exchange		3	
	4.3 Stock Exchange Mechanism, Advantages of Holding Demat account	K1-K5	3	1-5
	4.4 Investor Grievances, Basics of Pricing Mechanism, Carry Forward, Badla		4	
	4.5 Players on Stock Exchange: Investors, Speculators, Market Makers, Bulls, Bears, Stag		4	
5	Regulations and Agencies			
	5.1 Stock Exchange Regulations, SEBI Guidelines for Brokers and Sub Brokers	K1-K5	6	1-5
	5.2 Stock Exchange Board		3	
	5.3 Stock Indices		3	
	5.4 Role of FIIs, MFs and Investment Bankers		3	

BOOK FOR STUDY

S. Gurusamy, *Essentials of Financial Services*, Vijay Nicole Imprints Pvt. Ltd, Chennai, 2023
 M.Y. Khan, *Financial Services*, 10th Edition, Tata McGraw Hill, New Delhi, 2019

BOOKS FOR REFERENCE

Gurusamy S. *Financial Services and Markets. Chennai:* Vijay Nicole Imprints, 2015
 Khan, M.Y. *Financial Services. New Delhi:* Tata McGraw Hill, 2019
 Machiraju H. R., *Indian Financial System*. New Delhi: Vikas, 2018

WEB SOURCES

www.cisi.org
 www.arthayantra.com
 www.investopedia.com

JOURNALS

Journal of Emerging Market Finance
 Journal of Risk and Financial Management
 Indian Journal of Research in Capital Markets

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/FM46												
IV	Course Title: FINANCIAL MARKETS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	-	-	-	-	3	3	-	-	-
CO 2	3	3	1	3	1	1	-	-	3	3	-	-	-
CO 3	3	3	1	3	2	1	1	1	3	2	1	2	1
CO 4	3	3	1	3	2	1	1	-	3	2	1	2	1
CO 5	3	3	1	3	3	1	2	1	3	2	1	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

FINANCIAL PLANNING

CODE: 23VB/VM/FP44

CREDITS: 4

LTP: 2 0 2

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To expose students to basic concepts of financial planning
- To provide an insight for setting financial goal
- To enable students to know the concept of planning of finance for a better future
- To familiarize students in planning their personal finance
- To enlighten students to identify investment schemes for retirement

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts of financial planning	K1
CO2	summarize on need for financial planning	K2
CO3	identify the process of financial planning and the risk involved in implementation	K3
CO4	discuss the various investment platforms for financial planning	K4
CO5	estimate savings and prepare an investment plan for future	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Financial Planning			
	1.1 Financial planning–Meaning, Importance and Process	K1-K2	2	1-2
	1.2 Legal Aspects of Financial Planning	K1-K3	2	1-3
	1.3 Importance of Risk Management in Financial Planning		4	
2	Risk Analysis			
	2.1 Return on Investment and Risk Profiling	K1-K3	4	1-3
	2.2 Assessment of Risk in different Financial Instruments	K1-K4	6	1-4

UNIT	CONTENT	CL	HRS	CO
3	Investment Planning	K1-K3	2	1-3
	3.1 Needs and Benefits of Investing		2	
	3.2 Sources of Financial Information	K1-K5	6	1-5
	3.3 Investment Options for Individual Investors – Bonds, Shares, Mutual Funds, Fixed Deposits and other Investments		2	
4	3.4 Operational Constraints while Investing	K1-K3	2	1-3
	Planning of Personal Finance	K1-K5	4	1-5
	4.1 Personal Financial Goals and Life Cycle Approach		4	
	4.2 Elements and Structure of Personal Financial Plan		4	
5	4.3 Estimation of Savings using Time Value Concepts	K1-K5	4	1-5
	Retirement Planning		4	
	5.1 Retirement Planning –Need Analysis		4	
	5.2 Investment Schemes for Retirement	K1-K5	4	1-5
	5.3 Development of Retirement Plan		4	

BOOKS FOR STUDY

Dr. Amith Kumar Sinha, *Financial Literacy*, Noida: Taxmann Publications, 2023

Dr. Amith S. Thite & Pradeep Kumar Sinha, *Personal Financial Planning*, New Delhi: Nirali Prakashan., 2020

BOOKS FOR REFERENCE

Dr. Vimal Krishna Rajput, *5 W's of Financial Planning*, Chennai: Notion Press, 2021

Murali & Subbakrishna, *Personal Financial Planning*, New Delhi: Himalaya Publication, 2018

Indian Institute of Banking & Finance, *Introduction to Financial Planning*, Noida: Taxmann Publications, 2017

WEB SOURCES

<http://www.saylor.org/site/textbooks/PersonalFinance.pdf>

www.bogleheads.org/wiki/Financial_planning

www.planningalt.com

JOURNALS

Journal of Wealth Management

The Insurance and Investment Journal of Individual Financial Management

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	$5 \times 2 = 10$	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	$4 \times 5 = 20$	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	$2 \times 15 = 30$	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/FP44												
IV	Course Title: FINANCIAL PLANNING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	-	-	-	1	1	-	-	-
CO 2	3	3	3	3	3	2	1	-	2	3	-	-	-
CO 3	3	3	3	3	3	2	2	1	3	3	2	2	3
CO 4	3	3	3	3	3	2	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	2	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023–2024)

ADVERTISING

CODE: 23VB/VM/AD44

CREDITS: 4

L T P: 2 0 2

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce the concept of advertising and sales promotion
- To provide comprehensive knowledge on the essentials of advertisement
- To familiarize students with various sales promotion activities
- To introduce students to e-advertising platforms
- To educate students to measure effectiveness of advertising

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the fundamental concepts of advertising and sales promotion	K1
CO2	classify the advertisements on their nature	K2
CO3	identify challenges in advertising goods and services on electronic media	K3
CO4	analyse the effect of sales promotion in marketing and selling goods and services	K4
CO5	evaluate the role of advertising in the field of marketing	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction			
	1.1 Advertising – Meaning, Importance, Objectives	K1-K3	3	1-3
	1.2 Media - Print Media, Electronic Media, Outdoor Media & Transportation Advertising, Cinema, Exhibitions, Trade fair	K1-K4	3	1-4
	1.3 Advertising Industry in Global and India Scenario	K1-K5	4	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Advertising Agencies			
	2.1 Features and Functions of Advertising Agencies	K1-K3	3	1-3
	2.2 Selection of an Advertising Agency	K1-K5	2	1-5
	2.3 Agency & Client relationship - Responsibilities of Agency and Client	K1-K3	3	1-3
	2.4 Ethics in Advertising	K1-K4	2	1-4
3	Advertising Budgeting and Controlling			
	3.1 Advertising Budget –Definition, Objectives, Importance	K1-K3	4	1-3
	3.2 Factors influencing an Ad Budget, Methods of measuring advertising effectiveness-Pre & Post testing techniques	K1-K4	4	1-4
	3.3 Advantages of measuring advertising effectiveness, Difficulties in measuring advertising effectiveness.	K1-K5	4	1- 5
4	Sales Promotion			
	4.1 Sales Promotion: Meaning, Methods, Promotional Strategy	K1-K4	3	1-4
	4.2 Advertising Technique of Sales Promotion, Consumer and Dealer Promotion	K1-K5	4	1-5
	4.3 After Sales service - Warranty, Guarantee	K1-K2	3	1-2
5	Recent Trends in Advertising			
	5.1 E - Advertising – Meaning, Importance, Advantages	K1-K3	3	1-3
	5.2 Types of E - Advertisements	K1-K5	3	1-5
	5.3 Impact of E – Advertisements on Sales and Revenue, Challenges & Drawbacks in E - Advertising	K1-K3	4	1-3

BOOKS FOR STUDY

C.N. Sontakki, *Advertising*, New Delhi: Kalyani Publishers, 2020

Chris Hackley, Runka Amy Hackley, *Advertising & Sales Promotion*, New Delhi: Sage Publications, 2018

BOOKS FOR REFERENCE

S.A. Chunawalla, *Foundations of Advertising: Theory and Practice*, New Delhi: Himalaya Publications, 2017

Sarangi SK, *Advertising and Sales Promotion*, New Delhi: Asian Books Pvt. Ltd., 2011

George E Belch, *Advertising and Promotion*, New Delhi: Tata McGraw Hill, 2017

WEB SOURCES

<https://www.livemint.com/topic/advertisement>

<https://www.masscommunicationtalk.com/advertising-and-objectives-of-advertisement.html>

JOURNALS

Journal of Advertising

The Journal of Advertising Research

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/AD44												
IV	Course Title: ADVERTISING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	1	-	-	-	3	-	2	-
CO 2	3	3	3	3	3	2	-	-	-	3	1	3	1
CO 3	3	3	3	3	3	2	1	1	2	3	2	3	2
CO 4	3	3	3	3	3	2	1	-	3	3	3	3	2
CO 5	3	3	3	3	3	2	1	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023–2024)

BUSINESS ETHICS

CODE: 23VB/VE/BE45

CREDIT: 5

LTP: 2 0 3

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the importance of business ethics
- To assess ethical behaviour in work place
- To recognise the importance of environmental audit
- To educate students on ethics in finance
- To equip students to handle conflicts of interest in workplace

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate basic concepts of business ethics	K1
CO2	outline the need to adopt workplace ethics	K2
CO3	identify unethical practices followed in a business entity	K3
CO4	examine the importance of whistle blowing and the necessity to protect the whistle blower	K4
CO5	exhibit professionalism in various functions of management	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Business Ethics			
	1.1 Meaning, Scope, Objectives and Characteristics of Business Ethics	K1-K2	4	1-2
	1.2 Importance of Business Ethics-Influencing Factors	K1-K3	3	1-3
	1.3 Ethical Dilemma in Business - Conflict of Interest	K1-K5	3	1-5

2	Ethics in Management and Marketing			
	2.1 Ethics in HRM-Recruitment, Selection, Training, Compensation, Cross Cultural Issue	KI-K3	5	1-3
	2.2 Ethics in Marketing-Product, Pricing, Marketing Practices	K1-K4	6	1-4
	2.3 Ethics in Advertising	K1-K5	5	1-5
3	Ethics in Finance			
	3.1 Ethics in Finance	K1-K3	5	1-3
	3.2 Ethics in Financial Service, Financial Markets and Securities	K1-K5	5	1-5
	3.3 Whistle Blowing and Whistle Blowers' Protection		5	
4	Workplace Ethics			
	4.1 Importance and Principles	K1-K3	3	1-3
	4.2 Ethical Behaviour in Workplace		3	
	4.3 Professionalism, Ethical Violations by Employees	K1-K5	3	1-5
	4.4 Benefits of Ethics in Workplace – Employee Commitment, Employee Attitude and Etiquette		3	
	4.5 Role of Ethical Culture and Relationships		3	
5	Environmental Ethics			
	5.1 Need, Managing Environmental Issues	K1-K4	3	1-4
	5.2 Improving Corporate Environmental Performance	K1-K5	2	1-5
	5.3 Environmental Audit	K1-K4	2	1-4
	5.4 Role of Corporate in Environmental Management		2	

BOOKS FOR STUDY

Nirmala K., Aruna Rani N., *Business Ethics and Corporate Governance*, Noida: Himalaya Publishing House, 2023

Fernando, A.C. *Corporate Governance – Principles, Policies & Practice*, Noida: Pearson, 2018

Joan R. Boatright. *Ethics and the Conduct of Business*, Noida: Pearson, 2011

BOOKS FOR REFERENCE

Andrew Crane, Dirk Matten, Sarah Glozer & Laura Spence, *Business Ethics*, New Delhi: Oxford University Press, 2020

Bob Tricker, *Corporate Governance (International Edition)*, New Delhi: Oxford University Press, 2020

Murthy C.S.V., *Business Ethics and Corporate Governance*, Noida: Himalaya Publishing House, 2019

Kshama V. Kaushik, *CSR in India - Steering Business Towards Social Change*, New Delhi: Lexis Nexis, 2017

WEB RESOURCES

www.ibscdc.org

www.exed.hbs.edu

www.hbr.org

JOURNALS

International Journal of Management Reviews

International Journal on Corporate Strategy and Social Responsibility

SSRN – E Journal

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VE/BE45												
IV	Course Title: BUSINESS ETHICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	3	3	1	2	-	-	-	3	3	1	-
CO 2	3	2	3	3	1	3	-	-	-	3	3	2	-
CO 3	3	3	3	3	2	3	2	-	2	3	3	3	3
CO 4	3	3	3	3	3	3	2	1	-	3	3	3	3
CO 5	3	3	3	3	3	3	3	-	-	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023–2024)

COMPUTER APPLICATION IN BUSINESS PRACTICAL

CODE: 23VB/VE/CB45

CREDITS: 5

L T P: 2 0 3

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the use of computer software in performing financial and statistical analysis
- To acquaint students with the techniques for financial statements analysis
- To provide a practical exposure on the various statistical methods and to arrive at decisions through systematic analysis and interpretation
- To educate on the effective and efficient application of various statistical tools associated with research in business fields
- To equip students to presentation the statistical data analysis using graphs, charts and PIVOT

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline various methods where computer software can be used to support existing businesses and strategies	K1
CO2	interpret financial data analysis for making decisions	K2
CO3	apply Excel packages in statistical analysis	K3
CO4	analyse financial statements using Excel	K4
CO5	asses the financial position of a business concern	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to MS Excel			
	1.1 Introduction to Excel	K1- K3	3	1-3
	1.2 Formatting Worksheets	K1-K5	3	1-5
	1.3 Presentation of Data in MS Excel using Graph, Tables and PIVOT table		4	

UNIT	CONTENT	CL	HRS	CO
2	Analysis using Excel	K1-K5		1-5
	2.1 Techniques of Financial Statement Analysis – Meaning and Importance		2	
	2.2 Comparative Statements		4	
	2.3 Common Size Statements		4	
	2.4 Trend Percentages		4	
3	Business Planning using Excel	K1-K5		1-5
	3.1 Preparation of Budgets – Production, Sales, Cash & Flexible		7	
	3.2 Cash Flow Analysis		8	
4	Business Evaluation Techniques using Excel	K1-K5		1-5
	4.1 Time Value of Money		3	
	4.2 Future and Present Value of Money		3	
	4.3 Future and Present Value of Annuity		4	
	4.4 Evaluation Techniques – Pay Back Period, NPV and IRR Methods		4	
5	Statistical Analysis using Excel	K1-K5		1-5
	5.1 Measures of Central Tendency & Dispersion – Mean, Median, Mode & Standard Deviation		3	
	5.2 Correlation Analysis – Correlation Co-efficient		3	
	5.3 Regression Analysis – Regression Equations		4	
	5.4 Time series analysis – Moving Averages, Least Squares		4	

BOOKS FOR STUDY

Deepak Jain, *Computer Applications in Business*, Kolkata: Lawpoint Publications, 2017

Bodhanwala, J. Ruzbeh, *Understanding and Analysing Balance Sheets using Excel Worksheet*, Eastern Economy Edition, USA: Prentice Hall of India Pvt. Ltd., 2015

BOOKS FOR REFERENCE

John, E. Harker, Dean W. Wichern, Arthur G. Reitsch, *Business Forecasting*, Eastern Economy Edition, USA Prentice Hall of India Pvt. Ltd., 2012

Frye Curtis, *Microsoft Excel 2016 Step by Step*, Microsoft Press, 2015

Bernd Held, *Excel 2016 Functions & Formulas*, BPB Publications, 2015

WEB SOURCES

<http://www.ecommerce-digest.com/online-academic-journals.html>

<http://www.openlearningworld.com/books/>

JOURNAL

Indian Journal of Computer Application

Journal of Modern Applied Statistical Methods

PATTERN OF ASSESSMENT - PRACTICALS

No Unit should be left out.

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1,K2 (10)	$2 \times 5 = 10$	1 K1 question 1 K2 question	1 K1 question 1 K2 question
B	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	2 K3 questions 2 K4 questions
C	K5 (20)	$1 \times 20 = 20$	1 K5 question	2 K5 questions
	Total	50	5	5

Other Components: Total Marks: 50

Assignment, quiz, open book test, group discussion, MCQ.

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A	K1,K2 (20)	$4 \times 5 = 20$	2 K1 questions 2 K2 questions	2 K1 questions 2 K2 questions
B	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	3 K3 questions 3 K4 questions
C	K5 (40)	$2 \times 20 = 40$	2 K5 questions	3 K5 questions
	Total	100	10	13

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VE/CB45												
IV	Course Title: COMPUTER APPLICATION IN BUSINESS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	3	1	3	-	-	1	1	2	1	1
CO 2	3	3	2	3	2	3	2	1	2	1	3	2	2
CO 3	3	3	2	3	2	3	-	-	2	2	3	-	2
CO 4	3	3	2	3	2	3	2	1	2	2	3	-	2
CO 5	3	3	2	3	2	3	2	1	2	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

TIME MANAGEMENT

CODE: 23VB/US/TM43

CREDITS: 3

LTP: 1 0 2

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To understand the importance of time management
- To familiarize students with the time management tools
- To educate students on the importance of value of time
- To impart knowledge on scheduling
- To introduce the concepts of time evaluation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and list key principles and concepts related to time management.	K1
CO2	summarize the benefits of setting goals and prioritizing tasks in time management	K2
CO3	utilize time management tools and techniques to organize daily and long-term tasks	K3
CO4	evaluate the effectiveness of various time management strategies in different contexts	K4
CO5	evaluate one's own time management skills and develop a plan for ongoing improvement	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K2	3	1-2
	1.1 Meaning, Need, Importance, Objectives and Concepts in Time Management			
	1.2 Pre-Requisites, Process and tools in Time Management	K1-K3	3	1-3
	1.3 Principles of Time Management	K1-K4	3	1-4
	1.4 Planning & Goal Setting, Managing Yourself, dealing with other People, Your Time, Getting Results	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
2	Time Mapping	K1-K2	2	1-2
	2.1 Employee Absence- Types, Overtime and Substitution			
	2.2 Delegation of work- Need and Significance of effective Delegation	K1-K4	2	1-4
	2.3 Maintaining Time Data 2.3.1 Methods, Annual, Monthly, Weekly Calendars and Shifting Plans	K1-K5	3	1-5
	2.4 Focus is on time and resources, Pre-analysis of performance		3	
	2.5 Drafting of action plan/ scheduling		3	
3	Time Evaluation	K1-K3	6	1-3
	3.1 Meaning and Importance of Time Evaluation			
	3.2 Complete Target Plan, Editing Actual Plan, Cross Application Time Sheet (CATS)	K1-K5	7	1-5

BOOKS FOR STUDY

Brian Tracy, *Time Management*. Amacom Publisher, 2014

BOOKS FOR REFERENCE

Vivek Bindra, *Effective Planning and Time Management*, Bloomsberg Publishing, 2018

Dr. Sudhir Dixit, *Time Management*, Manjul Publishing House, 2018

WEB SOURCES

<https://www.mindtools.com/arb6j5a/what-is-time-management>

<https://www.techtarget.com/whatis/definition/time-management>

<https://www.skillsyouneed.com/ps/time-management.html>

JOURNALS

Journal of Business Communication

International Journal of Management

Journal of Education for Business

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Question Number	Mark Distribution
A (All Questions to be answered)	K1	1 - 5	5 (5 x 1 = 5)
B (All Questions to be answered)	K2	6 - 10	5 (5 x 1 = 5)
C (Internal choice)	K3 / K3	11 or 12	5 (1 x 5 = 5)
	K4 / K4	13 or 14	5 (1 x 5 = 5)
D (Internal choice)	K5 / K5	15 or 16	5 (1 x 5 = 5)
Total			25

Other Components:

Total Marks: 25

Two components will be assessed for cognitive levels between K1 – K5:

Seminars / Quiz / Group discussion / Assignments / Class Presentation

No End Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/US/TM43												
IV	Course Title: TIME MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	3	3	-	-	-	-	-	3	-	-	1
CO 2	3	2	3	3	-	2	-	-	-	3	1	1	2
CO 3	3	2	3	3	2	3	1	1	-	3	1	1	2
CO 4	3	2	3	3	2	3	2	1	2	3	1	1	2
CO 5	3	2	3	3	2	3	2	1	1	3	1	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023–2024)

PRINCIPLES OF INSURANCE

CODE: 23VB/VM/PI56

CREDIT: 6

LTP: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce to the basic concepts of insurance
- To expose students to the risks covered under insurance
- To educate students on different types of insurance policies
- To provide an understanding on operation of insurance companies
- To understand customer behaviour during purchase of policy

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define terminologies in insurance	K1
CO2	summarize the principles of insurance	K2
CO3	develop insights on importance of insurance intermediaries	K3
CO4	compare the policies with legal aspects of insurance contract	K4
CO5	assess the claim procedures	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Insurance	K1-K2	4	1-2
	1.1 Nature and Importance of insurance			
	1.2 Evolution of Insurance	K1-K4	3	1-4
	1.3 Different Classes of Insurance			
	1.4 Recent Trends in Insurance Industry	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
2	Insurance Contract 2.1 Terms of an Insurance Contract	K1-K5	7	1-5
	2.2 Principles of Insurance - Insurable Interest, Indemnity, Subrogation, Contribution – Disclosure of all Relevant Information – Utmost Good Faith - the Relevance of Proximate Cause		13	
3	Insurance Terminology 3.1 Life Insurance – First Premium, Renewal – Mode – Limited Payment, Policies, Single Premium, Convertible, Days of Grace, Lapse, Paid Up Policy, Revival, Deferment Period, Nomination, Assignment, Bonus, With Profit, Participating, Non-Participating or Without Profit, Surrender Value	K1-K4	10	1-4
	3.2 Non-Life Insurance – Market Agreements, Cover Notes, Certificates of insurance, Open Policy, Floater, Excess, Franchise, Claims, Salvage, Coinsurance, Loss, Total Loss, Actual or Constructive Loss, Bonus, Valued Policy, Agreed Value, Full Value, First Loss, Increased Value, Arbitration	K1-K5	10	1-5
4	Insurance Market 4.1 Various Constituents of the Insurance Market	K1-K3	5	1-3
	4.2 Operations of Insurance Companies	K1-K5	5	1-5
	4.3 Operations of Intermediaries	K1-K2	5	1-2
	4.4 Specialist Insurance Companies – Insurance Specialists	K1-K3	5	1-3
5	The Insurance Customer 5.1 Understanding Insurance Customers	K1-K2	3	1-2
	5.2 Different Customer Needs	K1-K4	3	1-4
	5.3 Importance of Customers – Customer Satisfaction - Customer Behaviour at Purchase Point Customer Behaviour when Claims Occur - Importance of Ethical Behaviour	K1-K5	3	1-5

BOOKS FOR STUDY

E.Gordon, and Gupta P.K, *Banking and Insurance*. New Delhi: Himalaya Publishing House, 2017

Neeti Gupta and Abha Chopra, *Principles of Insurance*, New Delhi: Kalyani Publications, 2018

BOOKS FOR REFERENCE

Mishra, M, *Principles and Practices of Insurance*, New Delhi: Sultan Chand and Sons, 2018
P.K.Gupta, *Insurance and Risk Management*, Delhi: Himalaya Publishing House, 2022
Periasamy, *Principles & Practices of Insurance*, Delhi: Himalaya Publishing House, 2018
Manjula V & Marwa Mona, *Life & General Insurance*, New Delhi: Himalaya Publishing House, 2016

WEB SOURCES

www.irda.gov.in
www.iib.gov.in
www.irdaonline.org

JOURNALS

IRDAI Journal
Insurance Journal
Journal of Risk and Insurance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/PI56												
V	Course Title: Principles of Insurance												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	3	3	3	-	-	3	2	3	-	3	1
CO 2	3	2	3	3	3	-	3	3	2	3	-	3	2
CO 3	3	2	3	3	3	2	3	3	2	3	1	3	2
CO 4	3	3	3	3	3	2	3	3	2	3	2	3	3
CO 5	1	3	3	3	3	2	3	3	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

INSURANCE REGULATIONS

CODE: 23VB/VM/IR56

CREDITS: 6

LTP: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To educate on regulatory guidelines of IRDA
- To provide insights on importance and role of Insurance Intermediaries
- To familiarize the regulations for consumer protection in Insurance.
- To expose students to the procedure on registration of Insurance companies.
- To acquaint students with the role and concept of micro insurance

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the basic definitions and terminologies of insurance industry	K1
CO2	summarize the rules and regulations of IRDA regulations	K2
CO3	discuss provisions and strategies regulated under IRDA	K3
CO4	analyse the role of IRDA	K4
CO5	assess the scope and operations of IRDA regulations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Need for Regulation	K1-K2	1	1-2
	1.2 Structure of Insurance Regulation Authority	K1-K2	2	1-2
	1.3 Development and Growth of Life and Non-Life Insurance Industry	K1-K3	2	1-3
	1.4 Nationalisation of Insurance Industry		2	
	1.5 Privatisation of Insurance		2	

UNIT	CONTENT	CL	HRS	CO
2	Insurance Regulatory and Development Authority (IRDA) Act 1999	K1-K3	6	1-3
	2.1 Mission and Composition of IRDA	K1-K5	7	1-5
	2.2 Duties, Powers and Functions of IRDA		7	
3	IRDA Regulations on Registration and Licensing	K1-K3	6	1-3
3	3.1 Insurance Intermediaries – Meaning, Role and Growth	K1-K5	7	1-5
	3.2 Procedure for Registration of Insurance Companies 3.2.1 General and Capital Requirements 3.2.2 Renewal and Suspension of Registration 3.2.3 Cancellation of Registration		7	
	3.3 Provisions relating to Registration, Renewal, Revocation and Cancellation of license for Intermediaries		7	
4	IRDA Regulations on Micro Insurance:	K1-K3	5	1-3
	4.1 Micro Insurance: Concept and Origin	K1-K4	5	1-4
	4.2 Role and Importance of Micro Insurance in Rural and Social Sector		5	1-5
	4.3 Micro Insurance Agents – Life and Non-life Micro Insurers	K1-K5	5	1-5
5	4.4 Government Strategies for Micro-insurance on Social Protection		5	
	IRDA Regulation on Protection of Policy Holders:	K1-K3	3	1-3
	5.1 Life and General Insurance Policy – Regulations	K1-K5	3	1-5
	5.2 Grievance Redressal, Complaint Handling, Policy Holders Servicing		3	
	5.3 Claim Procedures for Life and General Insurance		3	

BOOKS FOR STUDY

M.N. Mishra, *Insurance Principles and Practice*, New Delhi: Sultan Chand and Company Ltd., 2016

Neeti Gupta, Abha Chopra, *Principles of Insurance*, New Delhi: Kalyani Publishers, 2018

BOOKS FOR REFERENCE

P.Periyasamy, *Principles and Practice of Insurance*, New Delhi: Himalaya Publishing, 2019

S.Arunajatesan, T.R. Viswanathan, *Risk management and Insurance*, New York: Macmillan Publishers, 2017

Myneni, S, *Law of Insurance*, Hyderabad: Asia Law House, 2023

S K Sarvaria, Appoorv Sarvaria, *Commentary on The Insurance Regulatory and Development Authority Act*, Gurgaon: LexisNexis, 2022

Naresh Mahipal, *An Introduction to Insurance Laws*, Prayagraj: Central law Publication, 2021

WEB SOURCES:

Governing Body of Insurance Council (GBIC) www.gbic.co.in

General Insurance Council www.gicouncil.in

Life Insurance Council www.lifeinscouncil.org

JOURNALS

IRDAI Journal

Insurance Journal

Journal of Risk and Insurance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/IR56												
V	Course Title: INSURANCE REGULATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	-	3	3	-	1	3	3	3	1	1	-
CO 2	3	3	1	3	3	1	3	3	2	3	3	2	1
CO 3	3	3	3	3	3	1	3	3	2	3	3	2	3
CO 4	2	3	2	3	3	1	3	3	2	3	3	2	3
CO 5	3	3	2	3	3	1	3	3	2	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

BUSINESS LAW

CODE: 23VB/VM/BL56

CREDITS: 6

LTP: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the basic concepts and provisions of business law
- To apply the principles of law relating to business
- To relate the IPR concepts and its benefits
- To provide an overview on duties and responsibilities of parties entering into business
- To provide the provisions of Sale of Goods Act for a business

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic definitions and terminologies in business law	K1
CO2	summarize on the legal regulations provided under the law	K2
CO3	make use of provisions and strategies framed under business law	K3
CO4	classify the various rules and contracts connected to activities of business	K4
CO5	Recommend the legal implications related to business	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Indian Contract Act 1.1 Indian Contract Act	K1-K2	1	1-2
	1.2 Nature and Elements of Contract		2	
	1.3 Classification of Contracts	K1-K3	2	1-3
	1.4 Contract Vs Agreement		2	

UNIT	CONTENT	CL	HRS	CO
2	Requirements of a valid contract	K1-K3	6	1-3
	2.1 Offer - Definition - Forms of Offer - Requirements of a Valid Offer, Acceptance – Meaning			
	2.2 Legal rules as to a Valid Acceptance - Consideration - Definition - Types - Essentials	K1-K5	7	1-5
	2.3 Capacity of Parties- Definition- Persons Competent to Contract - Free consent – Coercion - Undue Influence	K1-K4	3	1-4
	2.4 Fraud - Misrepresentation – Mistake - Legality of Object - Void agreements- Unlawful Agreements	K1-K5	7	1-5
3	Performance of Contract			
	3.1 Performance of Contracts - Actual Performance	K1-K3	6	1-3
	3.2 Attempted Performance - Tender	K1-K5	7	1-5
	3.3 Discharge of Contract - Modes of Discharge	K1-K4	3	1-4
	3.4 Breach of Contract - Remedies available for Breach of Contract	K1-K3	7	1-3
4	Sale of Goods Act 1930		3	
	4.1 Sale - Contract of Sale - Sale Vs Agreement to Sell	K1-K5		1-5
	4.2 Meaning of Goods - Conditions and Warranty – Caveat Emptor - Exceptions of Caveat Emptor		3	
	4.3 Buyer and Seller of Goods - Unpaid Seller – Definition - Rights of an Unpaid Seller		4	
5	Intellectual Property Rights	K1-K3	5	1-3
	5.1 Intellectual Property Law in India – Provisions relating to Patents, Trademarks and Copy Rights			
	5.2 Enforcement of Intellectual Property Rights	K1-K5	5	1-5
	5.3 Intellectual Property Rights in current scenario – Case Studies		5	

BOOKS FOR STUDY

N.D.Kapoor, *Business Law*, New Delhi Sultan Chand and Sons, 2022

Pillai N.P.N., Bhagavathy, *Legal Aspects of Business*, New Delhi: Sultan Chand and Sons, 2015

BOOKS FOR REFERENCE

Saravanel.P, Sumathi.S, *Business Law for Management*, Mumbai: Himalaya Publishing House, 2015

Bulchandani K.R., *Business Law for Management Volume I*, Mumbai: Himalaya Publishing House, 2022

Maheswari S.N., Maheswari S.K., *A Manual of Business Laws*, Mumbai: Himalaya Publishing House, 2020

Tulsian P.C., Bharat Tulsian, *Business Law*, New Delhi: Tata McGraw- Hill education, 2014

Kuchhal, M.C. *Business Law*, New Delhi: Vikas Publications, 2023

WEB SOURCES

www.lawctopus.com
 www.indialawworld.Co
 www.legalserviceindia.comw
 www.ipindia.nic.in

JOURNALS

Law Asia
 Indian Business Law Journal

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/BL56												
V	Course Title: BUSINESS LAW												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	3	3	3	-	-	3	1	2	-	-	3
CO 2	3	3	3	3	3	1	2	3	2	2	3	2	3
CO 3	1	3	3	3	3	1	2	3	3	3	3	3	3
CO 4	3	3	3	3	3	1	2	3	3	3	3	3	3
CO 5	3	3	3	3	3	1	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

INCOME TAX

CODE: 23VB/VM/IT56

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enlighten students with the provisions of the Income Tax
- To enable students to compute income under the different heads
- To equip students with deductions under various heads of income
- To acquaint students with the computation of taxable income and tax liability
- To familiarize students with the concept of filing of income tax returns

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the basic terminologies and concepts of tax	K1
CO2	comprehend the provisions related to direct taxes	K2
CO3	apply the taxation procedures for various heads of an individual	K3
CO4	calculate the taxable income of an individual	K4
CO5	assess the procedures for computing tax liability	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Meaning and Need for Taxation	K1-K2	2	1-2
	1.2 Tax Planning vs Tax Evasion	K1-K3	3	1-3
	1.3 Types of Tax- Direct Tax and Indirect Tax			
	1.4 Residential Status and Incidence of Tax	K1-K5	5	1-5
2	Income from Salaries and House Property		12	
	2.1 Salary - Basis of Charge – Allowances, Perquisites, Provident Fund and Computation of Salary Income (Simple problems)	K1-K5		1-5
	2.2 House Property - Basis of Charge- Computation of Self-Occupied and Let Out House, House Property Income (Simple problems)		8	

UNIT	CONTENT	CL	HRS	CO
3	Income from Business and Profession	K1-K5		1-5
	3.1 Income chargeable under the head		3	
	3.2 Disallowances		2	
	3.3 Presumptive Provision		4	
	3.4 Computation of Profits and Gains of Business and Profession		6	
4	Income from Capital Gains and Other Sources	K1-K5	8	1-5
	4.1 Capital Gains - Computation of Short Term and Long Term Capital Gain			
	4.2 Income from Other Sources – Casual and General Incomes		7	
5	Computation of Total Income and Tax Liability	K1-K5		1-5
	5.1 Set Off and Carry Forward Losses - Meaning		2	
	5.2 Clubbing of Income		3	
	5.3 Deductions		7	
	5.4 Assessment of Individual Income		3	
	5.5 Computation of Tax Liability		3	

BOOKS FOR STUDY

Balachandran, V. *Indirect Taxes*, Sultan Chand & Sons, New Delhi: 2023

Gaur, V.P. and D.B Narang, *Income Tax Law and Practice*, New Delhi: Kalyani, 2023

BOOKS FOR REFERENCE

Ahuja, Girish and Gupta Ravi, *Practical Approach to Income Tax*, 2023

Mehrothra, H.C. *Income Tax Law and Practice*, 2023

Sahithya Bhavan, Singhania, Vinod K, *Student's Guide to Income Tax*, Taxmann, 2023

WEB SOURCES

<https://incometaxindia.gov.in/Pages/default.aspx>

<https://incometaxindiaefiling.gov.in/>

<https://www.incometax.gov.in/iec/foportal/help/huf/how-to-file-tax-returns>

JOURNALS

Vision: Journal of Indian Taxation

Indian Journal of Tax Law

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions (2 theory and 1 problem)
B – Not Exceeding 150 words for theory	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions (1 theory and 2 problem)
C	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (only problems) Internal Choice 1 K4 questions (only problems) Internal Choice
D	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions (Only problems)
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Open Book test, MCQ, Short Answer Test, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A -Not Exceeding 50 words for theory	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions (2 Theory and 3 Problems)
B – Not Exceeding 150 words for theory	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions (one Theory and 5 Problems)
C	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Only Problems) Internal Choice 2K4 questions (Only Problems) Internal Choice
D	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions (Only Problems)
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/IT56												
V	Course Title: INCOME TAX												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	3	1	3	1	2	-	2	-
CO 2	3	3	2	3	3	3	2	3	3	2	3	3	1
CO 3	2	3	3	2	3	3	2	3	3	1	3	3	1
CO 4	2	3	2	1	3	3	2	3	3	1	3	3	1
CO 5	2	3	1	1	3	3	2	3	3	1	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 800 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from academic year 2023- 2024)

PRESENTATION SKILLS

CODE: 23VB/US/PS53

CREDITS: 3

L T P: 0 0 3

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To familiarize students with the need for effective presentation
- To acquaint students with different types of presentation
- To encourage students to prepare power point presentations with charts, tables, pictures and animations
- To enable students to adopt innovative and creative means of designing a presentation
- To design power point presentation according to the needs of business

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	communicate ideas and facts visually and verbally in a clear and organised manner	K1
CO2	summarize the need to deliver impressive presentation	K2
CO3	apply various presentation techniques in order to establish effective communication	K3
CO4	analyse style, tone and level of verbal communication to fit the audience and situation	K4
CO5	review the preparation required for an effective presentation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Presentation – Introduction			
	1.1 Presentation – Meaning, Elements and Principles of Effective presentation	K1-K4	3	1-4
	1.2 Types of Presentation	K1-K2	3	1-2
	1.3 Salient steps to Develop Presentations	K1-K5	3	1-5
	1.4 Causes of Ineffective Presentation	K1-K4	3	1-4
2	Designing a Presentation			
	2.1 Slide Design & Layout	K1-K5	4	1-5
	2.2 Inserting Pictures, Charts and Tables	K1-K3	4	1-3
	2.3 Setting up a Presentation – Custom Animation	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
3	Skills for Presentation 3.1 Meaning of Presentation Skills and Ways to Improve the Presentation Skills	K1-K4	4	1-4
	3.2 Thumb rule in making Presentation 3.2.1 10-20-30 Rule 3.2.2 6X6 Rule		6	
	3.3 Features and Techniques of Good Presentation	K1-K5	7	1-5

BOOKS FOR STUDY

Ishita Bhowan, *Improve Your Presentation Skills*, New Delhi: V & S Publisher, 2019
 Shailesh Patel, *Handbook on Public Speaking, Presentation & Communication Skills*, Chennai: 2020

BOOKS FOR REFERENCE

Shelly Fishel, *Powerpoint*, Bookboon Publication, 2016
 Garr Reynolds, *Presentation Zen*, New Riders Publication, 2015

WEB SOURCES

<https://www.skillsyouneed.com/presentation-skills.html>
<https://www.indeed.com/career-advice/career-development/presentation-skills>

JOURNALS

Journal of Business Communication
 International Journal of Management
 Journal of Education for Business

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 25 Duration: 60 minutes

Section	Cognitive Level	Question Number	Mark Distribution
A (All Questions to be answered)	K1	1 – 5	5 (5 x 1 = 5)
B (All Questions to be answered)	K2	6 – 10	5 (5 x 1 = 5)
C (Internal choice)	K3 / K3	11 or 12	5 (1 x 5 = 5)
	K4 / K4	13 or 14	5 (1 x 5 = 5)
D (Internal choice)	K5 / K5	15 or 16	5 (1 x 5 = 5)
Total			25

Other Components: Total Marks: 25

Two components will be assessed for cognitive levels between K1 – K5:

Seminars / Quiz / Group discussion / Assignments / Class Presentation

No End Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/US/PS53												
V	Course Title: PRESENTATION SKILLS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	1	3	3	3	1	1	1	1	2	1	-
CO 2	1	1	1	3	3	3	-	-	1	-	1	-	-
CO 3	1	3	1	3	3	3	1	-	-	2	3	1	-
CO 4	1	3	1	3	3	3	-	-	-	2	3	2	2
CO 5	1	3	1	3	3	3	-	-	-	2	3	-	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023–2024)

ENTREPRENEURIAL DEVELOPMENT

CODE: 23VB/VM/ED66

CREDIT: 6

LTP: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide comprehensive knowledge on various aspects related to entrepreneurial development
- To familiarize students with practical aspects of establishing a business
- To expose students to various sources of pooling funds for setting up business ventures
- To inculcate the spirit of entrepreneurship for creating new business opportunities
- To encourage preparation of project proposals

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline the concept of entrepreneurship in the context of Indian economic scenario	K1
CO2	compare an individual's capabilities and strength towards entrepreneurial orientation	K2
CO3	identify the available sources of finance for supporting entrepreneurs	K3
CO4	analyse project feasibility to initiate new venture	K4
CO5	evaluate the challenges faced by entrepreneurs individually and socially	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K2	5	1-2
	1.1 Meaning, Definition, Characteristics, Functions and Types of Entrepreneur			
	1.2 Role of Entrepreneurship in Service Institutions	K1-K3	2	1-3
	1.3 Factors Influencing Entrepreneurship development			
	1.4 Factors impacting Emergence of Entrepreneurship – Barriers	K1-K5	4	1-5

UNIT	CONTENT	CL	HRS	CO
2	Launching a New Venture			
	2.1 Opportunity Identification and Selection	KI-K3	7	1-3
	2.2 Idea Generation and Screening of Business Idea	K1-K5	8	1-5
	2.1.1 Sources of Business idea – Internal and External			
	2.1.2 Evaluation of Business Idea			
	2.1.3 Selection of Business Idea			
3	Project Formulation			
	3.1 Project Identification and Classification	K1-K5	4	1-5
	3.2 Project Formulation – Meaning and Stages		4	
	3.3 Project Feasibility		4	
	3.4 Preparing Model Project Report for Starting a New Venture		4	
4	Entrepreneurial Finance			
	4.1 Financial Planning – Meaning and Need	K1-K4	2	1-4
	4.2 Sources of finance – Internal and External		5	
	4.3 Working Capital Management - Sources and Factors Determining Working Capital		5	
	4.4 Role of Banking and Non-Banking Institutions assisting Entrepreneurs	K1-K5	4	1-5
	4.5 Government Assistance through Subsidies and Incentives		5	
5	Incentives and Subsidies			
	5.1 Role of Financial Institutions in the Growth of Entrepreneur	K1-K4	5	1-4
	5.2 Promotional Schemes Offered by the State and Central Government		4	
	5.3 Challenges and Issues in the Development of Entrepreneurs in India	K1-K5	6	1-5

BOOKS FOR STUDY

S.S.Khanka, *Entrepreneurial Development*, New Delhi: Sultan Chand and Co, 2015

Desai, V. *Dynamics of Entrepreneurship Development and Management*, New Delhi: Himalaya publishers, 2015

BOOKS FOR REFERENCE

Jayashree Suresh, *Entrepreneurial Development*, Chennai: Margham Publications, 2015

C.B. Gupta and N. P. Srinivasan, *Entrepreneurial Development*, New Delhi: Sultan Chand and Sons, 2013

Robert D. H and Peters, *M.P. Entrepreneurship*. New Delhi: Tata McGraw Hill, 2018

Gopalakrishnan, P., *Textbook of Project Management*, New Delhi: MacMillan, 2014

WEB RESOURCES

<https://ncert.nic.in/ncerts/l/lebs213.pdf>

<https://leverageedu.com/blog/entrepreneurship-development/#:~:text=What%20is%20Entrepreneurship%20Development%3F,the%20risks%20associated%20with%20it.>

<https://msme.gov.in/entrepreneurship-and-skill-development-programs>

JOURNALS

International Journal of entrepreneurship development and Small Business Journal of entrepreneurship education

Journal of Business venturing

International Journal of Project Management

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/ED66												
VI	Course Title: ENTREPRENEURIAL DEVELOPMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	3	2	2	3	3	3	2
CO 2	3	3	2	3	3	2	2	-	3	3	3	3	3
CO 3	3	3	2	3	3	3	-	2	3	3	3	3	3
CO 4	3	3	2	3	3	3	1	-	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

HEALTH INSURANCE

CODE: 23VB/VM/HI66

CREDITS: 6

L T P: 303

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enlighten students on the growth of health insurance in India
- To understand health care system in India
- To provide insights on various products and services of health insurance
- To expose students to the current trends of health Insurance in India
- To familiarize students with statutory regulations relating to health care

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basic terminology of health insurance and health care systems in India.	K1
CO2	explain the process of underwriting and standards of health insurance	K2
CO3	identify the roles and functions of IRDA in regulating the health insurance	K3
CO4	examine the challenges faced by the policyholders in health care	K4
CO5	assess the ethical considerations related to healthcare access and insurance coverage.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Health Insurance			
	1.1 Health Insurance-Evolution and Growth of Health Insurance in India	K1-K2	2	1-2
	1.2 Understanding the Health Care System in India – Constitutional Provisions in Areas of Public Health Care, Government Health Departments including District and Local Levels	K1-K3	5	1-3
	1.3 Infrastructure of the Health Care System: Public and Private Health Centers and Health Care Providers	K1-K5	2	1-5
2	Health Care Financing in India and Health Insurance Products in India			
	2.1 Financing of Health Care in India - National Rural Health Mission, Challenges of Access to Health Care and Service Quality	K1-K5	5	1-5

UNIT	CONTENT	CL	HRS	CO
	2.2 Health Insurance Mechanisms and Financial Protection	K1-K3	7	1-3
	2.3 Health Insurance Products in India – Basic Terms in Health Insurance	K1-K4	4	1-4
	2.4 Investment Products in Health Insurance and Health Savings Components - Products for Senior Citizens, Micro-Insurance Products, Other Specialized Products	K1-K5	4	1-5
	Health Insurance Underwriting 3.1 Health Insurance Underwriting, Basic Principles of Underwriting	K1-K3	4	1-3
3	3.2 Documents used for Underwriting	K1-K4	4	1-4
	3.3 Underwriting Process - Methods of Underwriting	K1-K5	4	1-5
	3.4 Types of Underwriting Decisions	K1-K2	4	1-2
	3.5 Group Health Insurance - General and Standard Exclusions	K1-K4	4	1-4
	Introduction to Risk Treatment and Risk Response Regulatory and Legal Aspects of Health Insurance 4.1 Principles and Practice of Health Insurance Regulations, Need for Health Insurance, Various Kinds of Risks in Health	K1-K2	5	1-2
4	4.2 Licensing and Registration, Types of Regulations, Enforcement of Regulations Monitoring Activity by Regulators, Prevention of Mis-Selling	K1-K5	5	1-5
	4.3 Health Insurance Regulations in India: Policy holder's Regulation and Grievance Redressal System, Health Insurance for Rural and Informal Sector Workers	K1-K4	5	1-4
	4.4 Role of IRDA in Initiatives for Standardization - Pre- Existing Diseases (PED's) - Renewability of Health Insurance Policies.	K1-K5	5	1-5
	Customer Service in Health Insurance and Re Insurance 5.1 Consumer Protection and Policy –Holder's Protection	K1-K4	2	1-4
5	5.2 Claim Servicing, Types of Cashless Claims, Grievance Redressal, Survey on Grievance Redressal	K1-K3	2	1-3
	5.3 Classification of Frauds - Health Insurance Frauds Vs General Insurance Frauds. Types of Frauds by the Consumers, Stages of Insurance Frauds	K1-K4	2	1-4
	5.4 Definition of Reinsurance, Utility of Reinsurance, Products Supported by Reinsurers, White Labelling, Social Reinsurance	K1-K5	3	1-5

BOOKS FOR STUDY

Gupta, R. P, *Health Care Reforms in India*. New Delhi: Elsevier, 2016.

K, S. R, *Do we care? India's Health System*. Delhi: Oxford University Press, 2017.

BOOKS FOR REFERENCE

Khan, M. S, *Reinsurance for Beginners*. Chennai: Create Space Independent Publishers, 2014
L.P.Gupta, *Health Insurance for Rich and Poor in India*. Delhi: Gupta Publishers, 2017
Mishra, K, *Fundamentals of Insurance Theory and Application*. Delhi: PHI Learning P. Ltd, 2016.
P.C.James, *Understanding Insurance of Health*. Bangalore: PCJ Value Media Pvt. Ltd, 2017
Patukale, K, *Mediclaime and Health Insurance*. Delhi: Prabhat Prakashan, 2020

WEB RESOURCES

IRDA Consumer Education Website www.policyholder.gov.in
Insurance Information Bureau (IIB) www.iib.gov.in
IRDA Agency Licensing Portal www.irdaonline.org

JOURNAL

International Journal of Health Care Policy
IRDAI Journal
Journal of Risk and Insurance

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A – Not exceeding 50 words	K1 (6)	$3 \times 2 = 6$	3 K1 questions	3 K1 questions
B – Not exceeding 150 words	K2 (10)	$2 \times 5 = 10$	2 K2 questions	3 K2 questions
C – Not exceeding 500 words	K3,K4 (20)	$2 \times 10 = 20$	1 K3 question 1 K4 question	1 K3 questions (Internal Choice) 1 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5(14)	$1 \times 14 = 14$	1 K5 question	2 K5 questions
	Total	50	8	10

Other Components: Total Marks: 50

Assignment, Seminar, Quiz, Group Discussion, Video Making, Case Study

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - Not exceeding 50 words	K1 (10)	5 x 2 = 10	5 K1 questions	5 K1 questions
B - Not exceeding 150 words	K2 (20)	4 x 5 = 20	4 K2 questions	6 K2 questions
C - Not exceeding 500 words	K3, K4 (40)	4 x 10 = 40	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
D - Not exceeding 1000 words	K5 (30)	2 x 15 = 30	2 K5 questions	3 K5 questions
	Total	100	15	18

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/HI66												
VI	Course Title: HEALTH INSURANCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	3	3	1	-	1	3	2	-	1	1
CO 2	3	3	-	3	2	-	1	-	2	-	1	-	2
CO 3	3	3	1	3	3	2	2	2	2	1	1	2	2
CO 4	3	3	1	3	2	-	-	2	-	2	2	3	1
CO 5	3	3	-	3	2	-	3	-	1	2	2	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

HUMAN RESOURCE MANAGEMENT

CODE: 23VB/VM/HR66

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To familiarize students on roles and responsibilities of HR Managers and the challenges Faced
- To acquaint students with strengths and weaknesses of different performance management system
- To enable students with concepts and factors of human resource planning, recruitment and selection
- To equip students with processes and mechanism of managing Human Resources.
- To provide comprehensive knowledge on the Recent Trends in Human Resource Management

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the principles and objectives of human resource management.	K1
CO2	explain the importance of HRM in supporting organizational goals and employee well-being	K2
CO3	identify the effectiveness of Training methods of employees and managers and the techniques involved	K3
CO4	compare various recruitment strategies in terms of their potential impact on organizational diversity and talent acquisition.	K4
CO5	evaluate the effectiveness of different performance appraisal methods.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction	K1-K2	2 3	1-2
	1.1 Scope and Objectives of Human Resource Management			
	1.2 Significance and Functions of Human Resource Management	K1-K4	2	1-4
	1.3 Emerging Challenges of Human Resource Management- Workforce Diversity, Downsizing, Work Life Balance			
	1.4 Recent Trends in Human Resource Management	K1-K5	2	1-5

UNIT	CONTENT	CL	HRS	CO
2	Acquisition of Human Resources 2.1 Objectives, Characteristics and Process of HR Planning,	K1-K5	12	1-5
	2.2 Job Analysis, Job Description, Job Specification			
	2.3 Recruitment – Concept, Sources	K1-K4	4	1-4
	2.4 Selection Procedure, Testing, Placement and Induction	K1-K5	4	1-5
3	Training and Development 3.1 Concept and Importance, Identifying Training and Development Needs, Designing Training Programme	K1-K3	5	1-3
	3.2 Training and Development Methods	K1-K4	5	1-4
	3.3 Evaluating Training Effectiveness	K1-K5	10	1-5
4	Performance Appraisal 4.1 Nature and Importance of Performance Appraisal	K1-K2	6	1-2
	4.2 Process and Methods of Performance Appraisal	K1-K5	6	1-5
	4.3 Performance Management, Performance Counselling	K1-K4	8	1-4
5	Compensation and Maintenance 5.1 Compensation – Factors, Types – Monetary and Non-Monetary 5.1.1 Wage and Salary Compensation 5.1.2 Incentives and Benefits	K1-K4	4	1-4
	5.2 Employees Welfare– Health, Safety and Social Security	K1-K3	2	1-3
	5.3 Grievance Handling and Redressal – Vigil Mechanism and Prevention of Sexual Harassments	K1-K4	3	1-4

BOOKS FOR STUDY

Aswathappa K. *Human Resource Management, Text and Cases*, New Delhi: Tata McGraw Hill, 2023

Gupta, C.B. *Human Resource management. Text and Cases*, New Delhi: Sultan Chand, 2020

BOOKS FOR REFERENCE

Flippo V. Edwin. *Personnel Management*. New Delhi: Tata McGraw Hill, 2017

Mamoria, C.B. *Personnel Management*. Mumbai: Himalaya Publiation, 2011

Prasad, L.M. *Human Resource management*. New Delhi: Sultan Chand, 2021

WEB SOURCES

<https://nptel.ac.in/downloads/110105031/>

https://www.tutorialspoint.com/international_finance/international_finance_introduction.htm

<http://www.businessmanagementideas.com/financial-management/international-finance/significanceof-international-finance/17285>

JOURNALS

Journal of Human Resource Management

The International Journal of Human Resource Management

South Asian Journal of Human Resource Management

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
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C - Not exceeding 500 words	K3, K4 (40)	$4 \times 10 = 40$	2 K3 questions 2 K4 questions	2 K3 questions (Internal Choice) 2 K4 questions (Internal Choice)
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**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VB/VM/HR66												
VI	Course Title: HUMAN RESOURCE MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	1	1	-	3	3	2	2	2
CO 2	3	3	2	3	3	2	2	2	2	3	3	3	3
CO 3	3	3	1	3	3	3	2	-	2	3	3	3	3
CO 4	3	3	2	3	3	3	3	2	1	3	3	3	3
CO 5	3	3	-	3	3	3	3	-	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc. DEGREE: BANKING, FINANCIAL SERVICES AND INSURANCE

SYLLABUS

(Effective from the academic year 2023 – 2024)

PROJECT

CODE: 23VB/VM/PR615

CREDITS: 15

Project should be the independent work of the student. Each student will choose a topic of their interest and the student will be assigned to a supervisor.

The student can use Quantitative or Qualitative/Descriptive or both methods.

- **Page Limit:**

The Dissertation report should be submitted in the prescribed format having a maximum of 100 pages, typed in font Times New Roman -size 12, with 1½ line spacing on A4 Size paper.

- **Contents of the Report:**

- Contents Page
 - The report copy will include Certificate of the Supervisor, Declaration, and Acknowledgement
 - Four or five chapters
 - Presentation of the Report – format
 - Chapter 1 - Introduction - to include background of the study, objectives, Methodology, limitation of the study and chapter scheme
 - Chapter 2 – Review of literature
 - Chapter 3 – Theoretical aspects of the study
 - Chapter 4 – Data analysis
 - Chapter 5 – Findings/Suggestion and conclusion
- At the end of the project 'Bibliography' must be given in alphabetical/chronological order and necessary appendix may be added.

- **Submission:**

Each student may prepare two soft bound copies of the report, one for her and one copy to be submitted to the Head of the Department duly signed by the supervisor, on the scheduled date.

- **Guidelines for Evaluation:**

There will be double valuation for the Dissertation by the supervisor and an External Examiner. The student will appear for viva -voce before a panel comprising External Examiner, Supervisor and Head of the Department.

PATTERN OF ASSESSMENT

Rubrics for Evaluation	Marks	Cognitive Level
Documentation	10	K1
Formulating topic statement	15	K2
Explaining the conceptual framework	15	K3
Review of literature	15	K4
Research analysis, Findings & Conclusion	25	K5/K6
Viva	20	
Total	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VB/US/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religious in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi- Canticale of creatures Seeking the Divine through meditation, prayer and worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation
- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic

- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion’s vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one’s past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.Sc. DEGREE
BRANCH I MATHEMATICS
(CHOICE BASED CREDIT SYSTEM)
SHIFT II

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086

DEPARTMENT OF MATHEMATICS

PROGRAMME DESCRIPTION

The B.Sc. Mathematics Degree programme lays equal emphasis on motivating and training students towards higher education in the discipline and employability. While the courses cover a wide spectrum of skills for specific corporate and creative sectors, the logic inbuilt in the courses helps in improved analytical skills. Computational techniques introduced through the courses in the first and second years trains students to solve problems with creative and critical thinking. The theoretical inputs to develop interest in Mathematical Communication.

VISION OF THE DEPARTMENT

- To inculcate in the students logical and analytical thinking, to increase their intellectual curiosity enabling them to become lifelong learners
- To continue to grow in their chosen professions and to function as dynamic citizens
- To establish an international reputation as a centre for excellence in teaching and research of Mathematics

MISSION OF THE DEPARTMENT

- To develop in students logical thinking, analytical reasoning and problem solving skills
- To equip the students with more technical and technological skills and scientific computing techniques based on Mathematical methods to meet the growing demand in the industrial, marketing, communication sectors, etc.
- To offer at all levels a wide array of mathematical approaches in a scientific computing environment to cater to the needs of teaching, research & industrial applications
- To equip them with enhanced employable skills
- To widen their horizon of knowledge with a focus on research

STELLA MARIS COLLEGE (AUTONOMOUS), CEHNNAI – 600 086

DEPARTMENT OF MATHEMATICS

PROGRAMME SPECIFIC OUTCOMES (PSO)

On successful completion of the B.Sc. Mathematics Programme, the students will be able to

PSO1	acquire sound knowledge and understanding in the varied fields of Mathematics and in its allied field of Statistics enabling them to think in a critical manner
PSO2	develop the rational and logical reasoning of students and instill in them a range of generic skills helpful for employment, internships and social activities
PSO3	communicate mathematical ideas, solutions, and proofs clearly and effectively through oral and written presentations
PSO4	impart students with sufficient knowledge and skills enabling them to undertake further studies in Mathematics and its allied areas on multiple disciplines concerned with Mathematics
PSO5	employ their knowledge, problem solving skills and analytical thinking to translate information into mathematical form and to use appropriate mathematical formulae, modeling techniques to process the information and draw relevant conclusions

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Sc. Mathematics 2023 - 2024 SHIFT II														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	3	4	3	4	4	5	4	5	3	4	4	5	21	27
Major Core	4	5	4	5	4	5	3	4	4	5	5	6	24	30
									5	5	5	6	10	11
									5	6			5	6
Allied Core	3	3	3	3	5	5	5	5					16	16
	2	3	2	3									4	6
	Offered by PH dept.													
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	112
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1				2				2	0	5
Mentoring				1				1				1	0	3
											Total		4	10
Total	26	30	24	30	26	30	23	30	26	30	24	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT II

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23MT/MC/DC14	Differential Calculus	4	4	1	0	3	50	50	100	
23MT/MC/AT13	Algebra and Trigonometry	3	3	1	0	3	50	50	100	
23MT/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
23MT/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education									
Allied Core offered to students of Mathematics-Shift II by Dept. of Physics										
23PH/AC/PM13	Physics for Mathematics I	3	3	0	0	3	50	50	100	
23PH/AC/P112	Physics Practical I	2	0	0	3	3	50	50	100	
SEMESTER-II										
23MT/MC/IC23	Integral Calculus	3	3	1	0	3	50	50	100	
23MT/MC/AG24	Analytical Geometry	4	4	1	0	3	50	50	100	
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100	
	General Elective I / Basic Tamil I									
Allied Core offered to students of Mathematics-Shift II by Dept. of Physics										
23PH/AC/PM23	Physics for Mathematics II	3	3	0	0	3	50	50	100	
23PH/AC/P222	Physics Practical II	2	0	0	3	3	50	50	100	
SEMESTER-III										
23MT/MC/EG34	Elements of Graph Theory	4	4	1	0	3	50	50	100	
23MT/MC/DE34	Differential Equations	4	4	1	0	3	50	50	100	
23MT/AC/ST35	Mathematical Statistics I	5	5	0	0	3	50	50	100	
CD / ET / SC	Value Education									
	General Elective II / Basic Tamil II									
Allied Core offered to students of Commerce-Shift II(A&F) by Dept. of Mathematics										
23MT/AC/MT35	Mathematics for Commerce	5	5	0	0	3	50	50	100	
Allied Core offered to students of Computer Science by Dept. of Mathematics										
23MT/AC/MS35	Mathematics for Computer Science I	5	5	0	0	3	50	50	100	
23MT/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
SEMESTER-IV										
23MT/MC/SS44	Sequences and Series	4	4	1	0	3	50	50	100	
23MT/MC/DM43	Discrete Mathematics	3	3	1	0	3	50	50	100	
23MT/AC/ST45	Mathematical Statistics II	5	5	0	0	3	50	50	100	
	Major Elective I									
Allied Core offered to students of Commerce-Shift II(Gen) by Dept. of Mathematics										
23MT/AC/MT45	Mathematics for Commerce	5	5	0	0	3	50	50	100	
Allied Core offered to students of Computer Science by Dept. of Mathematics										
23MT/AC/MS45	Mathematics for Computer Science II	5	5	0	0	3	50	50	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT II

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-V									
23MT/MC/VA53	Vector Analysis and Applications	3	3	1	0	3	50	50	100
23MT/MC/AS55	Algebraic Structures	5	5	1	0	3	50	50	100
23MT/MC/RA55	Principles of Real Analysis	5	5	0	0	3	50	50	100
23MT/MC/IT54	Integral Transforms	4	4	1	0	3	50	50	100
	General Elective III								
	SAP / SL								
Interdisciplinary Core (MT and CS) to Students of Mathematics									
23ID/IC/MS55	Mathematics through Scientific Software	5	1	0	5	3	50	50	100
SEMESTER-VI									
23MT/MC/VL64	Vector Spaces and Linear Transformations	4	4	1	0	3	50	50	100
23MT/MC/CA65	Principles of Complex Analysis	5	5	1	0	3	50	50	100
23MT/MC/PM65	Principles of Mechanics	5	5	1	0	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23MT/ME/OR45	Operations Research	5	5	0	0	3	50	50	100
23MT/ME/PR45	Project	5	1	5	0	-	25	75	100
23MT/ME/ES45	Elements of Space Science	5	5	0	0	3	50	50	100
23MT/ME/NM45	Numerical Methods with Programs in C++	5	4	0	2	3	50	50	100
23MT/ME/CP45	Programming in C++	5	2	0	3	3	50	50	100
General Electives									
23MT/GE/WM22	The Fascinating World of Mathematics	2	2	0	0	-	50	-	100
23MT/GE/CW22	Celestial Wonders	2	2	0	0	-	50	-	100
23MT/GE/AM22	Automata	2	2	0	0	-	50	-	100
23MT/GE/BM22	Basic Mathematics	2	2	0	0	-	50	-	100
23MT/GE/RT22	Resource Management Techniques	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23MT/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23MT/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23MT/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23MT/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23MT/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23MT/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23MT/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23MT/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23MT/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Elective Course									
23MT/UI/CO23	Combinatorics	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE : BRANCH I-MATHEMATICS - SHIFT II

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

DIFFERENTIAL CALCULUS

CODE: 23MT/MC/DC14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the concepts of differential calculus in depth
- To access the various methods to determine the radius of curvature, evolutes and envelopes of curves
- To discover the extreme values of differentiable functions and comprehend the implications of higher derivatives
- To interpret the concept of derivatives and their applications geometrically
- To analyze the behavior of various curves

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	KL
CO1	define and recall the basic concepts of differential calculus	K1
CO2	interpret various techniques in finding derivatives	K2
CO3	identify appropriate methods to find the solution of problems on differential calculus	K3
CO4	analyze and examine the results of calculus through illustrations with examples.	K4
CO5	evaluate higher order derivatives and determine the properties of well-known curves	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	KL	Hrs.	CO
1	Successive Differentiation 1.1 The nth derivatives of some special functions 1.2 The nth derivatives of rational algebraic functions 1.3 Leibnitz's Theorem for the nth derivative of the product of two functions	K1-K5	12	1-5

UNIT	CONTENT	KL	Hrs.	CO
2	Curvature 2.1 Formulae for radius of curvature 2.2 A theorem on curvature 2.3 Curvature at the origin 2.4 Chord of curvature through the origin (pole) 2.5 Centre of curvature 2.6 Property of the centre of curvature 2.7 Evolute and Involute 2.8 Properties of the evolute	K1-K5	13	1-5
3	Envelopes 3.1 Definition of envelope 3.2 Envelope of straight lines 3.3 Envelope of the curves 3.4 Envelope of a special family 3.5 Envelope of two-parameter family	K1-K5	14	1-5
4	Extrema of functions of two variables 4.1 Extrema with two variables 4.2 Necessary conditions for maximum and minimum of extrema with two variables 4.3 Determination of maxima and minima of extrema with two variables 4.4 Lagrange's method of undetermined multipliers	K1-K5	13	1-5
5	Characteristics of some special curves 5.1 Cycloid 5.2 Catenary 5.3 Evolutes of parabola and ellipse 5.4 Logarithmic (or Equiangular) spiral 5.5 Spiral of Archimedes 5.6 Witch of Agnesi 5.7 Cardioid 5.8 Limacon 5.9 Lemniscate Singular Points 5.10 Double Points 5.11 Classification of Double Points 5.12 Conditions for existence of double points on an algebraic curve	K1-K5	13	1-5

BOOK FOR STUDY

Das, B.C., and B.N. Mukherjee. *Differential Calculus*. 52nd ed., Kolkata, U.N. Dhur and Sons Pvt. Ltd., 2012.

Chapter 8: 8.1- 8.5, 8.7 and 8.8

Chapter 13: 13.1-13.6

Chapter 15: 15.1 – 15.12

Chapter 17: 17.1-17.9

Chapter 20: 20.2, 20.3, 20.7, 20.13 - 20.18

Chapter 21: 21.1, 21.2, 21.6

BOOKS FOR REFERENCE

Chaubey, G.C., et al. *A Textbook of Advanced Calculus*. New Delhi, Wisdom, 2012.

Courant, R., and Fritz John. *Introduction to Calculus and Analysis - Volume One*. New York, Springer-Verlag, 2000.

Ghosh, R.K., and K.C. Maity. *Differential Calculus*. Kolkata, New Central Book Agency, 2001.

Hildebrand, F.B. *Advanced Calculus for Applications*. London, Prentice-Hall, Inc., 1962.

Mendelson, Elliot. *Calculus. Schaum's Solved Problem Series*. New Delhi, Tata McGraw-Hill Publishing Company Limited, 2004.

Narayanan, S., and Manicavachagam Pillai, T.K. *Calculus Volume-I*. Chennai, Viswanathan S., 2000.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/DC14												
	Course Title: DIFFERENTIAL CALCULUS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ALGEBRA AND TRIGONOMETRY

CODE: 23MT/MC/AT13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To impart knowledge of solving algebraic, transcendental and trigonometric equations
- To gain understanding of the different expansions of circular functions and relation between circular and hyperbolic functions
- To identify diagonalizable matrices, apply Cayley Hamilton theorem in solving higher order matrix equations and to compute inverses
- Use the concepts of trigonometry to solve applications
- Using the various series expansions to compute the sum of infinite series and to find limits

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the fundamental notions of Algebra, Trigonometry and the various series expansions	K1
CO2	interpret the acquired knowledge and use it for expressing algebraic equations, categorizing trigonometric problems and to estimate the roots of the equations	K2
CO3	apply the concepts of equations, series categorization and the relation between trigonometric functions to solve relevant problems	K3
CO4	analyze the types of Eigenvectors and its applications, to estimate the sum of infinite series and to illustrate the occurrence of roots and approximation of limits	K4
CO5	evaluate higher order equations to predict their roots and to experiment on similar matrices for the diagonalization process, validate the trigonometric formulas using suitable examples	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Theory of Equations 1.1 Relations between the Roots and Coefficients of Equations involving Cubic and Higher Order 1.2 Symmetric Function of Roots 1.3 Transformation of Equations 1.4 Increase or Decrease the Roots of a Given Equation by a Given Quantity 1.5 Removal of Terms	K1- K5	11	CO1-5
2	Series Expansions 2.1 Exponential Series 2.2 Logarithmic Series 2.3 Application of Exponential and Logarithmic Series	K1- K5	12	CO1-5
3	Properties of Matrices 3.1 Eigenvalues and Eigenvectors 3.2 Cayley - Hamilton Theorem 3.3 Similar Matrices 3.4 Diagonalization of a Matrix	K1- K5	9	CO1-5
4	Trigonometry - I 4.1 Expansions of $\cos n\theta$, $\sin n\theta$ and $\tan n\theta$ 4.2 Expansions of $\cos^n \theta$ and $\sin^n \theta$ in a Series of Sines and Cosines of Multiples of θ . 4.3 Expansions of $\cos \theta$ and $\sin \theta$ in Powers of θ	K1- K5	10	CO1-5
5	Trigonometry - II 5.1 Euler's Formula for $e^{i\theta}$ 5.2 Hyperbolic Functions 5.3 Relations between Circular and Hyperbolic Functions 5.4 Inverse Hyperbolic Functions in Terms of Logarithmic Functions	K1- K5	10	CO1-5

BOOKS FOR STUDY

Manicavachagam, Pillay T.K., et al. *Algebra–Vol I*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Chapter 4 Sections 2, 3, 5-7, 9, 11

Chapter 6 Sections 11,12, 15 (15.1,15.2 only), 17-19

Manicavachagam Pillay T.K., et al. *Algebra–Vol. II*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2006.

Chapter 2 Section 16

Narayanan. S, and T.K.Manicavachagam Pillay. *Trigonometry*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., 2007.

Chapter 3 Section 1-5 (excluding formation of equations)

Chapter 4 Section 1-2.3

BOOKS FOR REFERENCE

Kishan, Hari. *Trigonometry*. New Delhi: Atlantic Printers and Publishers Pvt., Ltd., 2005.

Veerarajan, T. *Trigonometry, Algebra and Calculus*. New Delhi: Tata McGraw Hill Education, 2003.

Venkataraman M.K., and Manorama Sridhar, *Classical Algebra and Trigonometry*. Chennai: Sivasankar, 2001.

Singaravelu, A. *Algebra & Trigonometry – I*, Chennai: A.R. Publications, 2015.

WEB RESOURCES

<http://www.edurite.com/kbase/application-of-matrices-in-real-life>

<http://www.decodedscience.com/practical-uses-matrix-mathematics/40494>

<http://malini-math.blogspot.in/2011/08/applications-of-trigonometry-in-real.html>

<http://www.intmath.com/help/useoftrig.php>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/AT13												
	Course Title: ALGEBRA AND TRIGONOMETRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23MT/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies; Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-energy resources: renewable and non-renewable sources, impact of over-exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and *ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects and control measures -Impact of over-population on pollution and health – carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations Sustainable Development Goals of the 2030 Agenda
- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences

2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3

(6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si'*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23MT/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group discussions
Group presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI -600086

Allied Core Offered to students of Mathematics by Department of Physics

SYLLABUS
(Effective from the academic year 2023–2024)

PHYSICS FOR MATHEMATICS I

CODE: 23PH/AC/PM13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To impart fundamental knowledge in the concepts and laws of physics.
- To train the students in visualizing the Physics behind the characteristics of solids and liquids at different conditions.
- To inculcate practical knowledge related to the dynamic theories evolved in mechanics, viscosity and theory of relativity.
- To engage the students in cultivating physics-based problem-solving abilities in different scientific scenarios
- To encourage the students to apply acquired theoretical knowledge to solve realistic problems

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	Description	CL
CO 1	acquire knowledge on elasticity, bending of beams and theories of surface tension and viscosity of liquids, mechanics, and the basic concepts of relativity.	K1
CO2	describe the elastic behaviour of solids, the physical properties of liquids that impact fluid motion, and explain the concepts of mechanics and relativity.	K2
CO3	apply the mathematical tools to solve simple and complex problems in physics	K3
CO 4	examine the behaviour of rigid bodies and liquids utilizing theoretical concepts.	K4
CO 5	formulate the knowledge gained in theory for real life and practical applications.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNITS	COURSE DETAILS	CL	Hrs	CO
1	Mechanics I 1.1 Impulse-Impact-Conservation of linear momentum: Internal forces and momentum conservation – center of mass- examples- General elastic collision of particles of different masses. 1.2 Significance of conservation laws- law of conservation of Energy- concepts of work- power – energy – potential energy.	K1-K5	6	1-5
2	Mechanics II 2.1 Simple Harmonic Motion: Periodic and Harmonic Motion- Formula for acceleration, velocity and displacement - Energy of a Harmonic Oscillator- oscillation in spring mass-springs in series and parallel. 2.2 Classical mechanics: Degrees of freedom and constraints - Generalized Coordinates - principle of virtual work - De Alembert's principle -Explanation of Lagrangian equation (No derivation) Application of Lagrangian equation in Atwood's machine and Simple pendulum.	K1-K5	7	1-5
3	Elasticity 3.1 Elastic properties: Hooke's law - Elastic limit moduli of Elasticity Poisson's ratio 3.2 Expression for Bending Moment - Depression at the loaded end of the cantilever – depression and elevation at the midpoint of a loaded beam (non-uniform and uniform bending) – Torsion in a wire – Torque per unit twist – torsional oscillations – Expression for period	K1-K5	6	1-5
4	Viscosity and Surface Tension 4.1 Viscosity: Coefficient of viscosity - Stream Line Flow and Turbulent Flow – Critical Velocity – Euler's Equation for unidirectional flow 4.2 Surface Tension: molecular theory of surface tension - Determination of Surface Tension by Drop Weight Method- Interfacial Surface Tension	K1-K5	7	1-5
5	Relativity 5.1 Inertial Frames of Reference – Newtonian Relativity – Galilean Transformation Equations 5.2 Postulates of Special Theory of Relativity- Lorentz Transformation Equations- Length Contraction - Time Dilation - Twin Paradox and Meson Paradox 5.3 Relativistic Momentum (no derivation) – Mass Energy Relation- Physical Significance.	K1-K5	13	1-5

BOOKS FOR STUDY

Murugesan R. *Properties of Matter and Acoustics*. New Delhi: S Chand, 2018.
 Narayanamurthi M. & N Nagarathnam. *Dynamics*. Chennai: The National, 1996.
 Resnick, Robert. *Introduction to Special Relativity*. New Delhi: Wiley Eastern, 2021.

BOOKS FOR REFERENCE

Goldstein Herbert. Second Edition. *Classical Mechanics*. U.S.A: Addison & Wesley, 2002.

Halliday, David and Robert, Resnick. *Physics Vol.I*. Chennai: New Age, 2021.

Halliday, David Robert Resnick and Walker Jearl. *Fundamentals of Physics*. Kundhi: John Wiley, USA, 2021.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:**Total Marks: 50**

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PM13												
I	Course Title: PHYSICS FOR MATHEMATICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	1	2	2	1	2	3	2	2	1
CO 2	3	3	3	3	3	2	2	1	3	3	3	2	2
CO 3	3	2	2	2	3	2	2	1	2	3	2	3	3
CO 4	3	3	3	2	3	2	1	2	2	2	3	2	2
CO 5	3	3	2	2	3	1	1	2	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

Allied Core Offered to students of Mathematics by Department of Physics

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL I

CODE: 23PH/AC/P112

CREDITS : 2

L T P : 0 0 3

TOTAL HOURS: 39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

Experiments	CL	Hrs	CO
1. Determination of 'g'- Compound Pendulum. 2. Young's Modulus 'E' by Non-Uniform Bending- Pin and Microscope 3. Young's Modulus 'E' by Uniform Bending- Scale and Telescope 4. Rigidity Modulus 'G' - Torsional pendulum 5. Surface Tension and Interfacial Surface Tension – Drop Weight Method. 6. Determination of the Refractive Index of the material of a prism - Spectrometer. 7. Verification of Series and Parallel connections of resistance and Determination of Specific Resistance - Post Office Box 8. Characteristics of a Zener Diode 9. Verification of Newton's Law of Cooling for two liquids	K1-K5	39	1-5

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan, V., & Balakrishnan, R. *A Text Book of Practical Physics. Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Knowledge Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:**Total Marks: 50****Duration: 3 hours**

CRITERION	Knowledge Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P112												
I	Course Title: PHYSICS PRACTICAL I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Sc. DEGREE: BRANCH I – MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

INTEGRAL CALCULUS

CODE: 23MT/MC/IC23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To evaluate integration of irrational functions and improper integrals
- To extend the idea of definite integral to double and triple integrals of functions of two or three variables
- Apply multiple integrals to compute volume and surface area of general regions
- To apply the change of variable technique in both double and triple integrals to simplify the integration process and solve practical problems
- To study the Beta and Gamma integrals and the relationship between them

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall and reproduce various integration techniques	K1
CO2	understand the concept of multiple and improper integrals	K2
CO3	employ various techniques in evaluating multiple integrals	K3
CO4	analyse and explain the results of multiple integral through illustrations with examples	K4
CO5	predict appropriate methods to find the solution of problems on integral calculus	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Methods of Integration 1.1 Integration of Irrational Functions of the Type: $\frac{1}{(x-k)\sqrt{ax^2+bx+c}}, \frac{1}{(Ax^2+B)\sqrt{Cx^2+D}},$ $\frac{1}{(ax^2+bx+c)\sqrt{Ax^2+Bx+C}}, \sqrt{(x-\alpha)(\beta-x)},$ $\frac{1}{\sqrt{(x-\alpha)(\beta-x)}}, \sqrt{\frac{x-\alpha}{\beta-x}}$	K1-K5	11	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	1.2 Integration of functions of type: $\frac{1}{a+b \cos x}$, $\frac{1}{\sqrt{a^2 \cos^2 x + b^2 \sin^2 x}}$			
2	Improper Integrals 2.1 Infinite Integrals 2.2 Discontinuous Integrands 2.3 Comparison Test	K1-K5	9	CO1-5
3	Double Integrals 3.1 Iterated Integrals 3.2 Double Integrals over General Regions 3.3 Double Integrals in Polar Coordinates 3.4 Surface Area using Double Integrals	K1-K5	11	CO1-5
4	Triple Integrals 4.1 Triple Integrals 4.2 Applications of Triple Integrals 4.3 Change of Variable in Double and Triple Integral	K1-K5	11	CO1-5
5	Beta and Gamma Integrals 5.1 Definitions of Beta and Gamma Integrals 5.2 Recurrence Formula for Gamma Functions 5.3 Properties of Beta Functions 5.4 Relation between Beta and Gamma Functions	K1-K5	10	CO1-5

BOOK FOR STUDY

Stewart, James. *Calculus – Concepts and Contexts*. Second Edition. United States: Brooks Cole Thomson Learning Pvt., 2001.

Chapter 5 Section 5.10

Chapter 12 Section 12.2 – 12.4, 12.6, 12.7, 12.9

S, Narayanan and T.K. Manicavachagam Pillay. *Calculus - Vol II*. Chennai: S. Viswanathan, 2012.

Chapter 1 Sec. 8 (cases $v - x$), 9, 10

Chapter 7 Sec. 2.1, 2.3, 3 and 4

BOOKS FOR REFERENCE

Jeffrey, Alan. *Handbook of Mathematical formulas and Integrals*. United States: Academic, Third Edition 2005.

Khalil, Ahmad, et al. *Textbook of Integral Calculus and Differential Equations*. New Delhi: Anamaya Publishing, 2005.

Singh, U.P., et al. *Integral Calculus*. New Delhi: Wisdom Press, 2011.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50
Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/IC23												
	Course Title: INTEGRAL CALCULUS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ANALYTICAL GEOMETRY

CODE: 23MT/MC/AG24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the concepts of two-dimensional and three-dimensional coordinate geometry in depth
- To recognize the type of conic sections and understand its properties
- To study the conjugate diameters and properties of ellipse and hyperbola
- To describe the various forms of equations of a plane, straight lines, sphere and cone
- To solve problems related to geometry of two dimensions and three dimensions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	identify the nature of a given general second degree equation and define the basics of plane, straight line, sphere and cone in 3D	K1
CO2	understand the different types of conics in 2D and 3D	K2
CO3	apply the formula for finding the centre, lengths and axes of a central conic and find the properties of ellipse and hyperbola as well as to describe the various forms of plane, straight line, sphere and cone	K3
CO4	analyse the different parameters of conics in 2D & 3D	K4
CO5	evaluate the problems related to the geometry of two-dimension and three-dimensions	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	General Second Degree Equation 1.1 Condition for a General Second Degree Equation to Represent a Conic 1.2 Centre of the Conic given by the General Second Degree Equation (Concept Only) 1.3 Lengths And Positions of the Axes of the Central Conic $Ax^2 + 2hxy + By^2 = 1$ (Concept Only)	K1- K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Ellipse 2.1 Conjugate Diameters of Ellipse 2.2 Properties of Conjugate Diameters of Ellipse Hyperbola 2.3 The Asymptotes 2.4 Angle Between the Asymptotes 2.5 Properties of the Asymptotes 2.6 The Conjugate Hyperbola 2.7 Conjugate Diameters of Hyperbola 2.8 Properties of Conjugate Diameters of Hyperbola 2.9 Rectangular Hyperbola	K1- K5	13	CO1-5
3	Plane 3.1 General Equation 3.2 Intercept Form 3.3 Normal Form 3.4 Angle Between Two Planes 3.5 Equation of Plane through the Line of Intersection of Two Given Planes 3.6 Length of Perpendicular from a given Point to a Plane	K1- K5	13	CO1-5
4	Straight Line 4.1 Symmetrical Form 4.2 Line Through Two Points 4.3 Reduction of the Unsymmetrical Form to the Symmetrical Form 4.4 Condition for a Line to Lie on a Plane 4.5 Plane through a Given Line 4.6 Condition for Two Lines to be Coplanar 4.7 Equation of the Plane Containing the Two Lines 4.8 Shortest Distance Between Two Skew Lines and Equation of the Line Containing the Shortest Distance	K1- K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
5	Sphere And Cone 5.1 Equation of a Sphere with Given Centre and Radius 5.2 General Form of the Equation of a Sphere 5.3 Plane Section of a Sphere 5.4 Intersection of two Spheres 5.5 Equation of a Circle on a Sphere 5.6 Equation of Sphere Passing through Given Circle 5.7 Tangent Plane to a Sphere 5.8 Right Circular Cone; Necessary Condition for a General Equation of Second Degree to Represent a Cone 5.9 Equation of a Cone with Given Vertex, Axis and Semi-Vertical Angle	K1- K5	14	CO1-5

BOOKS FOR STUDY

Pillay, Manicavachagam T. K, and Natarajan T. *A Text book of Analytical Geometry Part I - Two dimensions*. Madras: S. Viswanathan Printers and Publishers Pvt., Ltd., Reprint 2013.

Chapter 7 Sections 16.1–16.3

Chapter 8 Sections 4 – 10

Chapter 10 Sections 3 – 6

Pillay, Manicavachagam T. K, and Natarajan T. *A Text Book of Analytical Geometry - Part II (Three Dimensions)*. Chennai: Ananda Book Depot, Reprint 2022.

Chapter 2 Sections 1 – 10

Chapter 3 Sections 1 – 8

Chapter 4 Sections 1 – 8

Chapter 5 Sections 2.1

BOOKS FOR REFERENCE

Arup Mukherjee. *Analytical Geometry of two and three Dimensions*. Kolkata: Arunabha Sen Books and Allied Pvt., Ltd., 2010

Krishnan, Hari. *Coordinate Geometry of Two Dimensions*. New Delhi: Atlantic Press, 2006.

Narayan, et al. *Analytical Solid Geometry*, New Delhi: S Chand and Co., Pvt. Ltd., 2016.

Singh, Shalini. *Two Dimensional Geometry*. New Delhi: Sarup and Sons, 2000.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/MC/AG24												
	Course Title: ANALYTICAL GEOMETRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

Allied Core Offered by the Department of Physics to Students of Mathematics

SYLLABUS

(Effective from the academic year 2023 - 2024)

PHYSICS FOR MATHEMATICS II

CODE:23PH/AC/PM23

CREDITS:3

L T P: 3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To deepen understanding on the fundamental laws and principles in physics.
- To equip students to study the theoretical concepts based on charges, geometrical and physical optics and the characteristics of Operational Amplifier.
- To elucidate the students with the concepts of electricity, magnetism, optics and electronics in realistic situations.
- To guide students to deduce expressions for various theories pertaining to physics using mathematical concepts.
- To allow students to examine concepts to resolve problems across multiple scientific contexts.

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO 1	understand the fundamental principles of electricity, magnetism, optics and electronics.	K1
CO 2	describe the theory of charges in electric and magnetic field, optical aberrations, interference, diffraction, polarization and also the theory behind working of digital circuits.	K2
CO 3	illustrate the behavior of charges using Gauss's Law and Maxwell's electromagnetic equations, importance of different types of telescopes, significance of physical properties in optics and Boolean algebra.	K3
CO 4	analyze the gained knowledge to derive expression for electric field, electric potential, force on a current carrying conductor in a magnetic field, aberrations, determination of wavelength and De Morgan's Theorem.	K4
CO 5	evaluate problems in physics and in realistic situations utilizing theoretical concepts.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Electricity 1.1 Introduction – Coloumb’s law, electric flux, Gauss's law and proof – Differential form of Gauss's law - Applications of Gauss theorem- Infinite line of charge, uniformly charged solid sphere - Field due to a uniformly charged hollow cylinder. 1.2 Electric potential - Electric potential as a line integral of electric field, potential due to a point charge – Relation between electric field and electric potential – Work done in moving a charge (earthed inside and outside) – Capacitance - Capacitance of spherical capacitor.	K1 – K5	6	1-5
2	Magnetism 2.1 Magnetic induction – Force on a Charge in a Magnetic Field, in an electromagnetic Field (Lorentz Force) – Biot-Savart law – Ampere’s circuital law - Maxwell’s electromagnetic Equations (No derivation) – Physical significance of the equations. 2.2 Electromagnetism: Force on a current carrying conductor in a magnetic field – Torque on a current loop in a uniform magnetic field – Moving coil Ballistic Galvanometer – Theory, current and charge sensitivity of B.G.	K1 – K5	7	1-5
3	Geometrical Optics 3.1 Lens Aberrations: Monochromatic aberrations – Spherical aberration in lenses – Methods of minimizing spherical aberration- Coma, Astigmatism, distortion- Chromatic aberration – achromatic combination of lenses in contact and lenses separated by a distance. 3.2 Optical Instruments: Telescopes – Angular magnification of telescopes - Refractive astronomical telescope – Terrestrial telescope – Reflecting telescopes – Radio telescope – Hubble telescope.	K1 – K5	6	1-5
4	Physical Optics 4.1 Interference: Thin films - Plane parallel film – Interference due to reflected and transmitted light – Newton’s rings – Measurement of wavelength. 4.2 Diffraction: Theory of plane transmission grating - Normal incidence – Determination of wavelength - Polarization – Double refraction – Nicol prism – Optical activity – Uses of polaroids.	K1 – K5	7	1-5
5	Electronics 5.1 Introduction to amplifiers - Operational amplifier – Ideal Op-Amp - CMRR –Inverting and non-inverting Op-Amp - Summing, difference, integral and differential Op-Amp. 5.2 Boolean algebra- De Morgan’s Theorem – Verification - Algebraic simplification – Implementation of Boolean algebra into circuits - Karnaugh map up to four variables.	K1 – K5	13	1-5

BOOKS FOR STUDY

R. Murugeshan, *Electricity and Magnetism*, S. Chand and Co. Pvt. Ltd, New Delhi, India, 2017.
Murugeshan. R. *Modern Physics*, S. Chand and Co. Pvt. Ltd, New Delhi, India, 2013.
Subrahmanyam, N. and Lal Brij, *Textbook of Optics*, S. Chand, Limited, New Delhi, India, 1995.
Mehta, V.K. *Principles of Electronics*, S. Chand and Co, Pvt. Ltd, New Delhi, India, 2014.

BOOKS FOR REFERENCE

Haliday, David and Robert Resnick. *Physics Vol. II*. New Age: Chennai, India 1995.
Kakani, S L, and Bhandari K C. *A Text Book of Optics*, Sultan Chand, New Delhi, India, 2002.
Laud. B.B., *Lasers and Non – Linear Optic*, Wiley Eastern: New Delhi, India, 1991.
R. Murugeshan Kiruthiga Sivaprasath, *Optics and Spectroscopy*, S. Chand and Co, Pvt. Ltd. 7th revised edition, New Delhi, India, 2010.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 1 hour 30 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10 x 1 = 10 marks (Multiple-choice All questions to be answered)
B	K2	10	5 x 2 = 10 marks (All questions to be answered in BRIEF)
C	K3, K4	20	1 x 20 = 20 marks (1 out of 2 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	10	2 x 5 = 10 marks (2 out of 4 to be answered - only problems)

Other Components:

Total Marks: 50

Seminar/Presentation/Quiz/Assignments/Problem solving

All K1 – K5 levels to be assessed

End Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	20 x 1 = 20 marks (Multiple-choice All questions to be answered)
B	K2	20	10 x 2 = 20 marks (All questions to be answered in BRIEF)
C	K3, K4	40	2 x 20 = 40 marks (2 out of 4 questions to be answered - only theory) Each question will have 2 sub division with one K3 level and one K4 level question of equal weightage
D	K5	20	4 x 5 = 20 marks (4 out of 6 to be answered - only problems)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/PM23												
II	Course Title: PHYSICS FOR MATHEMATICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	3	2	1	3	3	2	3	3
CO 2	3	3	3	3	3	3	2	1	3	3	3	2	2
CO 3	3	2	3	2	3	3	2	1	2	3	2	3	3
CO 4	3	3	3	3	3	3	2	1	2	2	3	3	3
CO 5	3	3	2	3	3	3	3	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

Allied Core Offered by the Department of Physics to Students of Mathematics

SYLLABUS

(Effective from the academic year 2023–2024)

PHYSICS PRACTICAL II

CODE:23PH/AC/P222

CREDITS:2

L T P:0 0 3

TOTAL HOURS:39

OBJECTIVES OF THE COURSE

- To disseminate basic knowledge on the fundamental principles and the working of various scientific equipment.
- To enable the students to understand the experimental procedure in determining various physical properties.
- To impart necessary technical skills to handle the equipment, perform the experiment and record the data.
- To facilitate the students in analyzing and drawing inferences from the acquired data.
- To guide the students to precisely evaluate and propose scientific solutions.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	acquire knowledge of the fundamental principles and the working of various scientific equipment.	K1
CO2	comprehend experimental procedures in determining various physical properties.	K2
CO3	devise technical skills to troubleshoot and handle errors in measurements.	K3
CO4	analyzing and drawing inferences from the acquired data.	K4
CO5	evaluate and propose scientific solutions.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

S.No.	EXPERIMENTS	CL	Hrs	CO
1.	Rigidity Modulus 'G' by Static Torsion	K1-K5	39	1-5
2.	Determination of Radius of Curvature of a Lens - Newton's Rings			
3.	Grating – Normal Incidence - Determination of Wavelengths (λ) of Prominent lines of mercury spectrum - Spectrometer			
4.	Determination of Specific Heat of a Liquid – Joule's Calorimeter – Applying Half Time Correction			
5.	Ammeter Calibration (Low Range) - Potentiometer			
6.	OPAMP- Inverting and Non Inverting Amplifier			
7.	Specific Heat Capacity of a Solid – Method of Mixtures			
8.	Determination of Specific Resistance - Carey Foster's bridge			
9.	Coefficient of Viscosity – Poiseuille's Method			

BOOKS FOR STUDY

Ouseph, C.C., Srinivasan, V. and Balakrishnan R., *A Text Book of Practical Physics. Vol. I & II.*, S. Viswanathan, Chennai, 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment Test:

Total Marks: 50

Duration: 3 hours

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

End Semester Examination:**Total Marks: 50****Duration: 3 hours**

CRITERION	Cognitive Level	Marks
Aim & Formula Experimental Procedure	K1, K2	20
Observation & Calculation	K3, K4	20
Results, Accuracy & Error estimation	K5	10
TOTAL		50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PH/AC/P222												
II	Course Title: PHYSICS PRACTICAL II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	3	3	3	3	3	2	1
CO 2	3	2	3	3	2	3	2	2	3	2	3	3	2
CO 3	3	2	2	3	3	3	2	3	3	2	2	3	3
CO 4	3	3	2	2	1	3	3	2	3	3	2	2	1
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ELEMENTS OF GRAPH THEORY

CODE: 23MT/MC/EG34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand basic concepts of graph theory
- To interpret the concepts of connectedness and their nature of connectivity
- To discover the properties of trees and its characterisation
- To apply graph theory based tools in solving practical problems
- To analyze the applications of graph theory in various fields

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and list the basic concepts of graph theory	K1
CO2	summarize and outline the various graph theoretical terminologies	K2
CO3	identify and apply suitable methods to find solutions to problems related to graph theory	K3
CO4	analyse and examine the properties of various types of graphs through illustrative examples	K4
CO5	choose suitable graph theoretical concepts to estimate the various graphical parameters for any given graph	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Basic Concepts of Graph theory 1.1 Graphs-Vertices and Edges 1.2 Degrees 1.3 Subgraphs 1.4 Isomorphism 1.5 Matrices 1.6 Operations on Graphs	K1- K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Degree Sequences 2.1 Degree Sequences 2.2 Graphic Sequences Connectedness 2.3 Walks, Trails and Paths 2.4 Connectedness and Components 2.5 Blocks	K1- K5	13	CO1-5
3	Eulerian and Hamiltonian Graphs 3.1 Eulerian Graphs 3.2 Konigsberg Bridge Problem 3.3 Hamiltonian Graphs 3.4 Closure of a Graph	K1- K5	13	CO1-5
4	Trees 4.1 Characterisation of Trees 4.2 Centre of a Tree Planarity 4.3 Definition and Properties 4.4 Characterization of Planar Graphs	K1- K5	13	CO1-5
5	Directed Graphs 5.1 Directed Graphs 5.2 Indegree and Outdegree 5.3 Sequential Representation of Directed Graphs Graph Algorithms 5.4 Prim's Algorithm 5.5 Kruskal's Algorithm 5.6 Fleury's Algorithm	K1- K5	13	CO1-5

BOOKS FOR STUDY

Lipschutz, Seymour and Marc Lars Lipson. *Schaum's Outlines Discrete Mathematics*. New Delhi: Tata McGraw-Hill Publishing Company Limited, Revised Third Edition, Thirteenth Reprint 2020.

Chapter 8 Section 8.8 (Prim's and Kruskal's Algorithm only)

Chapter 9 Sections 9.1 – 9.3, 9.5 (Exclude Transitive Closure)

S, Arumugam and Ramachandran S. *Invitation to Graph Theory*. Chennai: Scitech Publications, Reprint July 2023.

Chapter 2 Sections 2.1 - 2.4, (Exclude Ulam's Conjecture) 2.8, 2.9
Chapter 3 Sections 3.1, 3.2
Chapter 4 Sections 4.1 - 4.3
Chapter 5 Sections 5.1, 5.2
Chapter 6 Sections 6.1, 6.2
Chapter 8 Sections 8.1, 8.2

BOOKS FOR REFERENCE

B, Balakrishnan and K Ranganathan. *A Textbook of Graph Theory*. New York: Springer Science and Business Media, 2000

Bondy J A and U S R Murty. *Graduate Texts in Mathematics*. New York: Springer Science and Business Media, 2008

C, Vasudev. *Graph Theory with Application*. New Delhi: New Age International (P) Ltd. Publishers, 2006

Diestel, Reinhard. *Graph Theory*. New York: Springer Science and Business Media, 2006

Gary, Chartrand. *Introductory Graph Theory*. New York: Courier Corporation, 2012

Narsingh, Deo. *Graph Theory with Applications to Engineering and Computer Science*. New York: Courier Dover Publications, 2016.

Skiena, Steven S. *The Algorithm Design Manual*. London: Springer Publishers, 2010

W, Joyner David, Melles Caroline Grant. *Adventures in Graph Theory*. New York: Springer International Publishers, 2018

WEB RESOURCES

<https://www.youtube.com/watch?v=ZsUwebrgJAc&t=25s>

<https://www.coursera.org/learn/graphs>

<https://www.youtube.com/watch?v=87X57ldq1ok&list=PLDV1Zeh2NRsDGO4--qE8yH72HFL1Km93P&index=3>

<https://www.youtube.com/watch?v=87X57ldq1ok&list=PLDV1Zeh2NRsDGO4--qE8yH72HFL1Km93P&index=3>

<https://www.youtube.com/watch?v=QwX1ncB13B0>

<https://www.youtube.com/watch?v=AamHZhAmR7o>

<https://www.youtube.com/watch?v=5M-m62qTR-s>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/EG34												
	Course Title: ELEMENTS OF GRAPH THEORY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

DIFFERENTIAL EQUATIONS

CODE: 23MT/MC/ DE34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the basic types of ordinary differential equations and partial differential equations
- To gain logical skills in the formulation of differential equations
- To appreciate the use of differential equations as a powerful tool to solve real life problems
- To critically analyze the various methods in solving differential equations
- To interpret the solution obtained in solving differential equations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the basic types of ordinary, partial differential equations and system of differential equations	K1
CO2	understand and illustrate the methods used for solving the problems	K2
CO3	apply differential equations to model and solve the real world problems	K3
CO4	classify and analyze various methods used in solving differential equations	K4
CO5	evaluate general solutions of ordinary and partial differential equations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Second Order Differential Equations 1.1 Second Order Differential Equations with Constant Coefficients 1.2 Particular Integral	K1-K5	14	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	1.3 Special Methods of Finding Particular Integral 1.4 Particular Integral of the Form $e^{ax}, \sin ax, \cos ax, x^m$ 1.5 Second Order Differential Equations with Constant Coefficients, Particular Integral of the Form $e^{ax}V$ where V is a Function of x			
2	Second Order Differential Equations with Variable Coefficients 2.1 Linear Equations With Variable Coefficients 2.2 Equations Reducible to the Linear Homogeneous Equation 2.3 Variation of Parameters Simultaneous Differential Equations 2.4 Simultaneous Equations of the First Order and First Degree 2.5 Simultaneous Linear Differential Equations with Constant Coefficients	K1-K5	13	CO1-5
3	Partial Differential Equations of the First Order 3.1 Introduction 3.2 Formulation of Partial Differential Equation by Eliminating Arbitrary Constants and Arbitrary Functions 3.3 Classification of Integrals 3.4 Some Particular Method – $f(p,q) = 0, z = px + qy + f(p,q), f(z,p,q) = 0, f(x,p) = F(y,q)$ 3.5 Linear Partial Differential Equation of Order One - Lagrange's Method	K1-K5	13	CO1-5
4	Partial Differential Equations of Higher Order with Constant Coefficients 4.1 Homogeneous Linear Partial Differential Equations with Constant Coefficients 4.2 Solutions of Partial Differential Equations 4.3 Complementary Function 4.4 Particular Integral of the form e^{ax+by}, x^r, y^s	K1-K5	13	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
5	Applications of Second Order Linear Differential equations 5.1 Spring Problems 5.2 Electrical Circuit Problems 5.3 Related Problems	K1-K5	12	CO1-5

BOOK FOR STUDY

S,Narayanan and T. K. Manicavachagam Pillay. *Calculus - Vol. III*. S. Chennai : Viswanathan Printers & Publishers, Reprint -2012-2022.

Chapter 2 Section 1-4, 8 – 10

Chapter 3 Section 2, 6

S, Santha. *Transforms and Partial Differential Equations*. Chennai: Vijay Nicole Imprints Private Ltd, 2009.

Chapter 1 Section 1.1-1.4, 1.6-1.8 (1.8.1 only)

Bronson, Richard and Gabriel B Costa. *Schaum's Outlines Differential Equations*. New Delhi: Tata McGraw Hill Education Pvt. Ltd., Special Indian Edition 2011

Chapter 14 Sections 14.1 –14.2

BOOKS FOR REFERENCE

Boyce, William E. and Richard C. DiPrima, *Elementary Differential Equations and Boundary Value Problems*. USA, John Wiley & Sons , Reprint 2013.

T, Amarnath. *An Elementary Course in Partial Differential Equation (2nd Edition)*. New Delhi: Narosa Publishing House, 2003.

S, Narayan and T.K. Manicavachagom Pillay. *Differential Equations and its Applications*. Chennai: S.Viswanathan Printers & Publishers Pvt. Ltd., 2001.

B, Rai, D.P. Choudhury, and H.I. Freedman. *A Course in Ordinary Differential Equations*. New Delhi: Narosa Publishing House, 2002.

J.N, Sharma and Kehar Singh. *Partial Differential Equations for Engineers and Scientists*. New Delhi: Narosa Publishing House, 2000.

J.N, Sharma and R.K.Gupta. *Differential Equations*. Meerut: Krishna Prakashan Mandir, 1999

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/MC/DE34												
	Course Title: DIFFERENTIAL EQUATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICAL STATISTICS I

CODE: 23MT/AC/ST35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVE OF THE COURSE

- To provide an understanding of random variables, cumulative distribution functions, and the properties associated with probability distributions
- To comprehend mathematical expectation, covariance, moment generating functions, and conditional expected values, and their practical applications
- To analyze and apply special discrete probability distributions, such as binomial and Poisson distributions and their relationships
- To explore the properties and characteristics of the normal distribution
- To examine the concepts of correlation and regression, and their applications in analyzing relationships between variables.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the basic concepts of probability distributions, expectations, correlation and regression	K1
CO2	demonstrate a comprehensive understanding of concepts related to random variables, mathematical expectation, probability distributions and relation between two variables	K2
CO3	apply the statistical principles to solve problems involving one and two-dimensional variables	K3
CO4	analyse and interpret various probability distributions, and the relational coefficients	K4
CO5	critically evaluate the appropriateness and effectiveness of statistical models and tools	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Random Variables 1.1 Cumulative Distribution Function 1.2 Properties of Cumulative Distribution Function 1.3 Two-Dimensional Random Variables 1.4 Marginal and Conditional Probability Distribution	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Mathematical Expectation 2.1 Mean and Variance and their Properties 2.2 Expected Value of a Function of one and two Dimensional Random Variable 2.3 Covariance of X, Y 2.4 Conditional Expected Values 2.5 Moment and Cumulant Generating Function 2.6 Characteristic Function 2.7 Tchebycheff Inequality	K1-K5	14	CO1-5
3	Special Discrete Probability Distributions 3.1 Binomial Distribution: Characteristic Function, Mean, Mode and Variance, Recurrence Formula 3.2 Poisson Distribution: Moment Generating Function, Central Moments, Recurrence Formula, Mode and Additive property 3.3 Poisson Distribution as a Limiting Form of Binomial Distribution	K1-K5	14	CO1-5
4	Normal Distribution 4.1 Normal distribution: Mean, Variance, Median, Mode, Central Moments, Mean Deviation about the Mean, Quartile Deviation, Moment Generating Functions, Additive Property 4.2 Normal Probability Curve and its Characteristics 4.3 Normal Distribution as a Limiting Form of Binomial Distribution	K1-K5	13	CO1-5
5	Correlation 5.1 Scatter Diagram 5.2 Types of Correlation 5.3 Correlation Coefficient and its Properties 5.4 Correlation of Grouped Bi-variate Data 5.5 Rank Correlation Coefficient 5.6 Merits and Demerits Regression 5.7 Equation of the Regression Line of Y on X 5.8 Properties of Regression Coefficients 5.9 Standard Error of Estimate of Y	K1-K5	12	CO1-5

BOOK FOR STUDY

Veerarajan, T. *Fundamentals of Mathematical Statistics*. First edition, Chennai: Yes Dee Publishing Pvt. Ltd., 2017.

Chapter 5	Sections 5.1 – 5.4 (omit 5.4.9)
Chapter 7	Sections 7.1 – 7.6
Chapter 8	Sections 8.1 – 8.4, 8.5.1
Chapter 9	Sections 9.1 (9.1.1 – 9.1.3), 9.2 (9.2.1 – 9.2.7)
Chapter 10	Section 10.9 (10.9.1 – 10.9.5, 10.9.7 – 10.9.9)
Chapter 11	Section 11.1 - 11.4

BOOKS FOR REFERENCE

Freedman, David et. al. *Statistics*. 4th Edition, New Delhi: Vinod Vaistha for Viva Books, 2009.

S, Arumugam, and Issac A. *Statistics*. Palayamkottai: New Gamma Publishing House, 1999.

Sancheti, D.C. and Kapoor V. K. *Statistics: Theory, Methods & Application*. New Delhi: S. Chand & Company Ltd, 2014.

Vittal P.R. *Mathematical Statistics*. Chennai: Margham Publications Pvt. Ltd., 2002.

WEB RESOURCES

<http://makemeanalyst.com/normal-distribution-binomial-distribution-poisson-distribution/>

<https://www.g2.com/articles/correlation-vs-regression>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/ST35												
	Course Title: MATHEMATICAL STATISTICS I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	2	3	3	3	3	2
CO 2	3	3	3	3	2	2	2	2	3	3	3	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Com (A&F) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMMERCE

CODE: 23MT/AC/MT35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts pertaining to the discipline of commerce
- To employ different techniques to solve problems pertaining to matrices, equations and LPP
- To appreciate the concept of numerical differentiation and integration as an alternate tool to solve problems on differentiation and integration
- To promote problem solving skills and quantitative analysis
- To model and solve real time problem using linear programming method

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall and define the basic mathematical concepts on matrices, equations, differentiation, integration and linear programming problem	K1
CO2	understand and compare the concepts relating to matrices, polynomials, numerical methods and linear programming problem	K2
CO3	utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CO4	analyse and examine the problem relating to the applications of matrices, differentiation, integration and optimization	K4
CO5	evaluate solutions to the problems related to matrices, equations, differentiation, integration and linear programming problem	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Matrices 1.1 Types of Matrices 1.2 Characteristic Equation of a Matrix 1.3 Cayley - Hamilton Theorem (without proof) 1.4 Eigen Values and Eigen Vectors 1.5 Diagonalization of 3×3 Matrices with Distinct Eigen Values	K1- K5	13	CO1-5
2	Theory of Equations 2.1 Formation and Solution of Equation with Imaginary and Irrational Roots 2.2 Relation between Roots and Coefficients 2.3 Solution of Equations under given Conditions 2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients 2.5 Reciprocal Equations	K1-K5	14	CO1-5
3	Numerical Methods Algebraic and Transcendental Equations 3.1 The Bisection Method 3.2 Newton - Raphson Method Simultaneous Equations 3.3 Gaussian Elimination Method 3.4 Gauss Jordan Elimination Method 3.5 Gauss Jacobi Iteration Method 3.6 Gauss Seidal Iteration Method	K1-K5	13	CO1-5
4	Numerical Differentiation and Numerical Integration 4.1 Derivatives using Newton's forward difference Formula 4.2 Derivatives using Newton's backward difference Formula 4.3 Trapezoidal Rule 4.4 Simpson's One Third Rule 4.5 Simpson's Three Right Rule	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
5	Linear Programming Problem 5.1 General L.P.P. 5.2 Canonical and Standard Forms of L.P.P. 5.3 The Simplex Algorithm 5.4 The Big-M method	K1-K5	13	CO1-5

BOOKS FOR STUDY

S, Arumugam, et al. *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017.

Chapter 3 Sections 3.3, 3.5

Chapter 4 Sections 4.3, 4.4, 4.7, 4.8

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to concepts only)

V, Sundaresan, et al. *Resource Management Techniques*. Chennai: A.R. Publications, 2014.

Chapter 3 Sections 3.1.1 – 3.1.4, 3.2.1

S G, Venkatachalapathy. *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016.

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

BOOKS FOR REFERENCE

A, Abdul Rasheed. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008.

S, Kalavathy. *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

S, Sankarappan, et al. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

WEB RESOURCES

<https://youtu.be/w8i89ftfZPI?si=HlaO4tYZ9ge9zPsx>

https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SMT1302.pdf

<https://www.math.ucla.edu/~tom/LP.pdf>

<http://www.math.iitb.ac.in/~baskar/book.pdf>

<http://ncert.nic.in/ncerts/l/lemh206.pdf>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MT35												
	Course Title: MATHEMATICS FOR COMMERCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	1	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	1	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	1	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	1	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	1	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMPUTER SCIENCE I

CODE: 23MT/AC/MS35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the concept of diagonalization through Eigen values and Eigen vectors
- To utilize various methods in solving problems related to transcendental, algebraic equations and a system of linear equations
- To acquire knowledge in numerical integration and differentiation that are used in computer applications
- To introduce simplex technique to solve linear programming problems
- To appreciate the use of appropriate mathematical concepts and skills to solve problems in real life contexts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the various applied mathematical concepts such as matrices, vector analysis, numerical methods and linear programming problems	K1
CO2	understand the fundamentals relevant to the methods utilized in solving problems related to equations, numerical integration and vector differentiation	K2
CO3	apply appropriate mathematical techniques in solving related problems and model real time situations	K3
CO4	analyse the different methodology adapted to solve a particular problem	K4
CO5	evaluate and make inference from the solutions obtained for related problems	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Matrices 1.1 Eigen Values and Eigen Vectors of Square Matrices of Order ≤ 3 1.2 Cayley - Hamilton Theorem 1.3 Diagonalization of Matrices	K1-K5	11	CO1-5
2	Vector Analysis 2.1 Scalar and Vector Point Functions 2.2 Gradient 2.3 Divergence and Curl 2.4 Solenoidal and Irrotational Vectors 2.5 Problems using Vector Identities	K1-K5	14	CO1-5
3	Solution of Transcendental and Algebraic Equations 3.1 The Bisection Method 3.2 Newton-Raphson Method Solution of Simultaneous Equations 3.3 Gauss Elimination Method 3.4 Gauss Jordan Elimination Method	K1-K5	14	CO1-5
4	Numerical Differentiation and Integration Numerical Differentiation 4.1 Derivatives using Newton's Forward Difference Formula 4.2 Derivatives using Newton's Backward Difference Formula Numerical Integration 4.3 Trapezoidal Rule	K1-K5	12	CO1-5
5	Linear Programming Problem 5.1 Linear Programming Formulation 5.2 Graphical Method 5.3 General L.P.P. 5.4 Canonical and Standard Forms of L.P.P. 5.5 The Simplex Algorithm	K1-K5	14	CO1-5

BOOKS FOR STUDY

S Arumugam, et al., *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017.

Chapter 3 Section 3.3, 3.5

Chapter 4 Section 4.3, 4.4

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to the concepts only)

S G Venkatachalapathy, *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016.

Chapter 6 Pages 6.36 - 6.57

Chapter 17 Pages 17.1-17.41[exclude proof of theorems and identities]

V Sundaresan, et al., *Resource Management Techniques*. Chennai: A.R. Publications, 2014.

Chapter 2 Section 2.1-2.8

Chapter 3 Section 3.1.1 – 3.1.4

BOOKS FOR REFERENCE

S Arumugam, S. Ramachadran, *Invitation to Graph Theory*. Chennai: Scitech Publications (India) Pvt. Ltd., Reprint, 2023.

S Kalavathy, *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

A. Rasheed Abdul, *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008.

S Sankarappan, et al., *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MS35												
	Course Title: MATHEMATICS FOR COMPUTER SCIENCE I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	2	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23MT/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

SEQUENCES AND SERIES

CODE: 23MT/MC/SS44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the fundamentals of sets and functions on real numbers
- To understand the concept of convergence of a real sequence
- To discuss the techniques of testing the behavior of infinite series of real Numbers
- To express periodic functions as infinite series
- To determine the Fourier series expansions of certain functions and investigate its convergence

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the fundamental concepts of sets, sequences and series	K1
CO2	understand various concepts related to sets, sequences and series	K2
CO3	apply related theorems and techniques to solve problems on real numbers, sequences and series	K3
CO4	analyze the structure and properties of real numbers, sequences and series	K4
CO5	evaluate the limits of sequences and series and test their convergence	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Sets and Functions 1.1 Functions – Real Valued Functions 1.2 Equivalence, Countability 1.3 Real Numbers 1.4 Least Upper Bounds	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Sequences of Real Numbers 2.1 Definition of Sequence and Subsequence 2.2 Limit of a Sequence 2.3 Convergent and Divergent Sequences 2.4 Bounded Sequences 2.5 Monotone Sequences 2.6 Operations on Convergent and Divergent Sequences	K1-K5	13	CO1-5
3	Supremum, Infimum and Cauchy's Sequences 3.1 Limit Superior and Limit Inferior 3.2 Cauchy Sequences Series of Real Numbers 3.3 Convergence and Divergence 3.4 Series with Non-negative Terms 3.5 Alternating Series 3.6 Conditional Convergence and Absolute Convergence	K1-K5	14	CO1-5
4	Tests for Convergence of a Series of Real Numbers 4.1 Tests for Absolute Convergence 4.2 Series whose terms form a Non-increasing Sequence 4.3 Summation by Parts	K1-K5	14	CO1-5
5	Fourier Series 5.1 Definition of Fourier Series 5.2 Expansions of Periodic Functions with Period 2π 5.3 Odd and Even Functions 5.4 Half-range Fourier Series 5.5 Development in cosine and sine Series	K1-K5	12	CO1-5

BOOKS FOR STUDY

Goldberg Richard.R. *Methods of Real Analysis*. Indian Edition. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd., Reprint 2017.

Chapter 1	Section 1.3 – 1.7
Chapter 2	Sections 2.1 – 2.10
Chapter 3	Sections 3.1 – 3.4, 3.6 – 3.8

S, Narayanan and Manicavachagam Pillay T. K. *Calculus -Volume III*. Chennai: S. Viswanathan Publishers & Printers, 2006.

Chapter 6 Sections 1 – 5

BOOKS FOR REFERENCE

Ajit, Kumar and Kumarasan S. *A Basic Course in Real Analysis*, USA: CPC Press 2014.

Banner Adrian. *The Calculus Lifesaver*. USA: Princeton University Press, ebook.

V. K, Bhat and Jarol Scott. *Introduction to Real Analysis*. New Delhi: Narosa Publishing House, 2012.

S. L, Gupta and Gupta N. R. *Principle of Real Analysis*. New Delhi: Pearson Education, 2003.

V, Karunakaran. *Real Analysis*. India: Pearson Education, 2012.

Narayan, Shanti and Mittal P.K. *A Course of Mathematical Analysis*. Noida: Vikas Publishing House Private Limited, 2021.

Robert, G Bartle. *Introduction to Real Analysis*. New York : John Wiley & Sons, 2010.

Terrance J Quinn. *Pathways to Real analysis*. New Delhi: Narosa Publishing House, 2009.

WEB RESOURCES

https://www.whitman.edu/mathematics/calculus/calculus_11_Sequences_and_Series.pdf

<http://www.math.utah.edu/online/1220/notes/ch9.pdf>

<http://www.math.harvard.edu/~engelwar/MathS305/Sequences%20and%20Series%20Text%20abridged.pdf>

<https://ncert.nic.in/pdf/publication/exemplarproblem/classXI/mathematics/keep209.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:		Total Marks: 50	Duration: 90 minutes
Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: **Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/SS44												
	Course Title: SEQUENCE AND SERIES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

DISCRETE MATHEMATICS

CODE: 23MT/MC/DM43

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To motivate the students to think logically and apply the techniques in problem solving
- To introduce the concepts of ordered relation and understand the fundamental properties of lattices and Boolean algebra
- To apply the knowledge of abstract mathematical structures in computer science
- To introduce the fundamental concepts of formal languages, grammars and automata theory
- To understand deterministic and non-deterministic machines and classify machines by their power to recognize languages

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	acquire the knowledge of logical techniques and identify their applications	K1
CO2	recognize and apply the concepts of logic, lattices, Boolean algebra and Automata in related fields	K2
CO3	demonstrate the characterization of propositional calculus, lattices, Boolean functions and automata	K3
CO4	interpret the sets under study to apply in data structures and theory of computer languages	K4
CO5	assess the emerging fields to utilize the intrinsic concepts of discrete mathematics	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Logic and Propositional Calculus 1.1 Logical Equivalence 1.2 Algebra of Propositions 1.3 Arguments 1.4 Logical Implication	K1- K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	1.5 Propositional Functions, Quantifiers 1.6 Negation of Quantified Statements 1.7 Normal Forms			
2	Lattices 2.1 Lattice 2.2 Properties of Lattices 2.3 Lattices as Algebraic System 2.4 Bounded, Complemented and Distributive Lattice	K1- K5	10	CO1-5
3	Boolean Algebra 3.1 Basic Properties of Boolean Algebra 3.2 Representation Theorem 3.3 Boolean Expressions 3.4 Logic Gates and Circuits 3.5 Boolean Function	K1- K5	10	CO1-5
4	Finite State Automata 4.1 Finite State Machines 4.2 Finite State Automata 4.3 Non-deterministic Finite State Automaton 4.4 Equivalence of DFSA and NDFSA	K1- K5	10	CO1-5
5	Languages and Grammars 5.1 Languages and Regular Expressions 5.2 Languages Determined by FSA 5.3 Grammars 5.4 Derivation Trees for Context Free Grammar	K1- K5	10	CO1-5

BOOKS FOR STUDY

Seymour, Lipschutz. and Marc Lars Lipson, *Schaum's Outline of Theory and Problems of Discrete Mathematics*, New Delhi: Tata McGraw-Hill Publishing Company Limited, Third Edition 2010

Chapter 4 Sections 4.6, 4.7, 4.9 - 4.13

Ram, Babu. *Discrete Mathematics*, Noida: Pearson - Dorling Kindersley (India) Pvt. Ltd., 2011.

Chapter 6 Sections 6.1 – 6.3, 6.5

Chapter 7 Sections 7.1-7.5

Chapter 9 Sections 9.1 (omit sections 9.1.4 – 9.1.6), 9.2 – 9.4

Chapter 10 Sections 10.1 – 10.4

BOOKS FOR REFERENCE

J.P,Tremblay and R. Manohar. *Discrete Mathematical Structures with Applications to Computer Science*. New Delhi: Tata McGraw-Hill Publishing Company Limited, 2004.

D.S, Malik, and M.K.Sen. *Discrete Mathematics*, India: Binding House, Indian Edition, 2008.

Biggs, Norman L. *Discrete Mathematics*. India: Oxford University Press, Second Edition, 2003.

Grimaldi, Ralph P. and B.V. Ramana, *Discrete and Combinatorial Mathematics*, New Delhi: Dorling Kindersley (India) Pvt. Ltd., Fifth Edition, 2004.

Garnier, Rowan. and John Taylor, *Discrete Mathematics*, New Delhi: CRC Press, Special Indian Edition, Third Edition, 2011.

Sharma. *Discrete Mathematics*, Chennai: Macmillan India Ltd., 2003.

Sarkar, Swapan Kumar. *A textbook of Discrete Mathematics*, New Delhi: S. Chand and Company Ltd., 2004.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/DM43												
	Course Title: DISCRETE MATHEMATICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Sc. DEGREE: BRANCH I –MATHEMATICS
SYLLABUS
(Effective from the academic year 2023-2024)

MATHEMATICAL STATISTICS II

CODE: 23MT/AC/ST45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To gain a comprehensive understanding of basic concepts of sampling theory
- To understand point estimation and interval estimation concepts
- To learn the principles of ANOVA, including one-way and two-way classification and apply these techniques to analyze and compare means across multiple groups
- To acquire the skills to analyze time series data, including trend analysis, seasonal decomposition, and forecasting methods
- To select appropriate sampling methods for different types of data and research questions, and apply these methods effectively in practice

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the fundamental definitions and techniques employed in distributions and statistical tools	K1
CO2	demonstrate a comprehend understanding on statistical principles and their applications, especially in estimation, tests of significance, time series analysis, and analysis of variance	K2
CO3	apply sampling theory, time series analysis, ANOVA, and estimation methods to the given data, addressing practical problems and making appropriate decisions	K3
CO4	analyse real world data sets, trends and patterns in time series data, and perform comprehensive hypothesis tests, confidence intervals and ANOVA experiments, including the interpretation of data given	K4
CO5	evaluate the robustness of sampling procedures, estimation theory, time series models, ANOVA experiments, and their impact on the validity of statistical conclusions	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Sampling Theory 1.1 Introduction 1.2 Types of Sampling 1.3 Method of Drawing Random Sample 1.4 Sampling Distributions of Sample Mean and Sample Proportion Distributions used in Sampling Theory 1.5 Standard Normal Distribution, Chi-Square Distribution, Student's <i>t</i> -Distribution, Snedecor's <i>F</i> -Distribution 1.6 Relations between Standard Normal, Chi-Square, <i>t</i> , <i>F</i> -Distribution	K1-K5	13	CO1-5
2	Theory of Estimation 2.1 Introduction 2.2 Point Estimation- Criteria for Good Estimators 2.3 Methods of Point Estimation Interval Estimation 2.4 Introduction 2.5 Approximate Confidence Limits (Large Samples) 2.6 Exact Confidence Limits (any Sample Size)	K1-K5	13	CO1-5
3	Tests of Significance 3.1 Statistical Hypothesis – Level of Significance, Critical Region, One-Tailed and Two-Tailed Tests, Type I & II Errors, Power of a Test 3.2 Large Sample Tests 3.3 Chi-Square Test for Goodness of Fit 3.4 Test For Independence of Attributes 3.5 Yate's Correction 3.6 Small Sample Tests	K1-K5	14	CO1-5
4	Analysis of Variance 4.1 Introduction 4.2 Different Sources of variation 4.3 Technique in One-Way Classification 4.4 Locating Unequal Pairs of Means 4.5 Technique in Two-Way Classification	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
5	Time Series Analysis 5.1 Meaning and Necessity of Time Series 5.2 Components of Time Series 5.3 Secular Trend 5.4 Measurement of Trend 5.5 Seasonal Variation 5.6 Measurement of Seasonal Variation	K1-K5	13	CO1-5

BOOK FOR STUDY

N G, Das. *Statistical Methods Vol II*. New Delhi: Tata McGraw-Hill Publishing Company Limited, Second reprint, 2009.

Chapter 3 Sections 3.1 - 3.8 (omit 3.2, 3.7A)

Chapter 4 Sections 4.1 - 4.8

Chapter 5 Sections 5.1 - 5.7

Chapter 6 Sections 6.1 - 6.8 (Omit 6.6)

BOOKS FOR REFERENCE

D C, Sancheti and Kapoor V K, *Statistics Theory, Methods & Application*, New Delhi: S. Chand & Company Ltd, 2014.

I, Richard, et al. *Statistics for Management*. New Delhi: Prentice Hall, 2000.

S, Arumugam, and Issac A. *Statistics*. Palayamkottai: New Gamma Publishing House, 1999.

Subramaniam, N. *Probability and Statistics*. Erode: SCM, 2005.

WEB RESOURCES

<https://stattrek.com/regression/linear-regression.aspx>

<https://statistics.laerd.com/statistical-guides/hypothesis-testing.php>

<https://www.spss-tutorials.com/anova-what-is-it/>

<http://www.statsoft.com/textbook/time-series-analysis>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 Questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 Questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/ST45												
	Course Title: MATHEMATICAL STATISTICS II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	2	3	3	3	3	2
CO 2	3	3	3	3	2	2	2	2	3	3	3	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.Com (General) Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMMERCE

CODE: 23MT/AC/MT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts pertaining to the discipline of commerce
- To employ different techniques to solve problems pertaining to matrices, equations and LPP
- To appreciate the concept of numerical differentiation and integration as an alternate tool to solve problems on differentiation and integration
- To promote problem solving skills and quantitative analysis
- To model and solve real time problem using linear programming method

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall and define the basic mathematical concepts on matrices, equations, differentiation, integration and linear programming problem	K1
CO2	understand and compare the concepts relating to matrices, polynomials, numerical methods and linear programming problem	K2
CO3	utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CO4	analyse and examine the problem relating to the applications of matrices, differentiation, integration and optimization	K4
CO5	evaluate solutions to the problems related to matrices, equations, differentiation, integration and linear programming problem	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Matrices 1.1 Types of Matrices 1.2 Characteristic Equation of a Matrix 1.3 Cayley - Hamilton Theorem (without proof) 1.4 Eigen Values and Eigen Vectors 1.5 Diagonalization of 3×3 Matrices with Distinct Eigen Values	K1- K5	13	CO1-5
2	Theory of Equations 2.1 Formation and Solution of Equation with Imaginary and Irrational Roots 2.2 Relation between Roots and Coefficients 2.3 Solution of Equations under given Conditions 2.4 Symmetric Functions of the Roots of an Equation in terms of its Coefficients 2.5 Reciprocal Equations	K1-K5	14	CO1-5
3	Numerical Methods Algebraic and Transcendental Equations 3.1 The Bisection Method 3.2 Newton - Raphson Method Simultaneous Equations 3.3 Gaussian Elimination Method 3.4 Gauss Jordan Elimination Method 3.5 Gauss Jacobi Iteration Method 3.6 Gauss Seidal Iteration Method	K1-K5	13	CO1-5
4	Numerical Differentiation and Numerical Integration 4.1 Derivatives using Newton's forward difference Formula 4.2 Derivatives using Newton's backward difference Formula 4.3 Trapezoidal Rule 4.4 Simpson's One Third Rule 4.5 Simpson's Three Right Rule	K1-K5	12	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
5	Linear Programming Problem 5.1 General L.P.P. 5.2 Canonical and Standard Forms of L.P.P. 5.3 The Simplex Algorithm 5.4 The Big-M method	K1-K5	13	CO1-5

BOOKS FOR STUDY

S, Arumugam, et al. *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017.

Chapter 3 Sections 3.3, 3.5

Chapter 4 Sections 4.3, 4.4, 4.7, 4.8

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to concepts only)

V, Sundaresan, et al. *Resource Management Techniques*. Chennai: A.R. Publications, 2014.

Chapter 3 Sections 3.1.1 – 3.1.4, 3.2.1

S G, Venkatachalapathy. *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016.

Chapter 5: Pages 5.1 – 5.32

Chapter 6: Pages 6.3 – 6.13, 6.36 – 6.57

BOOKS FOR REFERENCE

A, Abdul Rasheed. *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008.

S, Kalavathy. *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

S, Sankarappan, et al. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

WEB RESOURCES

<https://youtu.be/w8i89ftfZPI?si=HlaO4tYZ9ge9zPsx>

https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SMT1302.pdf

<https://www.math.ucla.edu/~tom/LP.pdf>

<http://www.math.iitb.ac.in/~baskar/book.pdf>

<http://ncert.nic.in/ncerts/l/lemh206.pdf>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MT45												
	Course Title: MATHEMATICS FOR COMMERCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	2	2	1	1
CO 2	3	3	3	3	2	2	1	1	3	2	2	1	1
CO 3	3	3	3	3	3	3	1	1	3	2	2	1	1
CO 4	3	3	3	3	3	3	1	1	3	2	2	1	1
CO 5	3	3	3	3	3	3	1	1	3	2	2	1	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMPUTER SCIENCE II

CODE: 23MT/AC/MS45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the fundamental concepts of discrete and continuous probability distributions
- To perform hypothesis tests and make inferences about population parameters based on sample data
- To determine whether there is a statistically significant association or relationship between two categorical variables by conducting a Chi-Square test of independence
- To analyze the relationships between variables using correlation and regression analysis, and make predictions based on regression models
- To assess significant differences between means using Analysis of Variance

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

Cos	Description	CL
CO1	define and recall the basic statistical tools and techniques available to study any given data	K1
CO2	understand the core principles and terminology of statistics, including population, sample and distribution functions	K2
CO3	apply the knowledge and extract meaningful insights and patterns from data, enabling informed decision-making	K3
CO4	examine and interpret data through rigorous statistical methods and techniques	K4
CO5	develop problem-solving skills by using statistical methods to address complex and multifaceted issues in real life	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Theoretical Distributions 1.1 Binomial Distribution 1.2 Properties of Binomial Distribution 1.3 Fitting of Binomial Distribution 1.4 Normal Distribution 1.5 Characteristics of the Normal Curve	K1-K5	13	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Tests of Significance 2.1 Testing of Hypothesis 2.2 Tests of Significance for Attributes 2.3 Tests of Significance for Large Samples 2.4 Tests of Significance for Difference between Means of two Samples	K1-K5	15	CO1-5
3	Chi-Square Test 3.1 Characteristics and Assumptions 3.2 Goodness of Fit 3.3 Test of Independence	K1-K5	12	CO1-5
4	Correlation and Regression 4.1 Correlation and Causation 4.2 Types of Correlation 4.3 Karl Pearson's Coefficient of Correlation 4.4 Correlation of Grouped Bi-variate Data 4.5 Regression 4.6 Difference between Correlation and Regression 4.7 Methods of Studying Regression – Algebraic Method	K1-K5	13	CO1-5
5	Analysis of Variance 5.1 Basic Designs of Experiment 5.2 One Way Classification 5.3 Two Way Classification	K1-K5	12	CO1-5

BOOKS FOR STUDY

R. S. N. Pillai, and Bagavathi, *Statistics – Theory and Practice*. 7th Revised Edition, New Delhi: S. Chand & Company Limited, 2012.

Chapter 19 Pages 769 – 781, 787 - 800

Chapter 20 Pages 812 – 831

Chapter 21 Pages 847 – 854

Chapter 12 Pages 396 – 410

Chapter 13 Pages 465 – 470 (exclude graphic method)

A Chandrasekaran, et al. *A Textbook of Applied Statistics*, 1st edition, Chennai: Dhanam Publications, 2019.

Chapter 4 Pages 4.1 – 4.36

BOOKS FOR REFERENCE

Y. P Agarwal, *Statistical Methods, Concepts, Applications and Computations*. New Delhi: Sterling, 2006.

S. P. Gupta, *Statistical Methods*. New Delhi: Sultan Chand, 2007.

R.S.N. Pillai, Bagavathi, *Practical Statistics*. Second Edition. New Delhi: S.Chand & Co. Ltd. 2003.

D.C. Sancheti and Kapoor V. K., *Statistics: Theory, Methods & Application.*, New Delhi: S. Chand & Company Ltd, 2014.

T. Veerarajan, *Fundamentals of Mathematical Statistics*. Chennai: Yes Dee Publishing Pvt. Ltd. 2017.

P. R. Vittal, *Mathematical Statistics*. Chennai: Margham Publications Pvt. Ltd., 2002.

WEB RESOURCES

http://onlinestatbook.com/Online_Statistics_Education.pdf

<https://statisticsbyjim.com/basics/normal-distribution/>

www.amstat.org/

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC374386/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MS45												
	Course Title: MATHEMATICS FOR COMPUTER SCIENCE II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	2	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Sc. DEGREE: BRANCH I –MATHEMATICS
SYLLABUS
(Effective from the academic year 2023-2024)

VECTOR ANALYSIS AND APPLICATIONS

CODE: 23MT/MC/VA53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To familiarize the concept of magnitude and direction of a vector quantity
- To introduce the concept of vector differentiation and vector integration
- To discover the various scalar and vector differential operators
- To apply vector integration to evaluate line, surface and volume integrals
- To establish the relations between Gauss divergence, Green's and Stoke's theorem

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	understand the basic definitions of vector differentiation and vector integration	K1
CO2	explain and illustrate the concepts of vector differential operators and its geometrical significance	K2
CO3	apply the concepts of vector differentiation and vector integration to solve problems	K3
CO4	analyse the properties of vector differential operators and to classify line, surface and volume integral problems	K4
CO5	evaluate and describe the importance of integral theorems through the concepts studied	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Vector Differentiation 1.1 Scalar and Vector Point Functions 1.2 Level Surfaces 1.3 Directional Derivative of a Scalar Point Function 1.4 Gradient of a Scalar Point Function 1.5 Gradient of a Vector Point Function	K1-K5	11	CO1-5
2	Divergence and curl 2.1 Divergence and Curl of a Vector Point Function 2.2 Laplacian Differential Operator 2.3 Divergence and Curl of a Gradient 2.4 Divergence and Curl of a Curl	K1-K5	10	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
3	Vector Integration 3.1 Line Integrals 3.2 Independence of Path of Integration 3.3 Conservative Field and Scalar Potential 3.4 Line Integral of a Conservative Vector	K1-K5	11	CO1-5
4	Surface and Volume Integrals 4.1 Surface Integrals 4.2 Volume Integrals 4.3 Cylindrical and Spherical Polar Coordinates	K1-K5	10	CO1-5
5	Integral Theorems 5.1 Integral Theorems 5.2 Gauss' Divergence Theorem(Statement Only) 5.3 Integral Theorems Derived from the Divergence Theorem 5.4 Green's Theorem in Plane (Statement Only) 5.5 Stoke's Theorem (Statement Only) 5.6 Integral Theorems Derived from Stoke's Theorem	K1-K5	10	CO1-5

BOOK FOR STUDY

P, Duraipandian and Pachaiyappa K. *Vector Analysis*. New Delhi: S. Chand & Company Pvt. Ltd., first edition, 2014, Reprint 2015.

Chapter 2 2.1 – 2.13

Chapter 3 3.1 – 3.8

Chapter 4 4.1 - 4.6

BOOKS FOR REFERENCE

Lipschutz, Seymour, et al. *Vector Analysis and an Introduction to Tensor Analysis (Second Edition)* *Schaum's Outline Series*. New Delhi: Tata McGraw Hill, 2009

Narayanan, S, and Manicavachagom Pillay T K. *Vector Algebra and Analysis*, Chennai: S. Viswanathan Publishers and Printers, 2006

Narayan, Shanti, and P K Mittal. *A Textbook of Vector Analysis*, New Delhi: S. Chand & Company Limited, 2021.

Prasun Kumar Nayak. *Vector Algebra and Analysis with Applications*. Hyderabad: Universities Press Pvt. Ltd., 2017

Shaikh, Absos Ali, and Sanjib Kumar Jana, *Vector Analysis with Applications*, Narosa publishing House, 2009

Shalini Singh. *Vector Calculus*. New Delhi: Sarup & Sons, 2013.

WEB RESOURCES

<https://www.khanacademy.org/math/multivariable-calculus/integrating-multivariable-functions/line-integrals-in-vector-fields/articles/a/line-integrals-in-a-vector-field>

<https://math24.net/geometric-applications-line-integrals.html>

https://mathinsight.org/surface_integral_vector_field_introduction

<https://www.khanacademy.org/math/multivariable-calculus/integrating-multivariable-functions/triple-integrals-topic/a/triple-integrals>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/MC/VA53												
	Course Title: VECTOR ANALYSIS AND APPLICATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ALGEBRAIC STRUCTURES

CODE: 23MT/MC/AS55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce the concepts of basic algebraic structures
- To understand the development of algebraic structures
- To solve problems related to the concept of rings and fields
- To analyze various algebraic structures and their concepts
- To illustrate the importance of abstract algebra in applied mathematics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	C
CO1	define and recall the basic concepts of algebraic structures	K1
CO2	understand the concepts of groups, rings and fields	K2
CO3	apply appropriate methods to solve related problems in abstract algebra	K3
CO4	analyze and examine the concepts of groups and rings through illustrations and examples	K4
CO5	prove the concepts of groups, rings and fields and evaluate the related problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Group Theory 1.1 Elementary Properties of Groups 1.2 Finite Groups 1.3 Subgroups 1.4 Cyclic Groups – Properties, Classification of Subgroups of Cyclic Groups	K1-K5	15	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Permutation Groups 2.1 Cycle Notation 2.2 Properties of Permutations Isomorphisms 2.3 Cayley's Theorem 2.4 Properties of Isomorphisms 2.5 Automorphisms	K1-K5	15	CO1-5
3	Cosets and Lagrange's Theorem 3.1 Properties of Cosets 3.2 Lagrange's Theorem and Consequences 3.3 An Application of Cosets to Permutation Groups Normal Subgroups and Factor Groups 3.4 Normal Subgroups 3.5 Factor Groups	K1-K5	16	CO1-5
4	Group Homomorphism 4.1 Properties of Homomorphisms 4.2 The First Isomorphism Theorem Ring Theory 4.3 Properties of Rings 4.4 Subrings 4.5 Integral Domains 4.6 Fields 4.7 Characteristic of a Ring	K1-K5	16	CO1-5
5	More on Ring Theory 5.1 Ideals and Factor Rings 5.2 Prime Ideals and Maximal Ideals 5.3 Ring Homomorphisms 5.4 Properties of Ring Homomorphisms 5.5 Field of Quotients	K1-K5	16	CO1-5

BOOK FOR STUDY

Gallian, Joseph A. *Contemporary Abstract Algebra*. New Delhi: Cengage Learning, Eighth Edition, Reprint 2016.

Chapters 2 – 7, 9 – 10, 12 – 15, 27 (Pages 42-91, 99-112, 118-152, 185-192, 208-221, 245-293 only)

BOOKS FOR REFERENCE

Arora, Kishore. *Concepts and Applications of Group Theory*. New Delhi: Anmol Publications Pvt. Ltd., 2003.

Chatterjee, Dipak. *Abstract Algebra*. 2nd ed., New Delhi: Prentice Hall of India, 2005.

I.N, Herstein. *Topics in Algebra*. 2nd ed., New Delhi: Wiley, 2007, Reprint 2017.

McCoy, Neal H. and Gerald Janusz J. *Introduction to Abstract Algebra*. 6th ed., New Delhi: Academic Press, 2005.

M.L. Santiago. *Modern Algebra*. New Delhi: Tata McGraw-Hill, 2001.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50
Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/AS55												
	Course Title: ALGEBRAIC STRUCTURES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF REAL ANALYSIS

CODE: 23MT/MC/RA55

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enhance the knowledge of abstract mathematics on the real line and metric spaces
- To describe the fundamental properties of the real numbers that underpin the formal development of real analysis
- To demonstrate skills in constructing rigorous mathematical arguments for proving connected, bounded, complete and compact metric spaces
- Apply the theory to solve a variety of problems at an appropriate level of difficulty
- To introduce the concepts of Riemann Integration and analyze its properties

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	define and recall the abstract mathematical concepts on the real line and metric spaces	K1
CO2	illustrate the theoretical concepts using relevant examples	K2
CO3	identify potential solutions to problems involving limit, continuity, uniform continuity, convergence, derivatives and integration	K3
CO4	analyse the abstract concepts and choose appropriate methods for proving the theoretical results	K4
CO5	compare the various methods in mathematical analysis that can be applied to evaluate analytical problems	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Limits and Continuity on \mathbb{R}^1 1.1 Limit of a Function on the Real Line 1.2 Functions Continuous at a Point on the Real Line 1.3 Reformulation Metric Spaces 1.4 Definitions with Examples	K1- K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Limits and Continuity on Metric Spaces 2.1 Limits in Metric Spaces 2.2 Functions Continuous on a Metric Space 2.3 Open Sets 2.4 Closed Sets	K1- K5	14	CO1-5
3	Connectedness and Completeness on Metric Spaces 3.1 Connected Sets 3.2 Bounded Sets and Totally Bounded Sets 3.3 Complete Metric Spaces	K1- K5	12	CO1-5
4	Compactness on Metric Spaces 4.1 Compact Metric Spaces 4.2 Continuous Functions on a Compact Metric Space 4.3 Continuity of an Inverse Function 4.4 Uniform Continuity	K1- K5	12	CO1-5
5	Riemann Integration 5.1 Definition of the Riemann Integral 5.2 Properties of the Riemann Integral 5.3 Derivatives 5.4 Rolles' Theorem 5.5 The Law of the Mean 5.6 Fundamental Theorem of Calculus	K1- K5	15	CO1-5

BOOK FOR STUDY

Goldberg Richard R, *Methods of Real Analysis*. Indian Edition. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd. , 1970, Reprint 2017.

Chapter 4	Sections 4.1 – 4.3
Chapter 5	Sections 5.1 – 5.5
Chapter 6	Sections 6.1 – 6.8
Chapter 7	Sections 7.2, 7.4 - 7.8

BOOKS FOR REFERENCE

Brian S.Thomson, et al., *Elementary Real Analysis*. USA: Prentice Hall, 2001.

Kumar Ajit, S Kumarasan, *A Basic Course in Real Analysis*. USA: CPC Press 2014.

A. Kumar, S. Kumaresan, *A Basic Course in Real Analysis*. USA: CRC Press, 2014.

Mainak Mukherjee, *A Course in Real Analysis*. New Delhi: Narosa Publishing House, 2011.

S C Malik, *Principles of Real Analysis*. Third edition. New Delhi: New Age International Pvt. Ltd., 2011.

Nader Vakil, *Real Analysis through Modern Infinitesimals*. New Delhi: Cambridge University Press, 2011.

Shanti Narayan, M.D.Raisinghania, *Elements of Real Analysis*. New Delhi: S. Chand & Company Limited, eighth revised edition 2007.

WEB RESOURCES

http://ramanujan.math.trinity.edu/wtrench/texts/TRENCH_REAL_ANALYSIS.PDF

<http://www.personal.psu.edu/dpl14/java/calculus/limits.html>

<https://www.math.stonybrook.edu/~aknapp/download/b2-realanal-inside.pdf>

<https://www.jirka.org/ra/realanal.pdf>

<https://www.isid.ac.in/~tridip/Teaching/MathEco/LectureNotes/05RealAnalysisBasicConcepts.pdf>

<http://www.freebookcentre.net/Mathematics/Real-Analysis-Books.html>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/RA55												
	Course Title: PRINCIPLES OF REAL ANALYSIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

INTEGRAL TRANSFORMS

CODE: 23MT/MC/IT54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To develop an understanding of the basic types of integral transforms
- To apply the concepts of Laplace transforms in evaluating integrals and solving differential equations
- To apply Laplace transforms to solve differential equations and Z-transform to solve difference equations
- To analyze the various concepts of Laplace, Fourier and Z-transforms
- To solve difference equations using Z-transforms

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the suitable techniques of differential and integral calculus and concepts of differential equations to solve Laplace, Fourier and Z-transforms	K1
CO2	understand the concepts involved in Laplace, Fourier and Z-transforms	K2
CO3	apply the concepts of the integral transforms under study to solve problems of differential and difference equations	K3
CO4	analyse the problems based on Laplace, Fourier and Z-transforms	K4
CO5	evaluate Laplace, Fourier and Z-transforms of various functions using the appropriate methods	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Laplace Transform 1.1 Definition of Laplace Transform 1.2 Laplace Transform of e^{at} , $\cos at$, $\sin at$ and t^n , where n is a Positive Integer	K1- K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	1.3 Laplace Transform of Periodic Functions 1.4 Some General Theorems 1.5 Evaluation of Integrals using Laplace Equations 1.6 Inverse Laplace Transform			
2	Application of Laplace Transform to Differential Equations 2.1 Laplace Transform to Solve System of Differential Equations with Constant Coefficient 2.2 Laplace Transform to Solve Ordinary Differential Equations with Variable Coefficients 2.3 Laplace Transform to solve Differential Equations Involving Integrals 2.4 Laplace Transform to Evaluate Certain Integrals	K1- K5	14	CO1-5
3	Fourier Transforms 3.1 Definition of Fourier Transforms, Fourier Cosine Transform & Fourier Sine Transform 3.2 Alternative Form of Fourier Complex Integral Formula 3.3 Relationship between Fourier Transform and Laplace Transform 3.4 Properties of Fourier Transforms	K1- K5	12	CO1-5
4	Z-Transforms 4.1 Definition of Z-Transforms 4.2 Properties of Z-Transforms 4.3 Z-Transforms of Some Basic Functions	K1- K5	13	CO1-5
5	Inverse Z-Transforms 5.1 Inverse Z-Transforms 5.2 Evaluation of Inverse Z-Transforms using Expansion Method, Long Division Method - Partial Fractions Method - by Cauchy's Residue Theorem 5.3 Formation of Difference equations and Use of Z-Transform to Solve them	K1- K5	14	CO1-5

BOOKS FOR STUDY

Narayanan, S, and T. K. Manicavachagam Pillay. *Calculus - Volume III*. S. Chennai : Viswanathan Publishers, 2022.

Chapter 5 Sections 1 – 12

T, Veerarajan. *Transforms and Partial Differential Equations*. New Delhi: McGraw Hill Education, India Private Limited, 2016.

Chapter 4 Sections 4.1 – 4.6

Chapter 5 Sections 5.1 – 5.5

BOOKS FOR REFERENCE

A. R, Vasishtha and R K Gupta. *Integral Transforms*, Meerut: Krishna Prakashan Mandir, 1972.

Donald, A. McQuarrie. *Mathematical Methods for Scientists & Engineers*, New Delhi: Viva Books Pvt.Ltd., 2009.

Erwin, Kreyszig. *Advanced Engineering Mathematics*, 8th Edition, Wiley India, 2006.

Patra, Baidyanath. *An Introduction to Integral Transforms*, India: Levant Book, 2016.

S, Sankarappan, et al. *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

WEB RESOURCES

https://www.tutorialspoint.com/signals_and_systems/fourier_transforms.htm

<https://www.rfwireless-world.com/Terminology/Z-Transform-vs-Inverse-Z-Transform.html>

<https://lpsa.swarthmore.edu/ZXform/InvZXform/InvZXform.html>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/IT54												
	Course Title: INTEGRAL TRANSFORMS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	2
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Interdisciplinary Core Course offered by the Departments of Mathematics and
Computer Science to B.Sc. Mathematics Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS THROUGH SCIENTIFIC SOFTWARE

CODE: 23ID/IC/MS55

CREDITS: 5

L T P: 1 0 5

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce software tools for implementing mathematical concepts
- To acquire proficiency in using different functions of Python to compute solutions of basic mathematical and statistical problems
- To demonstrate the use of Python and Excel to solve equations along with visualizing the solutions
- To acquire skill in choosing the suitable libraries of Python to solve problems on mathematical modeling
- To develop simple functions for handling problems involving mathematics and statistics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	understand the basics of spreadsheet and Python	K1
CO2	acquire the knowledge of various built in library functions for expressing and solving mathematical problems in Excel and Python	K2
CO3	apply the software tools for implementing Mathematical concepts and obtain solutions	K3
CO4	evaluate different types of formulas and functions available in Excel and Python to determine the best one for a given set of data.	K4
CO5	build user-defined functions for simple applications using Python and Excel	K5

UNIT	CONTENT	CL	Hrs	CO
1	Microsoft Excel 1.1 Introduction to Excel : Navigation and Selecting - View Options - Data Entry, Data Types, Editing and Deleting - Fill Handle 1.2 Formulas - Functions : Autosum, Sum, Average, Max, Min, Count, CountIF, SumIF, AverageIF	K1 - K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	1.3 Creating Named Ranges and Constants - Absolute and Cross Reference 1.4 Formatting - Borders - Alignment tools - Number Formats - Format Painter - Styles and Themes 1.5 Managing Rows & Columns - Find & Replace 1.6 Filtering - Sorting - Conditional Formatting - Data Validation			
2	Advance Excel Options 2.1 Importing Data - Data Cleaning 2.2 Database functions : dsum, daverage, dmax, dmin, dcount, VLOOKUP, HLOOKUP 2.3 Printing : Preview, Orientation, Margin and Scale, Page Break, Print Titles, Header and Footer 2.4 Charts: Chart Types, Move and Resize Chart, Changing Chart Styles and Chart Elements 2.5 Pivot Table - Freeze Panes 2.6 Form Controls 2.7 Macros - Solver - Goal Seek	K1 - K5	13	CO1-5
3	Python Basics 3.1 Variables, Reserved words, Comments, Formatting Text and Numbers 3.2 User Defined Functions 3.3 Looping and Branching 3.4 Importing Standard Mathematical Functions 3.5 Basic Mathematical Operations, Different Kinds of Numbers, Working with Fractions, Complex Numbers 3.6 Getting User Input, Fractions and Complex Numbers as Input	K1 - K5	18	CO1-5
4	Mathematics with Python using NumPy and SymPy 4.1 Creating Vectors, Lists, Arrays, Scalars and Matrices 4.2 Arithmetic Operations on Matrices, Eigen Values & Eigen Vectors 4.3 Solving System of Equations 4.4 Working with Expressions, Factorizing and Expanding Expressions, Substituting in Values 4.5 Converting Strings to Mathematical Expressions	K1 - K5	17	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	4.6 Solving Quadratic Equations, Solving for One Variable in Terms of Others, Solving a System of Linear Equations. 4.7 Plotting Expressions Input by the User, Plotting Multiple Functions			
5	Statistics Using Python 5.1 Analyzing Data: Mean, Median, Mode, Frequency Table, Measuring the Dispersion, Variance, Standard Deviation, Correlation, Scatter Plot 5.2 Visualizing Data with Graphs – Understanding the Cartesian Coordinate Plane, Creating Graphs with Matplotlib, Customizing Graphs 5.3 Reading Data: Reading Data from a Text File, Reading Data from a CSV file, Creating a Grouped Frequency Table from a Data File	K1 - K5	17	CO1-5

BOOKS FOR STUDY & REFERENCE

Curtis, D. Frye. *Microsoft Excel 2013*, Step by Step. 2013.

Greg Harvey, John, *Excel for Dummies*, Wiley & Sons, Inc, 2018.

Langtangen, Hans Petter. *A Primer on Scientific Programming with Python*, 5th edition, Springer Nature, 2016.

Saha, Amit. *Doing Math with Python: Use Programming to Explore Algebra, Statistics, Calculus, and More*, No Starch Press, Inc., San Francisco, 2015.

Winston, Wayne. *Microsoft Excel data analysis and business modeling*. Microsoft press, 2016.

WEB RESOURCES

<https://blog.hubspot.com/marketing/microsoft-excel>

<https://www.sgul.ac.uk/about/our-professional-services/information-services/library/documents/training-manuals/Excel-Fundamentals-Manual.pdf>

<https://www.w3resource.com/python-exercises/>

<https://www.geeksforgeeks.org/what-is-symbolic-computation-in-sympy/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Theory Pattern

Section	Cognitive Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (5 MCQ to be set) [2(Excel)+3(Python)]
B	K2	5	$5 \times 1 = 5$ (5 MCQ to be set) [2(Excel)+3(Python)]

Practical Pattern

Section	Cognitive Level	Marks	Pattern
C	K3	20	$1 \times 20 = 20$ (2 questions to be set) [Excel - 1, Python - 1]
D	K4	10	$1 \times 10 = 10$ (2 questions to be set) [CA1 - Excel, CA2 - Python]
E	K5	10	$1 \times 10 = 10$ (2 questions to be set) [CA1 - Python, CA2 - Excel]

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100

Duration: 3 hours

(Question paper to be prepared jointly by one course teacher and one internal–external examiner)

Theory Pattern

Section	Cognitive Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ [10 MCQ to be set with 4(Excel)+6(Python)]
B	K2	10	$10 \times 1 = 10$ [10 MCQ to be set with 4(Excel)+6(Python)]

Practical Pattern

Section	Cognitive Level	Marks	Pattern
C	K3	40	$2 \times 20 = 40$ (3 questions to be set) [Excel - 1, Python - 2]
D	K4	20	$2 \times 10 = 20$ (internal choice) [Excel - 1, Python - 1]
E	K5	20	$2 \times 10 = 20$ (internal choice) [Excel - 1, Python - 1]

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/MS55												
	Course Title: MATHEMATICS THROUGH SCIENTIFIC SOFTWARE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Sc. DEGREE: BRANCH I –MATHEMATICS
SYLLABUS
(Effective from the academic year 2023-2024)

VECTOR SPACES AND LINEAR TRANSFORMATIONS

CODE: 23MT/MC/VL64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce basic concepts of vector spaces, inner product spaces and linear transformations
- To develop an understanding of linear algebraic structures
- To enable understanding of the concept of linear transformations and their matrix representation
- To illustrate the importance of linear algebra in applied mathematics
- To interpret the concepts in inner product space to solve problems in applicable areas

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall and define basic concepts in vector spaces and linear transformations	K1
CO2	understand the concepts pertaining to vector spaces, linear transformation and inner product spaces	K2
CO3	apply appropriate method to solve related problems in linear algebra	K3
CO4	analyse and examine the concepts of linear algebra through illustrations and examples	K4
CO5	establish the concepts of vector spaces, linear transformation and inner product spaces and evaluate the related problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Vector Spaces 1.1 General Vector Spaces and Subspaces 1.2 Linear Combinations 1.3 Linear Dependence and Independence 1.4 Properties of Bases	K1-K5	13	CO1-5
2	Rank and Orthogonalization of Vectors 2.1 Rank 2.2 Orthonormal Vectors and Projections 2.3 Gram-Schmidt Orthogonalization Process 2.4 Kernel, Range and the Rank-Nullity Theorem	K1-K5	13	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
3	Transformations 3.1 Matrix Transformations, Rotations and Dilations 3.2 One-to-one Transformations and Inverse Transformations 3.3 Transformations and Systems of Linear Equations	K1-K5	13	CO1-5
4	Coordinate Representations 4.1 Coordinate Vectors 4.2 Change of Basis 4.3 Matrix Representations of Linear Transformations 4.4 Importance of Matrix Representation 4.5 Diagonalization of Matrices 4.6 Diagonalization of Symmetric Matrices – Orthogonal Diagonalization 4.7 Diagonal Matrix Representation of a Linear Operator	K1-K5	13	CO1-5
5	Inner Product Spaces 5.1 Inner Product 5.2 Norm of a Vector 5.3 Orthogonal Vectors 5.4 Approximation of Functions and Coding Theory 5.5 Least Squares Curves	K1-K5	13	CO1-5

BOOK FOR STUDY

Williams, Gareth, *Linear Algebra with Applications*. 9th Edition, USA: Jones & Barlett Learning, 2019.

Chapter 2 Section 2.5
Chapter 4 Sections 4.1 – 4.10
Chapter 5 Sections 5.1 – 5.3
Chapter 6 Sections 6.1, 6.3, 6.4

BOOKS FOR REFERENCE

I.N, Herstein. *Topics in Algebra*. Wiley Publishing Company, 2017.

Lang, Serge. *Algebra*. Springer Publishers, 2004.

Strang, Gilbert. *Linear Algebra and its Applications*. Singapore: Thomas Asia Pvt. Ltd., 2003.

Stroud, K.A. and Dexter Booth. *Linear Algebra*. New York: Industrial Press, 2008.

WEB RESOURCES

<https://www.math.ucla.edu/~tao/resource/general/115a.3.02f/>

https://www.robots.ox.ac.uk/~cvrg/michaelmas2007/carl_cvrg.pdf

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment: Total Marks: 50 Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/VL64												
	Course Title: VECTOR SPACES AND LINEAR TRANSFORMATIONS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF COMPLEX ANALYSIS

CODE: 23MT/MC/CA65

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce the theory and properties for functions of a complex variable and its transformation for special functions.
- To realize the mapping in the complex plane through linear fractional transformations.
- To understand the concepts of analyticity and complex integration
- To apply appropriate techniques proper and definite integrals and generating power series
- To expose a fertile area of pure mathematics as a source of powerful technique that are widely applied in sciences and advanced Engineering mathematics

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall and define basic concepts in complex valued functions	K1
CO2	demonstrate understanding of different techniques to solve basic problems in complex analysis	K2
CO3	apply the fundamental principles and theoretical concepts of complex analysis in problem solving	K3
CO4	analyze various techniques to classify analytic functions and to solve problems	K4
CO5	evaluate and interpret mathematical arguments and proofs in complex analysis	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyze K5 – Evaluate		

UNIT	CONTENT	CL	Hrs.	CO
1	Analytic Functions 1.1 Functions of a Complex Variable 1.2 Continuity 1.3 Derivatives 1.4 Cauchy-Riemann Equations 1.5 Sufficient Conditions for Differentiability	K1-K5	15	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	1.6 Polar Coordinates 1.7 Analytic Functions 1.8 Harmonic Functions 1.9 Harmonic Conjugates			
2	Mapping by Elementary Functions 2.1 Linear Transformations 2.2 The Transformation $w = \frac{1}{z}, \sin z$ 2.3 Linear Fractional Transformations Conformal Mapping 2.4 Preservation of Angles 2.5 Scale Factors Applications of Conformal Mapping 2.6 Two-dimensional Fluid Flow 2.7 The Stream Function 2.8 Flows around a Corner and around a Cylinder	K1-K5	15	CO1-5
3	Integrals 3.1 Cauchy-Goursat Theorem 3.2 Simply Connected Domains 3.3 Multiply Connected Domains 3.4 Cauchy Integral Formula 3.5 An Extension of the Cauchy Integral Formula 3.6 Some Consequences of the Extension 3.7 Liouville's Theorem and the Fundamental Theorem of Algebra 3.8 Maximum Modulus Principle	K1-K5	16	CO1-5
4	Series 4.1 The Three Types of Isolated Singular Points 4.2 Isolated Singular Points 4.3 Residues at Poles 4.4 Zeros of Analytic Functions 4.5 Zeros and Poles 4.6 Taylor Series 4.7 Laurent Series	K1-K5	16	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	Elementary Functions 4.8 The Logarithmic Function 4.9 Branches and Derivatives of Logarithms			
5	Residues and Poles 5.1 Cauchy's Residue Theorem 5.2 Residue at Infinity Applications of Residues 5.3 Evaluation of Improper Integrals 5.4 Definite Integrals Involving Sines and Cosines 5.5 Argument Principle 5.6 Rouché's Theorem	K1-K5	16	CO1-5

BOOK FOR STUDY

Brown J.W. and Churchill R.V., *Complex Variables and Applications*. McGraw Hill Publishers, 2022.

Chapter 2	Sections 13, 18, 19, 21 - 27
Chapter 3	Sections 31 - 33
Chapter 4	Sections 50 - 59
Chapter 5	Sections 62-64, 66-68
Chapter 6	Sections 74-76, 77 (concepts and problems only), 78-83
Chapter 7	Sections 85, 92-94
Chapter 8	Sections 96 – 100, 104, 105
Chapter 9	Sections 112, 113, 115
Chapter 10	Sections 124 - 126 (concepts and examples only)

BOOKS FOR REFERENCE

Arumugam S., A.T. Issac, and A. Somasundaram. *Complex Analysis*, Scitech Publishers, 2019.

Dennis G Zill, *First Course in Complex Analysis With Applications*, Jones and Bartlett Publishers, 2010.

Karunakaran, V., *Complex analysis*, Narosa Publishers, 2005.

Kreyszig, Erwin, *Advanced Engineering Mathematics*, Wiley India Pvt. Ltd., 2006.

Mathews John H. and Howell, Russell W., *Complex Analysis for Mathematics and Engineering*, Narosa Publishers, 2006.

WEB RESOURCES

http://www.malinc.se/math/geogebra/complex_numbersen.php

<https://www.open.edu/openlearn/science-maths-technology/introduction-complex-analysis/content-section-overview?active-tab=content-tab>

https://onlinecourses.nptel.ac.in/noc23_ma51/preview

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/MC/CA65												
	Course Title: PRINCIPLES OF COMPLEX ANALYSIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

PRINCIPLES OF MECHANICS

CODE: 23MT/MC/PM65

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the concept of different forces and moments and their equilibrium with reference to a coordinate system
- To deal with parallel forces, couples and equilibrium of coplanar forces
- To widen the appreciation of the variety of phenomena covered by mechanics such as friction and demonstrate its application in real life
- To determine the moment of inertia of some standard bodies and discuss the equilibrium of a uniform cable hanging freely under its own weight
- To explain and analyze the motion of a particle in a resisting medium

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall and define the motion and equilibrium of objects in different frames of references	K1
CO2	understand and recognize the different concepts of statics and dynamics applied in real life	K2
CO3	apply the mathematical abstractions to solve physical problems	K3
CO4	analyse mechanical problems as mathematical models and examine their behaviours and properties	K4
CO5	formulate and construct mechanical models and demonstrate its application to cater real life problems	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Forces acting on a Particle – Concurrent Forces 1.1 Forces 1.2 Types of Forces 1.3 Parallelogram Law of Forces 1.4 Triangle Law of Forces	K1- K5	15	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	1.5 Polygon Law of Forces 1.6 Lami's Theorem 1.7 Conditions of Equilibrium of any Number of Forces acting on a Particle			
2	Non-Concurrent Coplanar Forces 2.1 Moment of a Force about a Point and a Line 2.2 Parallel Forces 2.3 Varignon's Theorem 2.4 Couples 2.5 Properties of Couples 2.6 Coplanar Forces 2.7 Reduction of any Coplanar System of Forces 2.8 Conditions of Equilibrium 2.9 Equilibrium of Three Forces acting on a Rigid Body	K1- K5	17	CO1-5
3	Friction 3.1 Laws of Static Friction 3.2 Coefficient of Friction 3.3 Angle of Friction 3.4 Cone of Friction 3.5 Law of Kinetic Friction 3.6 Equilibrium of a Particle on an Inclined Plane 3.7 Condition for Sliding and Toppling	K1- K5	15	CO1-5
4	Equilibrium of Strings and Chains 4.1 Equilibrium of Strings and Chains 4.2 Common Catenary 4.3 Suspension Bridge Motion in a Resisting Medium 4.4 Motion in Resisting Medium in a Horizontal Line 4.5 Motion in Resisting Medium in a Vertical Line 4.6 Terminal Velocity 4.7 Motion in a Medium whose Resistance Varies as the Velocity	K1- K5	16	CO1-5

UNIT	CONTENT	CL	Hrs	CO
	4.8 Motion in a Medium whose Resistance Varies as the Square of the Velocity			
5	Moment of Inertia 5.1 Moment of Inertia 5.2 Radius of Gyration 5.3 Perpendicular Axis Theorem 5.4 Moment of Inertia of Standard Bodies 5.5 Parallel Axis Theorem	K1- K5	15	CO1-5

BOOKS FOR STUDY

A. V. Dharmapadam, *Statics*. Chennai: S. Viswanathan, 2006.

Chapter 1 Sections 1.1 – 1.3

Chapter 2 Sections 2.1 – 2.10, 2.12 – 2.14

Chapter 3 Sections 3.1 – 3.8

Chapter 5 Section 5.1 – 5.3

M. D. Raisinghania, *Dynamics*. New Delhi: S. Chand, 2006.

Chapter 12 Sections 12.1 – 12.4

Chapter 14 Sections 14.1 – 14.4, 14.9

BOOKS FOR REFERENCE

A.V. Dharmapadam, *Dynamics*. Chennai: S. Viswanathan, 2006.

P Duraipandian, et al., *Mechanics*, New Delhi: S.Chand, 2018.

H S Hans, *Mechanics*. New Delhi: Tata McGraw, 2003.

S L Kakani, *Mechanics*. New Delhi: Viva, 2005.

Pandit Ashok S. *Mechanics*. New Delhi: Narosa, 2001.

P.R. Vittal, *Statics*. Margham Publications, Chennai, 2008.

WEB RESOURCES

<https://physics.gurumuda.net/moment-of-force-problems-and-solutions.html>

https://www.iit.edu/arc/workshops/pdfs/Moment_Inertia.pdf

<http://www.physicsclassroom.com/class/newtlaws/Lesson-2/Types-of-Forces>

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/MC/PM65												
	Course Title: PRINCIPLES OF MECHANICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Sc. DEGREE: BRANCH I –MATHEMATICS
SYLLABUS

(Effective from the academic year 2023-2024)

OPERATIONS RESEARCH

CODE: 23MT/ME/OR45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To formulate linear programming problem for simple mathematical models
- To develop mathematical skills to analyse and solve linear programming problems and network models arising from a wide range of applications
- To identify best techniques to solve a specific problem in linear programming model of OR
- To apply CPM and PERT techniques, to plan, schedule and control project activities
- To analyse the applications of different techniques learnt and to choose the appropriate technique for industry related problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	recall the basic theory and concepts of operations research	K1
CO2	understand the operations research methodology to decision making	K2
CO3	apply the various techniques to solve LP problems	K3
CO4	analyse the various techniques and identify the best technique to solve LP problems	K4
CO5	evaluate the different models and explain its importance in real life problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs.	CO
1	Linear Programming 1.1 Formulation of Linear Programming Problems 1.2 Graphical Method of Solution 1.3 Canonical and Standard Form 1.4 Simplex Method 1.5 Artificial Variable Technique: Big-M Method	K1-K5	14	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Duality in LPP 2.1 Formulation of Dual LPP 2.2 Characteristics of the Dual Problem 2.3 Primal-Dual Optimal Solutions Transportation Model 2.4 Introduction and Assumptions to the Model 2.5 Matrix Terminology 2.6 Formulation and Solution of Transportation Model 2.6.1 North West Corner Rule 2.6.2 Least Cost Method 2.6.3 Vogel's Approximation Method 2.6.4 MODI's Optimality Test 2.7 Variants in Transportation Problems	K1-K5	14	CO1-5
3	Assignment Model 3.1 Definition and Formulation of the Assignment Models 3.2 Mathematical Representation of Assignment Models 3.3 Comparison with Transportation Model 3.4 Hungarian Method for Solution of the Assignment Problems 3.5 Variants of the Assignment Problem 3.6 Travelling Salesman Problem Sequencing Models and Related Problems 3.7 Sequencing Problems – Assumptions in Sequencing Problems 3.8 Processing n Jobs through One Machine (SPT rule only) 3.9 Processing n Jobs through Two Machines	K1-K5	12	CO1-5
4	Theory of Games 4.1 Theory of Games 4.2 Characteristics of Games 4.3 Game Models – Definitions	K1-K5	13	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	4.4 Rules for Game Theory 4.4.1 Rule 1: Look for a Pure Strategy 4.4.2 Rule 2: Reduce Game by Dominance 4.4.3 Rule 3: Solve for a Mixed Strategy 4.5 Mixed Strategies (2×2 Games) – Mixed Strategies ($2 \times n$ games or $m \times 2$ games)			
5	Network Analysis in Project Planning 5.1 Project – Project Planning – Project Scheduling – Project Controlling 5.2 W.B.S. – Basic Tools and Techniques of Project Management 5.3 Role of Network Techniques in Project Management 5.4 Network Logic-Numbering the Events 5.5 Activity on Node Diagram 5.6 Merits and Demerits of AON Diagram 5.7 Critical Path Method: Measure of Activity – Time Units - Critical Path Analysis - The Three Floats 5.8 PERT: Time Estimates - Frequency Distribution Curve for PERT	K1-K5	12	CO1-5

BOOK FOR STUDY

Gupta, Premkumar, and Hira D.S. *Operations Research*. S.Chand and Company Ltd, 7th Edition, Reprint 2021.

Chapter 2 Section 2.6, 2.9 – 2.14, 2.16 – 2.17.1

Chapter 3 Section 3.1 – 3.6

Chapter 4 Section 4.1 – 4.3, 4.5 – 4.7, 4.10

Chapter 5 Section 5.1 – 5.4

Chapter 6 Section 6.1(exclude 6.1-3, 6.1-5)

Chapter 9 Section 9.10 – 9.19

Chapter 14 Section 14.1 – 14.13

BOOKS FOR REFERENCE

Bronson, Richard, and Govindaswami Naadimuthu. *Schaum's Outlines Operations Research* Tata McGraw Hill, 2011.

Panneerselvam, R. *Operations Research*. New Delhi : Prentice-hall, 2002.

Swarup, Kanti, et al. *Operations Research*. Sultan Chand, 2009.

S, Kalavathy. *Operations Research*. Vikas Publishing House, Fourth edition 2016

WEB RESOURCES

<https://www.hindawi.com/journals/aor/2018/8958393/>

https://link.springer.com/chapter/10.1007/978-3-030-94774-3_47

<https://www.frontiersin.org/research-topics/59628/real-world-applications-of-game-theory-and-optimization>

<https://prinsli.com/applications-of-pert-and-cpm-techniques/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23MT/ME/OR45												
	Course Title: OPERATIONS RESEARCH												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Sc. DEGREE: BRANCH – I – MATHEMATICS
SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT

CODE: 23MT/ME/PR45

CREDITS: 5

PREPARATION OF PROJECT

The project shall contain around 25 pages and shall be typed with double spacing.
The format is as follows:

1. Cover page shall contain
 - a) Title of the project
 - b) Project submitted at the elective level for the B.Sc. Degree course in the ____ semester
 - c) Name of the Candidate
Department number
 - d) Department of Mathematics
Stella Maris College (Autonomous), Chennai – 600 086
 - e) Month, Year
2. The project shall contain
 - a) Contents page
 - b) At least 2 chapters including an introductory chapter (comprising motivation, basic concepts needed / used in the project and outline of the project)
 - c) Conclusions / interpretations arrived at may be given at the end of each problem in the chapter concerned
 - d) List of figures / list of abbreviations (if needed) shall be given as an appendix
 - e) Bibliography shall be given in alphabetical order at the end in MLA format
3. Each candidate may prepare 3 copies of the project, one copy for her and submit 2 copies to the Head of the department before the commencement of the end semester examination.
4. The Controller of Examination is requested to arrange for the valuation of the Project as well as the conduct of the Viva – Voce at the college where the candidates take examinations, within two weeks of the last date of examination for B.Sc. degree. The panel of examiners will consist of an internal-external examiner and the Supervisor.
The guidelines for the Viva-Voce examiners would be that
 - a) They will satisfy themselves that this is a work of the candidate as certified by the department

- b) The project is in the given format and
- c) The candidate has clear understanding of the concepts, discussed in the project.

The department should certify as follows:

*This is to certify that the project in the broad area_____titled
_____is submitted by_____at the elective level for the
degree of Bachelor of Science (Mathematics) during the year _____*

*sd/
Head of the Department*

*sd/
Supervisor*

5. PATTERN OF ASSESSMENT: There will be double valuation for the project by the supervisor and an internal-external examiner who will conduct the viva – voce.

Project – 75 marks

Rubrics for evaluation	Marks	Cognitive Level
Key Facts, Theories, and Concepts	10	K1
Conceptual Clarity	10	K2
Methodology and Application of Knowledge	15	K3
Critical Analysis of the Data / Problem	25	K4
Assessing the Significance and Implications of the Study	10	K5
Original Contribution to the Field	5	K6

Viva Voce – 25 marks

Rubrics for evaluation	Marks	Cognitive Level
Clarity, Organization and Understanding of the Project	10	K2
Ability to Apply the Knowledge to Defend the Work	10	K3
Ability to Critically Evaluate and Demonstrate the Work and Respond to Questions	5	K5

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/PR45												
	Course Title: PROJECT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	2	2	3	3	3	2	2
CO 2	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

ELEMENTS OF SPACE SCIENCE

CODE: 23MT/ME/ES45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To explore the new vistas of the universe governed by mathematics
- To visualize application of mathematics in space science
- To comprehend the astronomical occurrences involving celestial entities.
- To grasp the creation of the cosmos conceptually.
- To classify types of stars and to illustrate star charting and gain insights into telescopes

COURSE LEARNING OUTCOMES

on successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain fundamental ideas in the field of astronomy	K1
CO2	acquire the knowledge of the concepts governed by mathematics to the universe	K2
CO3	showcase the principles governing the movement of celestial objects	K3
CO4	analyze and spot the celestial bodies in the sky by naked eye / binoculars / telescopes	K4
CO5	visualize the real time application of mathematics in space science	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate

UNIT	CONTENT	CL	Hrs.	CO
1	Spherical Trigonometry 1.1 Spherical Trigonometry 1.2 Spherical Triangle- Polar Triangle -Definition 1.3 Some Properties of Spherical Triangles 1.4 Relations Between the Sides and Angles of a Spherical Triangle- Cosine, Sine, Cotangent Formula, Supplemental Cosine Formula, Five Parts Formula, Napier's Formula (Statements Only) 1.5 Napier's Analogies and Napier's Rules 1.6 Simple Problems Based on the Concepts Only	K1-K5	10	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
2	Celestial Sphere, Diurnal Motion 2.1 Celestial Sphere, Diurnal Motion- Celestial Axis, Celestial Equator – Celestial Horizon, Celestial Meridian 2.2 Cardinal Points - Declination Circles – Verticals – Parallactic Angle 2.3 Annual Motion of the Sun – First Point of Aries and First Point of Libra – Equinoxes and Solstices – Colures 2.4 Celestial Co-ordinates 2.5 To Represent the Different System of Coordinates in the Same Figure 2.6 To Find the Relation between Right Ascension and Longitude of the Sun 2.7 To Find the Longitude of Sun on Any Day 2.8 Latitude of a Place 2.9 To Find the Right Ascension and Declination of a Body 2.10 To Find the Hour Angle of a Body at Rising Or Setting – Duration of Day Time 2.11 Morning and Evening Stars – Circumpolar Stars- Condition for Circumpolar Star	K1-K5	12	CO1-5
3	The Earth 3.1 Zones of Earth 3.2 Variations in Duration of Day and Night 3.3 Duration and Condition for Perpetual Day and Perpetual Night 3.4 Simple Problems Based on Above Concepts Only 3.5 Terrestrial Latitudes and Longitudes 3.6 Phenomena on Change of Latitudes and Longitudes 3.7 Date Line – Shape of Earth 3.8 Reduction of Latitude 3.9 Dip of Horizon – Expression and Effects of Dip 3.10 Twilight - Duration of Twilight – Civil, Nautical and Astronomical Twilights	K1-K5	14	CO1-5

UNIT	CONTENT	CL	Hrs.	CO
	Planetary Phenomena 3.11 Elongation of a Planet 3.12 Direct and Retrograde Motions of Planets 3.13 To Find Positions of two Planets when they are Stationary as Seen from each other			
4	Kepler's Laws 4.1 Kepler's Laws of Planetary Motion 4.2 To Calculate the Eccentricity of the Earth's Orbit around the Sun 4.3 Newton's Deduction from Kepler's Laws - Kepler's Third Law from Newtons Law of Gravitation 4.4 To Find the Mass of a Planet The Moon 4.5 Relation Between Sidereal and Synodic Months 4.6 Phases of Moon 4.7 Position of Moon at Rising and Setting 4.8 Lunar Day, Lunar Time and Surface Structure of Moon 4.9 Earth Shine - Tides Eclipse 4.10 Lunar Eclipse – Solar Eclipse 4.11 Condition for the Occurrence of Lunar and Solar Eclipse 4.12 Maximum and Minimum Number of Eclipses Near the Node of Lunar Orbit, Maximum Number of Eclipses in a Year 4.13 Eclipse Seasons - Effect of Refraction on a Lunar Eclipse – Importance of Total Solar Eclipse 4.14 Occultations	K1-K5	14	CO1-5
5	Time 5.1 Seasons and its Causes 5.2 Calendar 5.3 Conversion of Time 5.4 Simple Problems Based on the Concepts Only Telescope Setting & Sky Observation (5 Hours) Setting of Telescope Stars, Star Clusters and Constellations Moon and Planets Nebulae Eclipse (Depends on the Occurrence)	K1-K5	15	CO1-5

BOOKS FOR STUDY

S, Kumaravelu, Kumaravelu Susheela, *Astronomy*. Sivakasi: A. Bhaskara Selvan, 2005.

Chapter 1	Sections 3, 7, 8, 13, 14, 17, 20 – 25, 29, 32
Chapter 2	Sections 40 - 45, 49 - 53, 56, 57 - 64, 66, 68, 72 - 77, 80 - 82
Chapter 3	Sections 87 – 96, 106 - 109, 111, 112, 116
Chapter 6	Sections 146, 149, 153-155
Chapter 7	Sections 173 – 186
Chapter 12	Sections 229 – 241, 242, 247, 248, 252, 254, 255
Chapter 13	Sections 256 - 259, 262, 267, 272, 273, 276, 281 - 284
Chapter 14	Sections 285, 288, 289, 298 - 301

Scalzi, John, *the Rough Guide to Universe*. London: Rough Guides Ltd., 2003.

(only for Sky Observation)

BOOKS FOR REFERENCE

V.B, Bhatia, *Text Book of Astronomy and Astrophysics with elements of Cosmology*. New Delhi: Narosa, 2001.

G.V, Ramachandran, a *Text Book of Astronomy*. Madurai: Denobili, 1972.

Sidwick. *Introducing Astronomy*. London : Faber & Faber, 1957.

W.M, Smart, *Stellar Dynamics*. London : Cambridge, 1938.

W.M, Smart, *Some Famous Stars*. London : Orient Longman, 1956.

W.M, Smart a *Text Book on Spherical Astronomy*. London : Cambridge, 1997

WEB RESOURCES

<http://www.skyandtelescope.com>

<https://twitter.com/skyandtelescope/>

<http://www.livescience.com/space/>

<http://www.universetoday.com/>

http://www.sciencedaily.com/news/space_time/astronomy/

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Model presentation / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/ES45												
	Course Title: ELEMENTS OF SPACE SCIENCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
B.Sc. DEGREE: BRANCH I –MATHEMATICS
SYLLABUS

(Effective from the academic year 2023-2024)

NUMERICAL METHODS WITH PROGRAMS IN C++
(Theory and Practical)

CODE: 23MT/ME/NM45

CREDITS: 5

L T P: 4 0 2

TOTAL TEACHING HOURS: 78

PREREQUISITES: Knowledge of C/C++ Programming

OBJECTIVES OF THE COURSE

- To obtain numerical solutions of algebraic and transcendental equations
- To find numerical solutions of system of linear equations and check the accuracy of the solution
- To describe various interpolating and extrapolating methods
- To solve initial and boundary value problems in differential equations using numerical methods
- To apply the various numerical method solutions to real life problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and recall the various concepts in numerical methods	K1
CO2	compare and relate the different numerical techniques available to solve real time problems	K2
CO3	apply numerical methods to obtain approximate solutions to mathematical problems and implement them in computer programming using C++ language	K3
CO4	analyse and evaluate the accuracy of numerical method solutions by interpreting the errors	K4
CO5	determine suitable numerical methods for various mathematical operations and tasks, such as interpolation, integration, the solution of linear and nonlinear equations, and the solution of differential equations	K5

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate

UNIT	CONTENT	CL	Hrs	CO
1	Numerical Solutions of Algebraic and Transcendental Equation 1.1 Bolzano's Bisection Method 1.2 Newton Raphson Method Iterative Methods of Solving Simultaneous Equations 1.3 Jacobi's Method 1.4 Gauss Seidel Iteration Method Practical 1.5 C++ Program to Find the Smallest Positive Root / the Largest Negative Root of the Equation $f(x) = 0$ by using the Bisection Method and Newton Raphson Method 1.6 C++ Program to Solve a System of Linear Algebraic Equations using Gauss Jacobi's Iteration Method and Gauss Siedel Method	K1- K5	10+6	CO1-5
2	Finite Differences 2.1 Forward Differences 2.2 Backward Differences 2.3 Central Differences Interpolation with Equal Intervals 2.4 Gregory-Newton's Forward and Backward Interpolation Formulae 2.5 Central Difference Interpolation Formulae – Gauss Forward and Backward Interpolation Formulae, Stirling's Interpolation Formula Interpolation with Unequal Intervals 2.6 Lagrange's Interpolation Formula for Unequal Intervals Practical 2.7 C++ Program to Interpolate and Extrapolate using the Given Pairs of Values of x and y by Newton's Forward and Backward Interpolation Formulae 2.8 C++ Program to Interpolate y using the Given Pairs of Values of x and y by Lagrange's Interpolation Formula	K1- K5	12+6	CO1-5

UNIT	CONTENT	CL	Hrs	CO
3	Numerical Differentiation 3.1 Values of the Derivatives of y based on Newton's Forward and Backward Interpolation Formulae, Stirling's Formula 3.2 Second Order Derivatives of $f(x)$ using Newton's Formulae - Maximum and Minimum Value of $f(x)$ Practical 3.3 C++ Program to Find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula	K1- K5	10+4	CO1-5
4	Numerical Integration 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule 4.3 Simpson's One Third Rule 4.4 Simpson's Three Eighth Rule Practical 4.5 C++ Program to Evaluate $\int_a^b f(x) dx$ Numerically using Trapezoidal and Simpson's rule	K1- K5	10+4	CO1-5
5	Numerical Solution to Ordinary Differential Equations 5.1 Numerical Solution of a Differential Equation 5.2 Euler's Method 5.3 Runge Kutta Method Practical 5.4 C++ Program to Solve the Differential Equation $\frac{dy}{dx} = f(x,y)$; $y(x_0) = y_0$ at the Pivotal Points by Euler's Method 5.5 C++ Program to Solve the Differential Equations $\frac{dy}{dx} = f(x,y)$; $y(x_0) = y_0$ at the Specified Pivotal Points by using Runge Kutta Method of the Fourth Order	K1- K5	10+6	CO1-5

BOOK FOR STUDY

Veerarajan T. and Ramachandran T., *Numerical Methods*. New Delhi: McGraw Hill, 2019.

Chapter 3	Sections 3.2, 3.4
Chapter 4	Section 4.5
Chapter 5	Sections 5.1 – 5.3

Chapter 6	Sections 6.1 – 6.7
Chapter 7	Section 7.6
Chapter 8	Sections 8.1– 8.3, 8.28
Chapter 10	Sections 10.1, 10.16

BOOKS FOR REFERENCE

B S Grewal, *Numerical Methods in Engineering & Science with Programs in C & C++*. Khanna Publishers, 9th Edition, 2010.

B D Gupta, *Numerical Analysis*. New Delhi : Konark Publishers Pvt. Ltd, 2000.

R S Kamala, et al. *Numerical Method*. Kumbakonam: Anuradha Pub., 2003.

P K Kandasamy, et al. *Numerical Methods*. New Delhi: S. Chand, 2006.

Saeed Akhtar Bhatti & Naeem Akhtar Bhatti, *A First Course in Numerical Analysis with C++*. Shaharyar Publishers, Lahore, 5th Edition, Reprint 2014.

S G Venkatachalapathy, *Calculus of Finite Differences and Numerical Analysis*. Chennai: Margham Pub., 2003.

WEB RESOURCES

<https://numericalmethodstutorials.readthedocs.io/en/latest/>

<https://www.sanfoundry.com/c-program-solve-linear-equation-one-variable/>

<https://nptel.ac.in/courses/122106033/>

<http://www.nr.com>

<http://www.bruceeckel.com>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment: Theory Pattern Marks: 30 Duration: 50 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	2	$1 \times 2 = 2$ (2 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set))
C	K3	24	$3 \times 8 = 24$ (4 questions to be set)

Continuous Assessment: Practical Pattern Marks: 20 Duration: 40 minutes

Section	Cognitive Level	Marks	Pattern
D	K4	10	$1 \times 10 = 10$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components: Total Marks: 50

Seminars / Problem Solving / Assignment / Case Study / Mini Project/ Writing Algorithms

End-Semester Examination: Theory Pattern Marks: 60 Duration: 105 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	8	$8 \times 1 = 8$ (8 MCQ to be set))
C	K3	48	$6 \times 8 = 48$ (8 questions to be set)

End-Semester Examination: Practical Pattern Marks: 40 Duration: 75 minutes

Section	Cognitive Level	Marks	Pattern
D	K4	20	$1 \times 20 = 20$ (2 questions to be set)
E	K5	20	$1 \times 20 = 20$ (2 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/NM45												
	Course Title: NUMERICAL METHODS WITH PROGRAMS IN C++												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

PROGRAMMING IN C++

(Theory and Practical)

CODE: 23MT/ME/CP45

CREDITS: 5

L T P: 2 0 3

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand about object-oriented languages and their applications
- To introduce basic concepts of C++ language
- To provide knowledge about various conversions
- To enlighten the various inheritance system
- To impart knowledge on files and exception handling

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall various concepts relating to languages and applications	K1
CO2	understanding various functions and tools of C++	K2
CO3	apply appropriate tools to solve various problems	K3
CO4	analyse different techniques in programming	K4
CO5	assess suitable areas of application	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Basics of C++ 1.1 Introduction to C++ 1.2 Tokens, Keywords, Identifiers, Variables, Operators, Manipulators 1.3 Data Types - Expressions and Control Structures in C++ 1.4 Simple C++ Programs	K1- K5	12	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Functions in C++ 2.1 Main Function 2.2 Function Prototyping 2.3 Parameters Passing in Functions 2.4 Values Return by Functions 2.5 Inline Functions 2.6 Friend and Virtual Functions 2.7 Math Library Functions	K1- K6	13	CO1-5
3	Classes and Objects 3.1 Constructors and Destructors 3.2 Operator Overloading and Type Conversions 3.3 Type of Constructors 3.4 Function, Definition - Function Overloading – Function Overriding	K1- K6	13	CO1-5
4	Inheritance and Pointers 4.1 Single Inheritance 4.2 Multilevel Inheritance 4.3 Multiple Inheritance 4.4 Hierarchical Inheritance 4.5 Hybrid Inheritance 4.6 Pointers 4.7 Virtual Functions and Polymorphism 4.8 Managing Console I/O Operations	K1- K6	14	CO1-5
5	Working with Files 5.1 Classes for File Stream Operations 5.2 Opening and Closing a File 5.3 End-of-file Deduction 5.4 File Pointers 5.5 Updating a File 5.6 Error Handling during File Operations 5.7 Command line Arguments	K1- K6	13	CO1-5

BOOK FOR STUDY

E, Balagurusamy. *Object Oriented Programming with C++*. McGraw-Hill, Eighth Edition, 2020.

BOOKS FOR REFERENCE

B, Chandra. *Object Oriented Programming using C++*. New Delhi: Narosa Publishers, 2002.

Gilberg, Richard F. *Data Structures : A Pseudocode Approach with C++*. USA: Brooks/Cole, 2001.

S, Holzner. *C++ Black Book*. New Delhi: Dreamtech Press, 2000.

Kutti, N.S. Padhye, P.Y. *Data Structures in C++*. New Delhi: Prentice-Hall of India Pvt. Ltd, 2003.

Weiss, M. A. *Data Structures and Algorithm Analysis in C++*. Fourth Edition, USA: Pearson Education Inc., 2014.

WEB RESOURCES

<https://www.cplusplus.com/doc/tutorial/>

<https://www.programiz.com/cpp-programming>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Theory Pattern

Section	Cognitive Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (5 MCQ to be set)
B	K2	5	$5 \times 1 = 5$ (5 MCQ to be set)
C	K4	5	$1 \times 5 = 5$ (2 questions to be set)

Practical Pattern

Section	Cognitive Level	Marks	Pattern
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K5	10	$1 \times 10 = 10$ (2 questions to be set)
E	K6	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100

Duration: 3 hours

(Question paper to be prepared jointly by one course teacher and one internal–external examiner)

Theory Pattern

Section	Cognitive Level	Marks	Pattern
A	K1	10	$10 \times 1 = 10$ (10 MCQ to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K4	10	$2 \times 5 = 10$ (4 questions to be set)

Practical Pattern

Section	Cognitive Level	Marks	Pattern
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K5	20	$2 \times 10 = 20$ (4 questions to be set)
E	K6	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/ME/CP45												
	Course Title: PROGRAMMING IN C++												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 2	3	3	3	3	3	3	1	1	3	3	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the department of Mathematics
for B A. / B.Sc. / B.V.A. / B.Com. Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

THE FASCINATING WORLD OF MATHEMATICS

CODE: 23MT/GE/WM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce some Indian Mathematicians and their contributions
- To understand Mathematics through puzzles and paradoxes
- To cite a few real life applications through Mathematical models

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	acquire knowledge of some fascinating aspects of mathematics	K1
CO2	understand the various interesting facets of Mathematics	K2
CO3	demonstrate solutions to real world problems using Mathematical approach	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs.	CO
1	Some Indian Contributors to Mathematics 1.1 Baudhayana 1.2 Aryabhata 1.3 Bhaskara I 1.4 Shridhara 1.5 Bhaskara II 1.6 Srinivasa Ramanujan 1.7 A.A. Krishnaswami Ayyangar 1.8 Ramaswamy S. Vaidyanathaswamy	K1	10	CO1-3

UNIT	CONTENT	CL	Hrs.	CO
	1.9 Alladi Ramakrishnan 1.10 P.C. Mahalanobis 1.11 C. R. Rao 1.12 Harish Chandra 1.13 C. S. Seshadri 1.14 Sakunthala Devi 1.15 S. R. Srinivasa Varadhan 1.16 R. Parimala 1.17 Other Contemporary Mathematician			
2	Mathematical Puzzles and Paradoxes 2.1 Magic Squares 2.2 Sleeping Beauty Puzzle 2.3 Monty Hall Probability Puzzle 2.4 Crossword 2.5 Number Puzzles by Shakuntala Devi 2.6 Missing Square Paradox 2.7 Potato Paradox 2.8 Zeno's Paradox 2.9 Necktie Paradox 2.10 Three Prisoner's Paradox 2.11 Boy or Girl Paradox 2.12 Sorites Paradox 2.13 Elevator Paradox 2.14 Barber's Paradox	K2	9	CO1-3
3	Project 3.1 Mathematical Model – Applications of Mathematics in real life	K3	7	CO1-3

BOOKS FOR STUDY AND REFERENCE

Rooney, Anne. *The Story of Mathematics*, China: Arcturus, 2008.

Joseph, George Gheverghese. *The Crest of the Peacock Non-European Roots of Mathematics*, Chennai: East-West, 1990.

J.N, Kapur. *IXOHXI*, New Delhi: Mathematical Sciences Trust Society, 1998.

J.N, Kapur. *Mathematical Games for All*, New Delhi: Mathematical Sciences Trust Society, 1998.

J.N,Kapur. *Some Eminent Indian Mathematicians of Twentieth Century*, New Delhi: Mathematical Sciences Trust Society, 1994.

Perelman, Ye.I.P. Mathematics can be Fun, Mir Publishers Moscow: 1973, English Translation, 1985.

Devi, Shakuntala. *Puzzle to Puzzle You*, New Delhi: Orient Paperbacks, 1976, 45th Edition, 2014.

Devi, Shakuntala. *Figuring – The Joy of Numbers*, New Delhi: Orient Paperbacks, 1986.

WEB RESOURCE

www.samloyd.com

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Problem Solving / Assignment

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the department of Mathematics
for B A. / B.Sc. / B.V.A. / B.Com. Degree Programmes

SYLLABUS
(Effective from the academic year 2023-2024)

CELESTIAL WONDERS

CODE: 23MT/GE/CW22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To give insight into astronomy and familiarize with the recent events in space
- To introduce the features of planet, sun, moon and the stellar universe
- To understand and explain the movements of the sun, moon and planets, as viewed from earth

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	acquire some basic knowledge in astronomy	K1
CO2	classify the reasons behind the celestial events	K2
CO3	examine and critique the expansive and dynamic nature of our universe	K3
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Celestial Sphere and Diurnal Motion 1.1 Celestial Sphere 1.2 Diurnal Motion – Celestial Axis and Equator 1.3 Celestial Horizon 1.4 Zenith and Nadir - Celestial Meridian 1.5 Cardinal Points - Different Hemispheres 1.6 Visible and Invisible Hemispheres 1.7 Declination Circles, Verticals 1.8 Rising and Setting 1.9 Transit or Culmination 1.10 Annual Motion of the Sun – First point of Aries, First point of Libra, Equinoxes and solstices 1.11 Circumpolar Stars	K1- K3	9	CO1-3

UNIT	CONTENT	CL	Hrs	CO
2	The Stellar Universe 2.1 The Milky Way Galaxy 2.2 Zodiacal Constellations 2.3 Stars – Double Stars, Multiple Stars and Variable Stars Planetary Phenomena 2.4 Direct Motion and Retrograde Motion 2.5 Stationary Points The Solar System 2.6 Sun, Planets, Comets, Meteors and Meteoroids 2.7 Space Probes	K1- K3	8	CO1-3
3	Earth, Moon and Sky 3.1 Elongation - Conjunction, Opposition, Quadratures 3.2 Daily Motion of the Moon - Age of Moon 3.3 Phase of Moon (definition only) - Successive Phases of Moon 3.4 Moon Exhibits the Same Side to the Earth 3.5 Surface Structure of Moon 3.6 The Tides - Tsunami 3.7 Types of Eclipses – Lunar and Solar Eclipse (no derivations), Duration of a Solar Eclipse 3.8 Importance of Total Solar Eclipses 3.9 Comparison of Solar and Lunar Eclipses Observation and Visit to Planetarium Observation in College: Sun spots, planets, meteors, constellations, moon and its craters, comets and eclipses	K1- K3	9	CO1-3

BOOKS FOR STUDY

Kumaravelu, S. and Susheela Kumaravelu, *Astronomy*. Sivakasi: A.Bhaskara Selvan, Revised and Enlarged Edition 2005, Reprint 2009.

Bhatia, V.B, *Text Book of Astronomy and Astrophysics with elements of Cosmology*. New Delhi: Narosa, 2001.

WEB RESOURCES

<http://www.skyandtelescope.com>

<http://www.ndtv.com/topic/national-aeronautics-and-space-administration>

<http://www.nasa.gov/news/index.html>

<http://www.livescience.com/space/>

<http://www.universetoday.com/>

<http://abcnews.go.com/Technology/Space>

http://www.sciencedaily.com/news/space_time/astronomy/

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:		Total Marks: 25	Duration: 45 minutes
Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Assignment / Exhibition / Case Study / Mini Project/Report on Observations

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the department of Mathematics
for B A. / B.Sc. / B.V.A. / B.Com. Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

AUTOMATA

CODE: 23MT/GE/AM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To acquaint students with the fundamental principles and underpinnings of computational theory
- To present an abstract computer model while providing an overview of how Automata theory is applied in various contexts
- To equip students with a deep understanding of formal languages and computational models, fostering their ability to analyze and solve complex problems in mathematics and computer science

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	comprehend the relationship between languages and computational processes	K1
CO2	assess the computational capabilities of machines	K2
CO3	examine the practical applications of automata	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to the Theory of Computation 1.1 Mathematical Preliminaries and Notations, Sets, Functions and Relations 1.2 Graphs and Trees, Proof Techniques 1.3 Three Basic Concepts 1.4 Languages, Grammars and Automata 1.5 Some Applications	K1- K3	10	CO1-3

UNIT	CONTENT	CL	Hrs	CO
	Finite Automata 1.6 Deterministic Finite Accepters 1.7 Deterministic Accepters and Transition Graphs 1.8 Languages and Dfas, Regular Languages 1.9 Nondeterministic Finite Accepters, Definition of a NDA 1.10 Why Nondeterminism?			
2	Regular Languages and Regular Grammars 2.1 Regular Expressions 2.2 Languages Associated with RE 2.3 RE Denote RL , RE for RL 2.4 RG, Right- and Left-Linear Grammars Context Free Languages 2.5 Context Free Grammar 2.6 Left Most and Right Most Derivations	K1- K3	8	CO1-3
3	Project 3.1 Application of Finite Automata and Formal Language 3.2 Design of Vending Machine 3.3 Document Language Design 3.4 Cryptography 3.5 DNA Computing	K1- K3	8	CO1-3

BOOK FOR STUDY

Linz, Peter. *An Introduction to Formal Languages and Automata*, New Delhi: Narosa Publishing House, 3rd Edition, 2005.

BOOKS FOR REFERENCE

Behera, Nayak and Pallnayakan. *Formal Languages and Automata Theory*. New Delhi: Vikas, 2014.

Krithivasan, Kamala. and Rama, R. *Introduction to Formal Languages, Automata Theory and Computation*, Chennai: Pearson, 2009.

Siromoney, Rani. *Formal Languages and Automata*. Madras: The Christian Literature Society, 1974.

WEB RESOURCE

<http://www.iitg.ernet.in/dgoswami/Flat-Notes.pdf>
<https://www.ics.uci.edu/~goodrich/teach/cs162/notes/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Assignment / Exhibition / Case Study / Mini Project/Report on Observations

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the department of Mathematics
for B A. / B.Sc. / B.V.A. / B.Com. Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

BASIC MATHEMATICS

CODE: 23MT/GE/BM22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce the fundamental mathematical concepts
- To employ different techniques to solve problems pertaining to matrices, polynomials, differentiation and integration
- To promote problem solving skills and quantitative analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall and define the basic mathematical concepts on matrices, differentiation and integration	K1
CO2	understand the concepts relating to matrices, polynomials, differentiation and integration	K2
CO3	utilize suitable mathematical concepts and skills to solve problems including those in real life contexts	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Matrices 1.1 Matrices-Elementary Concepts 1.2 Evaluation of Determinant of a Square Matrix 1.3 Types of Matrices-Sum and Product of Matrices 1.4 Inverse of a Square Matrix of Order 2 and Order 3 1.5 Rank of Matrix	K1- K3	8	CO1-3

2	Theory of Equations 2.1 Relation between Roots and Coefficients 2.2 Solution of Equations under Simple given Conditions 2.3 Formation and Solution of Equations with Imaginary and Surd Roots	K1- K3	10	CO1-3
3	Differential and Integral Calculus 3.1 Differential Coefficient of $f(x)$ with respect to x - rules for Differentiation 3.2 Differential Coefficient of Standard Functions 3.3 Integration as the inverse process of Differentiation 3.4 Integration of Standard Functions	K1- K3	8	CO1-3

BOOKS FOR STUDY

T.K, Manicavachgam Pillay, *et al.*, *Algebra Vol. II*. Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2006.

T.K, Manicavachgam Pillay, *et al.*, *Algebra Vol. I*. Chennai : S. Vishwanthan printers and publishers Pvt. Ltd., 2006.

S, Narayanan and Manicavachgam Pillay T.K. *Ancillary Mathematics: Book II*. Chennai: S. Vishwanthan printers and publishers Pvt. Ltd., 2004 .

S, Narayanan, *et al.*, *Ancillary Mathematics Vol. I* Chennai : S.Vishwanthan printers and publishers Pvt. Ltd., 2007.

M. K, Venkataraman and Manorama, *Classical Algebra and Trigonometry*. Chennai: Sivasankar, 2001

WEB RESOURCES

<https://ncert.nic.in/textbook/pdf/lemh103.pdf>

https://www.youtube.com/watch?v=B_sj1gWR2oE

https://www.youtube.com/watch?v=WrmwQWtQ5Nc&list=PLbmRGZKU9l1zKYY6_E5WOMd9Zv1CQAvZi

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Assignment / Exhibition / Case Study / Mini Project/Report on Observations

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086
General Elective Course offered by the department of Mathematics
for B A. / B.Sc. / B.V.A. / B.Com. Degree Programmes

SYLLABUS

(Effective from the academic year 2023-2024)

RESOURCE MANAGEMENT TECHNIQUES

CODE: 23MT/GE/RT22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To create awareness about optimization in utilization of resources
- To solve transportation and assignment problems using different methods
- To understand operations, research techniques used for planning, scheduling and controlling large and complex projects

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	define the basic terminology and concepts used in operation research, transportation, assignment and in networks	K1
CO2	understand the formulation of Mathematical problem in transportation, assignment problem and project network	K2
CO3	apply transportation problem, assignment problem and critical path problem to real world situation	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs.	CO
1	Introduction to Operations Research (OR) 1.1 Introduction 1.2 Role of OR in Business, Management and Engineering 1.3 Classification of Models 1.4 Some Characteristics of a Good Model 1.5 Principles of Modelling 1.6 General Methods for Solving OR Models	K1-K3	9	CO1-3

UNIT	CONTENT	CL	Hrs.	CO
	1.7 Main Phases of OR 1.8 Limitation Transportation Model 1.9 Introduction 1.10 Standard Transportation Table 1.11 Method for Finding Initial Basic Feasible Solution- North West Corner Rule, Least Cost Method and Vogel's Approximation Method			
2	Assignment Problem 2.1 Introduction 2.2 Hungarian Method 2.3 Unbalanced Assignment Models 2.4 Traveling Salesman Problem	K1-K3	8	CO1-3
3	Project Network Analysis 3.1 Introduction 3.2 Basic Terminologies 3.3 Rules for constructing a Project Network 3.4 Network Computations - CPM	K1-K3	9	CO1-3

BOOK FOR STUDY

V, Sundaresan et al. *Resource Management Techniques*. A. R. Publications. 2002.

Chapter 1 Sections 1.1 – 1.9

Chapter 7 Sections 7.1

Chapter 8 Sections 8.1, 8.5, 8.6, 8.9

Chapter 15 Sections 15.1 – 15.4

BOOKS FOR REFERENCE

S, Kalavathy. *Operations Research*. Fourth Edition, Vikas, 2013.

Gupta, Premkumar and Hira D.S. *Operations Research*. S Chand, 2011.

V.K, Kapoor. *Operations Research (Quantitative Techniques for Management)*. Sultan Chand, 2013.

R, Panneerselvam. *Operations Research*. Prentice-hall, 2002.

Swarup Kanti, et al. *Operations Research*. Sultan Chand, 2009.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	4	$2 \times 2 = 4$ (3 questions to be set)
B	K2	6	$6 \times 1 = 6$ (8 MCQ to be set)
C	K3	15	$1 \times 5 = 5$ (2 questions to be set) $1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 25

Seminars / Quiz / Problem Solving / Assignment

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: BRANCH I –MATHEMATICS

SYLLABUS

(Effective from the academic year 2023-2024)

COMBINATORICS

CODE: 23MT/UI/CO23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To equip students with the foundational knowledge and techniques useful for counting
- To introduce generalized permutations and combinations and the inclusion-exclusion principle
- To provide opportunities for students to apply combinatorial techniques to solve problems in computer science, statistics and operations research
- To acquaint the knowledge of generating functions as a powerful tool for solving combinatorial problems
- To foster problem-solving skills to approach combinatorial problems critically

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- recall the foundational knowledge and techniques for counting objects and events systematically
- understand the important notions of combinatorics and their applications
- apply various techniques for combinatorial mathematics to tackle complex counting problems
- analyze different combinatorial structures and implement their applications in combinatorial analysis
- examine various large and complex real world problems using clear and logical combinatorial arguments to support their solutions

Unit 1

Basic Tools

1.1 The Sum Rule and the Product Rule

1.2 Permutations and Combinations

1.3 The Pigeonhole Principle

1.4 Problems on the Sum Rule and Product Rule

1.5 Problems on Permutations and Combinations

1.6 Problems on the Pigeonhole Principle

Unit 2

Further Basic Tools

- 2.1 Generalized Permutations and Combinations
- 2.2 Sequence and Selections
- 2.3 The Inclusion – Exclusion Principle

Unit 3

Problems on Generalized Permutations, Combinations and the Inclusion-Exclusion Principle

- 3.1 Problems on Generalized Permutations and Combinations
- 3.2 Problems on Sequence and Selections
- 3.3 Problems on the Inclusion-Exclusion Principle
- 3.4 Problems on the Permanent of a Matrix

Unit 4

Generating Functions and Recurrence Relations

- 4.1 Ordinary Generating Functions
- 4.2 Partitions of a Positive Integer
- 4.3 Recurrence Relations

Unit 5

Problems on Generating Functions and Recurrence Relations

- 5.1 Problems on Ordinary Generating Functions
- 5.2 Problems on Partitions of a Positive Integer
- 5.3 Problems on Recurrence Relation

BOOK FOR STUDY

V.K, Balakrishnan. *Combinatorics including concepts of Graph Theory*, Schaum's Outlines, New Delhi: Tata McGraw-Hill Publishing Company, 2005.

BOOKS FOR REFERENCE

D.S, Chandrasekharaiah. *Graph Theory and Combinatorics*, Chennai: Prism, 2005.

Cohen, Daniel I.A. *Basic Techniques of Combinatorial Theory*, New York: John Wiley Publishers, 1978

V, Krishnamurthy. *Combinatorics – Theory and Applications*, New Delhi: Affiliated East West Press, 1989.

PATTERN OF ASSESSMENT

No Unit should be left out.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A: $10 \times 2 = 20$ (Twelve questions to be set selecting at least two from each unit)

Section B: $5 \times 8 = 40$ (Seven questions to be set without omitting any unit)

Section C: $2 \times 20 = 40$ (Three questions to be set without omitting any unit)



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

**B.A. DEGREE
ENGLISH AND COMMUNICATION SKILLS
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH

PROGRAMME DESCRIPTION

The B.A. English and Communications Skills Degree programme lays equal emphasis on honing both literary and language skills. Through a range of texts from literatures across the globe, the programme intends to train students to engage critically with multiple genres and sensitise them to varied social contexts and multiple cultural and literary traditions. It also aims to provide students with opportunities to hone their communication skills in various professional contexts in a global environment that employs multiple modes of communication. While the courses cover a wide spectrum of skills for specific corporate and creative sectors—including advertising, business, public service and health care—it also seeks to prepare students for higher studies in the discipline. The overarching vision of the programme is to create independent learners equipped with creative, critical, and analytical skills required for lifelong learning.

VISION OF THE DEPARTMENT

Enable students to become socially conscious individuals by nurturing their literary sensibilities, language competencies and critical thinking.

MISSION OF THE DEPARTMENT

- To impart knowledge and skills for a holistic understanding of literatures in English in the capacity to interpret, evaluate, and contextualize literary and social texts.
- To equip students with language and communication skills for further research and career opportunities.
- To inculcate the spirit of research in tandem with an independent pursuit of learning in their study.
- To create socially responsible individuals who display critical sensibility towards experiences of diverse communities.
- To disseminate knowledge on the expanding fields in language and literature that would prepare them to a wide variety of meaningful professional employment opportunities upon graduation.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

PROGRAMME SPECIFIC OUTCOMES

On successful completion of the B.A. English and Communication Skills programme, the students will be able to

PSO 1	Identify and analyse generic features of different literary texts to apply critical ideas and values in various professional contexts
PSO 2	Demonstrate communication skills to present clear and coherent expressions of knowledge and ideas
PSO 3	Apply theories, methods, and practices effectively and respond to real-world challenges and opportunities
PSO 4	Display critical sensibility to lived experiences, with awareness of both self and society.
PSO 5	Evaluate texts as part of the political, social, cultural and environmental realities

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.A. English and Communication Skills 2023 - 2024 Shift II														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	3	4	3	4	3	4	5	6	5	6	5	6	24	30
Major Core	3	4	5	6	4	5	4	5	5	6	5	6	26	32
									5	6	5	6	10	12
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	110
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library		1		1		1		1		1		1	0	6
Mentoring		1		1						1		1	0	4
											Total		4	12
Total	25	30	25	30	25	30	25	30	24	30	25	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE - ENGLISH AND COMMUNICATION SKILLS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23CE/MC/PS13	Presentation Skills	3	3	1	0	3	50	50	100
23CE/MC/PP13	Introduction to Prose and Poetry	3	3	1	0	3	50	50	100
23CE/AC/SW15	Introduction to Subaltern Writing	5	5	0	0	3	50	50	100
23CE/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23CE/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
SEMESTER-II									
23CE/MC/WM23	Writing for the Media	3	3	1	0	3	50	50	100
23CE/MC/DF25	Introduction to Drama and Fiction	5	5	1	0	3	50	50	100
23CE/AC/LG25	Introduction to Linguistics	5	5	0	0	3	50	50	100
23EL/SS/PD13	Life Skills: Personality Development	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23CE/MC/AW33	Academic Writing	3	3	1	0	3	50	50	100
23CE/MC/BL34	Literature of the British Isles	4	4	1	0	3	50	50	100
23CE/AC/LI35	Literature and Ideas	5	5	0	0	3	50	50	100
23CE/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23CE/MC/LC44	Literary Criticism	4	4	1	0	3	50	50	100
23CE/MC/CW45	Contemporary World Literature	5	5	1	0	3	50	50	100
23CE/AC/GD45	Literature and Gender	5	5	0	0	3	50	50	100
	Major Elective I								
SEMESTER-V									
23CE/MC/LT55	English Language Teaching	5	5	1	0	3	50	50	100
23CE/MC/IL55	Indian Literatures I	5	5	1	0	3	50	50	100
23CE/MC/EA55	English for Advertising	5	5	1	0	3	50	50	100
	General Elective III								
	SAP / SL								
Interdisciplinary Core (CE and PY) to students of Eng.& Comm.Skills and Psychology									
23ID/IC/LP55	Literature and Psychology	5	5	1	0	3	50	50	100
SEMESTER-VI									
23CE/MC/IL65	Indian Literatures II	5	5	1	0	3	50	50	100
23CE/MC/AL65	American Literature	5	5	1	0	3	50	50	100
23CE/MC/TW65	Technical Writing	5	5	1	0	3	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE - ENGLISH AND COMMUNICATION SKILLS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV								
Major Electives									
23CE/ME/WC45	World Classics in Translation	5	5	0	0	3	50	50	100
23CE/ME/CC45	Content and Copy Editing	5	5	0	0	3	50	50	100
23CE/ME/CL45	Introduction to Children's Literature	5	5	0	0	3	50	50	100
23CE/ME/RF45	Reading Films	5	5	0	0	-	50	-	100
23CE/ME/LF45	Literature and Food	5	5	0	0	3	50	50	100
23CE/ME/PR45	Project	5	0	0	5	-	50	50	100
General Electives									
23CE/GE/FF22	Fiction and Film	2	2	0	0	-	50	-	100
23CE/GE/EE22	English for Competitive Examinations	2	2	0	0	-	50	-	100
23CE/GE/PC22	Popular Culture	2	2	0	0	-	50	-	100
23CE/GE/GN22	The Graphic Novel	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23CE/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23CE/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23CE/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23CE/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23CE/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23CE/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23CE/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23CE/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23CE/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Electives									
23CE/UI/CM23	Novel of Courtship and Marriage	3	0	0	0	3	-	100	100
23CE/UI/PR23	Poetry of the Romantic Age	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

PRESENTATION SKILLS

CODE: 23CE/MC/PS13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To relate and introduce concepts integral for an effective oral presentation and delivery
- To outline and demonstrate speeches for different occasions
- To construct presentations by gathering relevant information, determining the needs of the audience and defining the purpose of the presentation.
- To discover the effective ways of using audio-visual aids for productive oral presentations
- To create confidence in students with the use of multimedia tools in presentation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline presentation styles and express effective presentation skills	K1, K2
CO2	compare and contrast speeches for different occasions	K3
CO3	identify rhetorical devices and organise presentations using the concepts	K4
CO4	critically appraise the use of non-verbal communication that enhances presentations	K5
CO5	design and develop presentations using multimedia tools and techniques	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Creating a Presentation Features of an Information and Persuasion Presentation Basic Presentation Patterns Creating Visual Information Preparing an Outline and Acknowledging Sources	K1-K6	10	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Delivering a Presentation Paralinguistic Features – Eye Contact, Body Language, Voice Modulation Using a Note card for a Presentation Using Rhetorical Devices Observing Features of Good Speeches	K1-K6	10	1-5
3	Post Presentation Observations Handling Post Presentation Interaction Providing Constructive Positive/Negative Feedback Speech for Special Occasion	K1-K6	12	1-5
4	IT Skills Using Appropriate Presentation Software Choosing an Effective Design in Presentation Software Using Slide Transitions and Animation Effectively Using Word-Processing Software to Create a Handout Using Data-Processing Software to Create a Chart or Graph	K1-K6	12	1-5
5	Practical Application Tasks	K5& K6	8	1-5

BOOKS FOR REFERENCE

Chivers, Barbera and Michael Shoolbred. *A Student's Guide to Presentations: Making your Presentation Count*. Sage Publications, 2017.

Lundberg, Debbie. *Presenting Powerfully: Ideas, Outlooks & Actions for Empowering Presentations*. Debbie Lundberg Inc., Florida, 2011.

Mattiske, Catherine. *Persuasive Presentation Skills: Create, Prepare and Design with Confidence*. The Performance Company Pvt. Ltd., Australia, 2011.

McCarthy, Patsy and Caroline Hatcher. *Presentation Skills: The Essential Guide for Students*. Sage Publications, Australia, 2002.

Negrino, Tom. *Creating a Presentation in Powerpoint*. Peach pit Press, California, 2005.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C (Internal choice)	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D (Internal choice)	K5	5	1x5=5 (1 out of 2 questions, 100 words)
	K6	5	1x5=5 (1 out of 2 questions, 100 words)

Other Components:**Total Marks: 50**

Voice-over PowerPoint Presentation/Group presentation/Assignment

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (Definitions/ Short Notes) 4 out of 5 questions, 75 words
B	K2	20	2x10=20 (Short Answers/ Speech Analysis) 2 out of 3 questions, 150 words
C (Internal choice)	K3	20	1x20=20 (Essays) 250 words
	K4	20	1x20=20 (Outline for Presentations) 250 words
D (Internal choice)	K5	10	1x10=10 (Guided Speech Writing based on details provided) 200 words
	K6	10	1x10=10 (Writing Speeches for Occasions) 200 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/PS13												
III	Course Title: Presentation Skills												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	1	3	3	1	1	3	3	2	2	2
CO 2	1	2	3	1	3	3	2	1	2	3	2	3	3
CO 3	1	3	3	2	2	2	2	1	2	3	2	2	3
CO 4	1	3	3	2	3	1	1	1	2	2	2	3	3
CO 5	1	3	3	3	3	3	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO PROSE AND POETRY

CODE: 23CE/MC/PP13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To define the generic features of varied prose and poetic forms
- To demonstrate an understanding of the different literary techniques and devices with relation to texts
- To identify ideas and themes in texts
- To analyse a variety of prose texts and poems with reference to context, content and form
- To formulate critical analyses of prose texts and poems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify forms, techniques, themes and devices of prose and poetry.	K1
CO2	relate forms, techniques, themes and devices to the prescribed texts.	K2
CO3	apply features and concepts discussed to the prescribed texts.	K3
CO4	critically examine the use of techniques and devices in the prescribed texts.	K4
CO5	evaluate the prescribed texts with reference to techniques, devices and formal elements and formulate critical responses.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Prose Forms 1.1. Prose Forms (Essay, Speech, News Article, Biography ...)	K1-K6	6	1-5
2	Prose: A Selection 2.1. Charles Lamb: Dream Children 2.2. Abraham Lincoln: The Gettysburg Address 2.3. Ramchandra Guha: The Locality and the Nation, <i>The Hindu</i> , Sunday Magazine, 31 August 2003 2.4. George Mikes: Tea 2.5. Severn Suzuki: Earth Summit	K1-K6	16	1-5

3	Introduction to Poetic Forms 3.1. Poetics Forms (Lyric, Elegy, Ode, Ballad....)	K1-K6	6	1-5
4	Poetry: A Selection 4.1. William Shakespeare: Sonnet 18 4.2. John Keats: Ode to a Nightingale 4.3. Maya Angelou: Phenomenal Woman 4.4. Jackie Kay: In My Country	K1-K6	14	1-5
5	Practical Application Tasks Analysis of prose and poetic texts on the syllabus	K5& K6	10	1-5

BOOKS FOR REFERENCE

Bloom, Harold. *How to Read and Why*. Touchstone, New York, 2001.

Eagleton, Terry. *How to Read a Poem*. Blackwell Publishing, Victoria, 2007.

Matterson, Stephen and Darryl Jones. *Studying Poetry*. Oxford UP, New York, 2000.

Shelston, Alan. *Biography*. Methuen, London, 1977.

Walker, Hugh. *The English Essays and Essayists*. S. Chand & Co., New Delhi, 1966.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3/K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4/K4	10	1x10=10 (1 out of 2 questions, 150 words)
D	K5/K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6/K6	5	1x5=5 (Passage analysis from texts on the syllabus, 75 words)

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class

Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100**Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3/K3	20	1x20=20 (1 out of 2 questions, 250 words)
	K4/K4	20	1x20=20 (1 out of 2 questions, 250 words)
D	K5/K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6/K6	10	1x10=10 (Passage analysis from texts on the syllabus, 150 words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/PP13												
III	Course Title: Introduction to Prose and Poetry												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	1	1	1	1	3	2	2	3	3
CO 2	3	3	2	1	1	1	1	1	3	2	2	3	3
CO 3	3	3	2	1	1	2	1	1	3	2	3	3	3
CO 4	3	3	2	1	1	1	1	2	3	3	3	3	3
CO 5	3	3	2	1	1	2	1	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023 - 2024)

INTRODUCTION TO SUBALTERN WRITING

CODE: 23CE/AC/SW15

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

COURSE OBJECTIVES

- To define issues related to the marginalised sections of society
- To show a deeper understanding of the concept of subalternity
- To apply subaltern concepts and theories to interpret and analyse texts
- To analyse texts in relation to the issues in the real world
- To critically evaluate literary texts and discuss contemporary issues with reference to the subaltern theories

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define subalternity and understand the issues related to the marginalised sections of the society	K1, K2
CO2	develop a sensitive approach towards the marginalised sections of the society	K3
CO3	discover and examine the causes and consequences of oppression	K4
CO4	assess, evaluate and justify literary texts with reference to the concepts and theories of subalternity	K5
CO5	discuss and elaborate their understanding of the issues represented in the texts to the real world	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Background Reading 1.1 Concepts & Theories subaltern, colonizer & colonised, elite, agency, prolétariat & bourgeois, stereotype, prejudice & discrimination, margin & centre, marginalisation, hegemony, cultural hegemony, intersectionality, imperialism, identity, self & other, neo-colonialism 1.2 Paulo Freire: Introduction, <i>Pedagogy of the Oppressed</i> 1.3 Frantz Fanon: On Violence(from <i>The Wretched of the Earth</i> , pp 1-13)	K1-K6	20	1-5
2	2.1 Saeed Akhtar Mirza: The First Lady and the Terrorist: A Film Script in Five Acts(from <i>Ammi: Letter to a Democratic Mother</i> pp.250-307)	K1-K6	15	1-5
3	3.1 Mahasweta Devi: Kunti and the Nishadin(from <i>After Kurukshetra</i>)	K1-K6	10	1-5
4	4.1 Nellie Wong: When I Was Growing Up 4.2 Cherrie Moraga: The Welder 4.3 S. Sukirtharani: A Faint Smell of Meat	K1-K6	15	1-5
5	Practical Application Tasks	K5& K6	5	1-5

BOOKS FOR REFERENCE

- Anazaldua, Gloria. *This Bridge Called My Back: Writing by Radical Women of Color*. Kitchen Table: Women of Colour, 1983, pp. 165-173.
- Fanon, Frantz. *Black Skin, White Mask*. Grove, 1967.
- Gail Omvedt "Chapter 11: Sita's Curse and Shambuk's Silence." *Dalit Visions*, Orient Longman, 2006.
- Gramsci, Antonio. "History of the Subaltern Classes." *Prison Notebooks* Vol. II, edited and translated by Joseph A. Buttigieg, 1996, 24-25.
- Milner, Andrew and Jeff Browitt. *Race and Ethnicity in Black and Latino Cultural Studies: Contemporary Critical Theory*. Rawat, 2003.
- Nilsen, Alf Gunvald and Srila Roy, eds. *New Subaltern Politics. Reconceptualizing Hegemony and Resistance in Contemporary India*. OUP 2015.
- Spivak, Gayatri Chakrabarti. "Subaltern Studies: Deconstructing Historiography" Vol IV. *Writings on South Asian History and Society*, edited by Ranajit Guha, OUP, 1985, pp. 330-363.

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	[Objective Type questions] - 4 subsections Choose, Assertion and Reason, Fill in the blanks, Match, True or False [OR] 2x5=10 (2 out of 4 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C (Internal choice)	K3	10	1x10=10 (1 out of 2 questions, 150 words)
	K4	10	1x10=10 (1 out of 2 questions, 150 words)
D (Internal choice)	K5	5	1x5=5 (1 out of 2 questions, 100 words) [questions based on passages from the syllabus]
	K6	5	1x5=5 (1 out of 2 questions, 100 words) [questions based on unseen texts]

Other Components:**Total Marks: 50**

Assignment / Seminar / Presentation / Take Home Test / Open Book Test / Quiz Panel
Discussion / Group Presentation / Role-Play / Dramatisation / Creative Writing

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	[Objective Type questions] - 4 subsections Choose, Assertion and Reason, Fill in the blanks, Match, True or False [OR] 4x5=20 questions Answer any 4 out of 6 in 75 words each
B	K2	20	2x10=20 (Answer any 2 out of 4 in 150 words)
C (Internal choice)	K3	20	1x20=20 (Answer any 1 out of 2 in 400 words)
	K4	20	1x20=20 (Answer any 1 out of 2 in 400 words)
D (Internal choice)	K5	10	1x10=10 (Answer any 1 out of 2 in 150 words) [Passage analysis - from the syllabus]
	K6	10	1x10=10 (Answer any 1 out of 2 in 150 words) [Passage analysis - unseen]

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/AC/SW15												
	Course Title: Introduction to Subaltern Writing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 2	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 3	3	3	3	3	2	2	3	3	3	3	3	3	3
CO 4	2	3	3	3	2	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23CE/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23CE/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

WRITING FOR THE MEDIA

CODE: 23CE/MC/WM23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce students to different kinds of media
- To acquaint students with effective information-gathering skills and techniques
- To familiarise students in the key principles of news writing and the specific requirements for writing for different media
- To train students to write different kinds of news reports and feature stories
- To facilitate students to review and create anchor scripts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	define terms and concepts in media writing	K1
CO2	compare and contrast different kinds of media writings	K2
CO3	identify newsworthy stories and credible information from varied sources	K3
CO4	analyse data gathered through research, field notes, and interviews for various media writings	K4
CO5	review reporters' notes and create anchor scripts for radio and television programmes	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Different Kinds of Media and their Characteristics 1.2 Differences between Writing for the Media and other Kinds of Writing 1.3 Differences between Writing for the Audio/Visual Media and Print Writing	K1 - K6	10	1-5

2	Print Media – Writing News Reports and Features 2.1 What is News? What is a Feature? 2.2 Using Resources 2.2 The Inverted Pyramid Structure 2.3 Writing the Lead 2.4 Developing the News Story	K1 - K6	12	1-5
3	Broadcast Media 3.1 Radio 3.1.1 Writing Anchor Scripts for Radio Programmes 3.2 Television 3.2.1 Writing Anchor Scripts for Television Programmes	K1 - K6	10	1-5
4	New Media 4.1 Writing Reports and Features for the Web	K1 - K6	10	1-5
5	Social Media 5.1 Blogs 5.2 Instagram, X, etc.	K1 - K6	10	1-5

BOOKS FOR REFERENCE

Chapman, Nigel. *Digital Multimedia*. John Wiley and Sons, 2000.

Healy, Chadwick. *Mass Media and Mass Communication*, Cambridge, 1991.

Hohenberg, John. *The Professional Journalist*. Oxford & IBH Publishing Co., Calcutta, Fourth Edition, 1978.

Mass Media in India 2000. Ministry of Information and Broadcasting, New Delhi, 2000.

Mencher, Melvin. *Basic Media Writing*. Brown and Benchmark, 1996.

Rivers, L. William. *The Mass Media: Reporting, Writing, Editing*. Harper & Row Publishers, Second Edition, 1964.

Sharples, Mike. *How We Write: Writing as Creative Design*. Routledge, 1998.

Manual for Writers & Editors. Merriam-Webster Collegiate Dictionary, 2003.

Wells, Gordon. *Be a Successful Writer: 99 Surefire Checklists*. Allison & Busby, 2001.

WEB SOURCES

oxfordre.com

newsu.org

learno.net/courses/mapping-for-journalists

ONLINE COURSES

English for Journalism- <https://www.coursera.org/learn/journalism>

Print and Broadcast Journalism- https://onlinecourses.swayam2.ac.in/cec21_ge13/preview

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
D	K4	10	1x10=10 (1 out of 2 questions, 150 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 150 words) Two sub-questions carrying 5 marks each

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/ Quiz/ Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
D	K4	20	1x20=20 (1 out of 2 questions, 250 words)
E	K5, K6	20	1x20=20 (1 out of 2 questions, 250 words) Two sub-questions carrying 10 marks each

Section A – Application-based questions from Units 1, 2 and 5 (E.g. matching headlines with synopsis of the news stories, framing headlines, writing summary leads based on the reporter's notes, etc.)

Section B – News report writing: based on reporter's notes following the Inverted Pyramid Style

Section C – News report writing: on any event held on campus

Feature article: with headline, creative lead and a caption based on the reporter's notes and pictures.

Section D – Writing for the Web

Section E – Script Writing: Radio & TV anchor.

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/WM23												
	Course Title: Writing for the Media												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	2	2	2	3	3	3	3
CO 2	3	3	2	3	3	2	2	2	2	3	3	3	3
CO 3	3	3	2	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	2	3	3	3	3	3	3	3	3	3	3
CO 5	2	3	2	3	3	3	3	3	3	3	2	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023 - 2024)

INTRODUCTION TO DRAMA AND FICTION

CODE: 23CE/MC/DF25

CREDITS: 5

LTP: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce drama and fiction as a social product and a literary form
- To introduce students to the formal aspects and characteristics of drama and fiction
- To familiarise students with the characteristics of the sub-genres of drama and fiction
- To facilitate a close reading of plays, novels and short stories
- To train students to use concepts and techniques in the critical analysis of drama and fiction

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	define various dramatic forms, techniques, devices and different aspects of fiction.	K1, K2
CO2	relate dramatic forms and techniques to plays and aspects of fiction to short stories and novels.	K3
CO3	apply literary concepts pertaining to drama and fiction.	K4
CO4	examine the use of techniques and devices in plays, short stories and novels that help in exploring ideas and issues	K5
CO5	evaluate the texts with reference to techniques, devices and formal elements of drama and fiction and formulate critical responses to them.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Elements, Devices, Types and Styles of Drama 1.1 Elements & Devices: plot, structure, characters, setting, stage directions, dialogue, soliloquy, aside, irony 1.2 Types: tragedy, comedy, tragicomedy, melodrama, farce 1.3 Styles: realism, epic theatre, absurdist drama, experimental theatre	K1-K6	10	1-5
2	Drama 2.1 Shakespeare: <i>Macbeth</i> 2.2 Anton Chekhov: <i>A Marriage Proposal</i> 2.3 Girish Karnad: <i>Hayavadana</i>	K1-K6	25	1-5
3	Aspects and Genres of Fiction 3.1 Aspects of the Novel: plot, characterisation, point of view / focalisation, theme, setting 3.2 Genres: epistolary, picaresque, bildungsroman, gothic, detective fiction, historical, science fiction, dystopian 3.3 Features of the Short Story	K1-K6	10	1-5
4	Fiction 4.1 Harper Lee: <i>To Kill a Mockingbird</i> 4.2 Shirley Jackson: <i>The Lottery</i> 4.3 Margaret Atwood: <i>There Was Once</i>	K1-K6	25	1-5
5	Practical Application Tasks	K5& K6	8	4&5

BOOKS FOR REFERENCE

Correa, Delia Da Sousa, ed. *The Nineteenth Century Novel*. Routledge, 2000.
Eagleton, Terry. *The English Novel: An Introduction*. Blackwell Publishing, 2005.
Edmiston, William F. "Focalization and the First-Person Narrator: A Revision of the Theory Poetics Today." Vol. 10, No. 4 (Winter, 1989), pp. 729-744, Duke University Press.
Forster, E.M. *Aspects of the Novel*. Penguin, 2005. (Chapters II, III, IV, V.)
Hale, Dorothy J., ed. *The Novel: An Anthology of Criticism and Theory: 1900-2000*. Wiley-Blackwell, 2005.
Leech, Clifford. *Tragedy: The Critical Idiom*. Routledge, 2017.
Patea, Viorica. *Short Story Theories. A Twenty-First-Century Perspective*. Brill, 2015.
Wiles, David. *Shakespeare's Clown: Actor and Text in the Elizabethan Playhouse*, CUP, 2005.

WEB SOURCES

www.dramaonlinelibrary.com
www.writerstheatre.org

ONLINE COURSES

NPTEL : Introduction to Drama: <https://nptel.ac.in/courses/109106054>
Wellesley College: Shakespeare on the Page and in Performance: Young Love: <https://rb.gy/8fx1x>
Wellesley College: Shakespeare on the Page and in Performance: Tragic Love: <https://rb.gy/smm1w>
Twentieth Century Fiction: <https://nptel.ac.in/courses/109106172>
Narrative Mode and Fiction: https://onlinecourses.nptel.ac.in/noc23_hs61/preview

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 75 words)
B	K2	10	1x10=10 (1 out of 2 questions, 150 words)
C	K3	10	1x10=10 (1 out of 2 questions, 150 words)
D	K4	10	1x10=10 (1 out of 2 questions, 150 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 150 words) Passage analysis Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 75 words)
B	K2	20	2x10=20 (2 out of 3 questions, 150 words)
C	K3	20	1x20=20 (1 out of 2 questions, 250 words)
D	K4	20	1x20=20 (1 out of 2 questions, 250 words)
E	K5, K6	20	1x20=20 (1 out of 2 questions, 250 words) Passage analysis Two sub-questions carrying 10 marks each

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CE/MC/DF25												
	Course Title: Introduction to Drama and Fiction												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	1	2	1	1	1	1	3	3	2	1	1
CO 2	3	3	2	2	1	1	1	1	3	2	1	1	1
CO 3	3	3	2	2	1	1	1	1	3	2	2	2	2
CO 4	2	3	3	3	2	2	2	1	3	2	2	3	2
CO 5	3	3	3	3	2	2	2	2	3	2	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO LINGUISTICS

CODE: 23CE/AC/LG25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the fundamental concepts of linguistics
- To inculcate in students a scientific approach to language
- To equip them with tools to analyse linguistic units
- To acquaint them with different schools of linguistics
- To introduce them to the relationship between language, culture and society

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COS	DESCRIPTION	CL
CO1	recall and label phonemes, morphemes and sentence patterns	K1
CO2	understand and illustrate the issues related to the structure and functioning of language	K2
CO3	apply concepts related to the structure of words and sentences	K3
CO4	analyse sounds and identify patterns of sounds in the English language and examine language, society and culture, and language variations such as social, regional and historical dialects	K4
CO5	compare and contrast language in terms of systematic differences in phonetics, phonology, morphology, syntax and semantics and discuss the socio-cultural variables that impact the production of the varieties of English	K5, K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	Language as Communication 1.1 Characteristics of Human Language 1.2 Human Language as a Signifying System Saussure: Langue and Parole, Syntagm and Paradigm, Arbitrary Nature of Sign, Linear Nature of the Signifier 1.3 Varieties of Language – Dialect, Idiolect, Register	K1-K6	15	1-5
2	Phonology 2.1 Segmental Phonemes 2.1.1 Cardinal Vowel Scale 2.1.2 Classification of Vowels and Consonants in English 2.2 Supra-Segmental Features 2.2.1 Word and Sentence Stress 2.2.2 Intonation	K1-K6	15	1-5
3	Morphology 3.1 Morphemes 3.1.1 Bound and Free Morphemes 3.1.2 Derivatives – Root and Affix 3.1.3 Zero and Empty Morph	K1-K6	10	1-5
4	Grammar 4.1 Traditional Grammar 4.2 Five Basic Sentence Patterns 4.3 I.C Analysis	K1-K6	15	1-5
5	Semantics 5.1 Synonymy, Antonymy, Polysemy 5.2 Hyponymy and Homonymy	K2-K6	10	2-5

BOOKS FOR REFERENCE

Balasubramanian, T. *A Text Book of English Phonetics for Indian Students*. Macmillan India Ltd., 1981.

Crystal, David. *The Cambridge Encyclopaedia of the English Language* Cambridge UP, 2003.

Palmer, Frank. *Semantics: A New Outline*. Cambridge UP, 1977.

---. *Grammar*, second ed. Penguin, 1971.

Piller, Ingrid. *Linguistic Diversity and Social Justice: An Introduction to Applied Sociolinguistics*. Oxford UP, 2016.

Pullum, Geoffrey K. *Linguistics: Why it Matters*. Wiley, 2018.

Yule, George. *The Study of Language – An Introduction*. Oxford UP, 1970.

JOURNALS

Journal of Linguistics

English Language and Linguistics

International Journal of Applied Linguistics

WEB SOURCES

<https://linguistlist.org/>

<http://www.everytongue.com/>

<http://web.uvic.ca/ling/data/IPAlab/IPAlab.htm>

<https://www.linguisticsociety.org/what-linguistics>

ONLINE COURSES

Introduction to Language and Linguistics: https://onlinecourses.nptel.ac.in/noc23_hs87/preview

Applied Linguistics: https://onlinecourses.nptel.ac.in/noc22_hs85/preview

Human Language: <https://www.coursera.org/learn/human-language>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 (Three term Labels) CA 1 5x1=5 (IPA symbols for the given Three Term Labels) CA 2 5x1=5 (Labelling vowels and plotting on the Vowel Chart) CA 2
B	K2	10	5x2=10 (Locate the primary stress in the given words) CA 1 5x2=10 (Sentence Pattern - Classify) CA 2
C	K3	10	5x2=10 (Transcription) CA 1 10x1=10 (Morphemic Analysis) CA 2
	K4	10	2x5=10 (2 out of 3 questions, 75 words) CA 1 4x2.5=10 (IC Analysis of sentences) CA 2
D	K5	5	1x5=5 (1 out of 2 questions, 75 words)
	K6	5	1x5=5 (1 out of 2 questions, 75 words)

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	10x1=10(Three term Labels) 5x1=5 (IPA symbols for the given TTL) 5x1=5 (Labelling vowels and plotting on the Vowel Chart)
B	K2	20	5x2=10 (Sentence Pattern - Classify) 5x2=10 (Locate the primary stress in the given words)
C	K3	20	5x2=10 (Transcription) 10x1=10 (Morphemic Analysis)
	K4	20	4x2.5=10 (IC Analysis of sentences) 2x5=10 (2 out of 3 questions, 75 words)
D	K5	10	1x10=10 (1 out of 2 questions, 150 words)
	K6	10	1x10=10 (1 out of 2 questions, 150 words)

(Alternative questions to be set for students with special needs, in Section A and transcription in Section C)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/AC/LG25												
	Course Title: Introduction to Linguistics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	1	1	3	1	3	1	1
CO 2	3	3	3	3	3	3	1	2	2	1	3	1	1
CO 3	3	3	3	3	3	1	1	2	3	2	3	1	1
CO 4	3	3	3	3	3	1	1	3	3	3	3	2	1
CO 5	3	3	3	3	3	1	2	3	3	3	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

ACADEMIC WRITING

CODE: 23CE/MC/AW33

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To hone the academic writing skills of students
- To train students in writing analytical paragraphs, essays and reports
- To enable students to write with academic integrity
- To enable students to formulate and express ideas and opinions in clear, concise prose
- To equip them with skills to describe and synthesise new ideas in writing

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the features of academic writing and relate them to the ethics of academic writing	K1
CO2	understand academic writing conventions in a wide range of formats and demonstrate the various stages in writing an academic paper	K2
CO3	plan the micro and macro structure of writing an academic paper and organise the arguments and utilise different documentation styles	K3
CO4	choose and analyse information from varied sources to write effectively	K4
CO5	formulate and synthesise new ideas and opinions in writing to create grammatically correct, ethically sound, well-organised pieces of writing	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 What is Academic Writing? 1.1.1 Ethics of Academic Writing 1.1.2 Tone, Register, Purpose, Vocabulary, Grammar 1.1.3 Kinds of Research Papers—Articles, Assignments, Term papers, Projects 1.2 Basics of Writing 1.2.1 Writing a Plan 1.2.2 Outlines 1.2.3 Introduction, Body and Conclusion	K1, K2	10	1,2
2	Pre-Writing Strategies 2.1 Brainstorming 2.2 Background and Research 2.3 Stages in Writing an Academic Paper 2.4 Planning the Arguments 2.5 Mechanics of Documentation	K2, K3	10	2,3
3	Writing an Academic Essay 3.1 Organising a Paragraph 3.2 Analytical Essay 3.3 Argumentative Essay 3.4 Documentation	K1-K6	12	1-5
4	Writing Reports 4.1 Different Parts of a Report 4.2 Analysing data 4.3 Writing a Report	K1-K6	12	1-5
5	Practical Application Tasks Specific tasks relevant to the concepts and techniques discussed in Units 1 to 4	K5-K6	8	5

BOOKS FOR REFERENCE

Bowden, John. *Writing a Report*. Little, Brown and Company, 2011.

Cooley, Thomas. *The Norton Guide to Writing*. W.W. Norton and Company, New York, 1992.

Day, Trevor. *Success in Academic Writing*. Palgrave Macmillan, New York, 2013.

McWhorter, Kathleen and Candalene J McCombs. *Write to Read and Read to Write*. Little, Brown and Company, 1983.

Reid, Stephen. *The Prentice Hall Guide for College Writers*. Prentice Hall Inc., New Jersey, 1989.

Swales, John. *Academic Writing for College Students*. University of Michigan Press, 1994.

WEB SOURCES

<https://www.biz-e-training.com/resources-for-learners/academic-writing-online-resources/>

https://owl.purdue.edu/owl/general_writing/academic_writing/index.html

ONLINE COURSES

Academic Writing Core Concepts-<https://www.udemy.com/course/academic-writing-core-concepts/>

Essay Writing for English Language Learners-

<https://www.udemy.com/course/essay-writing-for--english-language-learners/>

Academic Writing and Publishing-

<https://www.udemy.com/course/humanities-academic-writing-and-publishing/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 200 words) Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Presentation/Group Presentation/Writing Tasks

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 100 words)
B	K2	20	2x10=20 (2 out of 3 questions, 200 words)
C	K3	20	1x20=20 (1 out of 2 questions, 300 words)
D	K4	20	1x20=20 (1 out of 2 questions, 300 words)
E	K5, K6	20	1x20=20 (1 out of 2 questions, 300 words) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/AW33												
III	Course Title: Academic Writing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	1	1	1	1	1	1	3	2	1	1
CO 2	2	2	2	1	1	1	1	1	1	3	2	1	1
CO 3	2	3	2	1	2	1	1	1	1	3	2	1	1
CO 4	2	3	2	2	3	2	1	1	2	3	2	2	2
CO 5	2	3	2	2	3	2	1	1	2	3	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

LITERATURE OF THE BRITISH ISLES

CODE: 23CE/MC/BL34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the various genres and movements of the British literary tradition
- To help students understand the complexities of literary production in the context of the changing socio-political milieu of the British Isles
- To enable students to examine the literary works originating from the diverse traditions and culture of Britain
- To equip students with the critical skills to engage with the literary tradition of the region
- To train them to interpret and interrogate texts with respect to the socio-cultural and political background of the times

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	show adequate knowledge of significant literary trends of Britain across periods	K1
CO2	demonstrate an understanding of the trajectory of Literature of the Island	K2
CO3	identify the diverse socio-cultural aspects and multiplicities of expression in British Literature	K3
CO4	examine literature of Britain as an outcome of its traditions and cultures and critically analyse the dynamics of narratives in the context of the changing socio-political milieu of Britain	K4
CO5	build critical responses and evaluate literary texts with respect to the socio-cultural and political background	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Sixteenth and Seventeenth Centuries 1.1 Edmund Spenser: Sonnet 75 (from <i>Amoretti</i>) 1.2 Francis Bacon: Of Friendship 1.3 George Herbert: The Collar	K1-K6	10	1-5
2	Eighteenth Century 2.1 Daniel Defoe: <i>Robinson Crusoe</i> 2.2 Alexander Pope: <i>The Rape of the Lock</i> (Canto 1) 2.3 William Blake: The Chimney Sweeper	K1-K6	13	1-5
3	Nineteenth Century 3.1 William Wordsworth: Upon Westminster Bridge 3.2 Charlotte Bronte: <i>Jane Eyre</i> 3.3 G.M. Hopkins: God's Grandeur	K1-K6	12	1-5
4	Twentieth and Twenty-first Centuries 4.1 J.M. Synge: <i>Riders to the Sea</i> 4.2 D.H. Lawrence: Snake 4.3 Harold Pinter: <i>The Birthday Party</i> 4.4 Ian Russell McEwan: <i>On Chesil Beach</i> 4.5 Kazuo Ishiguro: <i>The Remains of the Day</i>	K1-K6	20	1-5
5	Practical Application Tasks	K5-K6	10	5

BOOKS FOR REFERENCE

Alexander, Michael. *A History of English Literature*. Bloomsbury Publishing, 2017.
 Arata, Stephen, et al. *A Companion to the English Novel*. John Wiley & Sons, 2019.
 Bates, Catherine. *A Companion to Renaissance Poetry*. Wiley Blackwell, 2018.
 Bennett, Michael Y. *The Cambridge Introduction to Theatre and Literature of the Absurd*. Cambridge University Press, 2015.
 Gilbert, Sandra and Susan Gubar. *Mad Woman in the Attic: The Woman Writer and the Nineteenth Century Literary Imagination*. Yale University Press, 2020.
 Lodge, David. *The Modes of Modern Writing*. Bloomsbury Publishing, 2015.
 Ritcher, David H. *Reading the Eighteenth Century Novel*. Wiley Blackwell, 2017.
 Thwaite, Anthony. *Poetry Today: A Critical Guide to British Poetry*. Taylor & Francis, 2016.

JOURNALS

ARIEL: A Review of International English Literature
Journal of Commonwealth Literature
Renaissance Quarterly
Victorian Literature and Culture

WEB SOURCES

<http://www.bartleby.com/224/index.html#9>
<http://www.janeausten.org>
<http://www.poetryfoundation.org>
<http://criticalflame.org/>

ONLINE COURSES

History of English Language and Literature:
<https://archive.nptel.ac.in/courses/109/106/109106124/>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 200 words) Passage analysis from the prescribed texts Two sub-questions carrying 5 marks each

Other Components: Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 100 words)
B	K2	20	2x10=20 (2 out of 3 questions, 200 words)
C	K3	20	1x20=20 (1 out of 2 questions, 300 words)
D	K4	20	1x20=20 (1 out of 2 questions, 300 words)
E	K5, K6	20	1x20=20 (1 out of 2 questions, 300 words) Passage analysis from the prescribed texts Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/BL34												
III	Course Title: British Literature												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	2	1	2	1	3	2	2	3	3
CO 2	3	3	2	1	2	1	2	1	3	2	2	3	3
CO 3	3	3	3	1	2	1	2	1	3	2	3	3	3
CO 4	3	3	3	1	3	1	2	2	3	3	3	3	3
CO 5	3	3	3	1	3	2	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023–2024)

LITERATURE AND IDEAS

CODE: 23CE/AC/LI35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with the major schools of thought that have impacted literature
- To enable students to make connections between concepts from various schools of philosophy
- To guide students to an understanding of the major shifts in schools of thought
- To train students to analyse literary texts using these ideas as frames of reference
- To provide students with a critical understanding of real life using concepts from major schools of thought

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the concepts of major schools of thought and relate them to their appropriate contexts.	K1
CO2	compare and contrast the relationship between different schools of thought	K2
CO3	identify the major philosophical concepts in literary texts.	K3
CO4	critically analyse literary texts using these concepts.	K4
CO5	evaluate literary texts and develop a critique of real life using these concepts.	K5-K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Romanticism 1.1 Rousseau: The Social Contract - General Will, Particular Will, Noble Savage, Sovereign, State of Nature 1.2 Immanuel Kant: Critique of Pure Reason - a priori, a posteriori, Analytic, Synthetic, Noumena, Phenomena 1.3 G.W.F. Hegel: Phenomenology of the Mind - Absolute Consciousness, Totality, Negation, Hegelian Triad, Self-Consciousness, Master-Slave Dialectic Text: William Wordsworth: The Prelude Book I (Lines: 147-249)	K1-6	14	1-5
2	Marxism and Psychoanalysis 2.1 Freud and Jung: Id, Ego and Superego; Collective Unconscious 2.2 Karl Marx: Base and Superstructure Text: Charles Dickens: <i>Hard Times</i> (Chapters 1-5) Sylvia Plath: Mirror	K1-6	12	1-5
3	Existentialism 3.1 Schopenhauer: The World as Will 3.2 Nietzsche: Apollonian and Dionysian Principles 3.3 Sartre: Awful Freedom Texts: Ted Hughes: Tiger Psalm Franz Kafka: <i>Metamorphosis</i>	K1-6	14	1-5
4	Feminist Thought 4.1 Toril Moi: Feminine, Feminist, Female 4.2 bell hooks: Black Women - Shaping Feminist Theory Text: Makbula Manzoor: On the Road (from <i>Galpa: Short Stories by Women from Bangladesh</i>)	K1-6	15	1-5
5	Practical Application Tasks Practical analysis of literary texts/passages applying concepts discussed in the syllabus	K5-6	10	5

BOOKS FOR REFERENCE

- Bhandari, D. R. *History of European Political Philosophy*. Bangalore Printing and Publishing, 1994.
- Beauvoir, Simone De. *The Second Sex*. Vintage Books, 1949. Copplestone, F. A *History of Philosophy*. Burn and Odes, 1959.
- Durant, Will. *The Story of Philosophy*. Simon and Schuster, 1926.
- Howells, Christina, ed. *The Cambridge Companion to Sartre*. Cambridge UP, 1992. Lavine, T.S. *From Socrates to Sartre: The Philosophical Quest*. Bantam Books, 1984. Millet, Kate. *Sexual Politics*. Doubleday, 1970.
- Russell, Bertrand. *History of Western Philosophy*. Unwin, 1979.
- Zima, V., Peter. *Subjectivity and Identity: Between Modernity and Postmodernity*. Bloomsbury, 2015.

WEB SOURCES

<https://plato.stanford.edu/>

<https://www.jmu.edu/philrel/student-resources/philosophy/links-to-philosophy-websites.shtml>

<https://iep.utm.edu/>

https://www.youtube.com/watch?v=BweGI6TK5pQ&list=PLg4lEYaHO--SDCgjDUP1nQbn3_Fztv4LK&index=8

ONLINE COURSES

Introduction to Philosophy: <https://www.coursera.org/learn/philosophy>

Moral Foundations of Politics: <https://www.coursera.org/learn/moral-politics>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	10x1=10 (Multiple Choice Questions)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5,K6	10	1x10=10 (1 out of 2 questions, 200 words) Questions based on a passage not prescribed on the syllabus Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 100 words)
B	K2	20	2x10=20 (2 out of 3 questions, 200 words)
C	K3	20	1x20=20 (1 out of 2 questions, 300 words)
D	K4	20	1x20=20 (1 out of 2 questions, 300 words)
E	K5,K6	20	1x20=20 (1 out of 2 questions, 300 words) Questions based on a passage not prescribed on the syllabus Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/AC/LI35												
	Course Title: Literature and Ideas												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	1	1	2	3	3	3	2	2	2
CO 2	3	3	3	3	1	1	2	3	3	3	2	2	2
CO 3	3	3	3	3	1	1	2	3	3	3	2	3	3
CO 4	3	3	3	3	1	1	2	3	3	3	2	3	3
CO 5	3	3	3	3	1	1	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.V.A. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23CE/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group discussions
Group presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF- FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023–2024)

LITERARY CRITICISM

CODE: 23CE/MC/LC44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to different schools of criticism and theories
- To help them understand the interrelationship between different schools of criticism
- To enable students to identify key orientations in schools of literary criticism
- To equip students with the knowledge of concepts from various schools of criticism
- To train them with the critical skills to apply theoretical concepts to literary texts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define concepts related to different schools of literary criticism	K1
CO2	outline and compare the foundational principles of different schools of literary criticism	K2
CO3	apply concepts of criticism to interpretation of literary texts	K3
CO4	analyse literary texts using relevant critical concepts	K4
CO5	evaluate the strengths and limitations of various principles of criticism and formulate critical responses to texts	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Literary Criticism 1.1. Mimetic, Pragmatic, Expressive and Objective Orientations M.H Abrams: <i>The Mirror and the Lamp</i> (pp. 3 – 26) Classical Criticism 1.2. Aristotle: <i>Poetics</i> Chapters 1,2,4,5,6,7,8 Text for Analysis Sophocles: <i>Oedipus Rex</i>	K1-K6	15	1-5
2	Elizabethan, Romantic, Victorian and Modern Criticism 2.1. Philip Sidney: Extract from <i>Apology for Poetry</i> (from V.S. Sethuraman : Among the Romans ...to teach and delight. pp. 46 – 49) 2.2. Samuel Coleridge: <i>Biographia Literaria Chapter XIII : Fancy and Imagination</i> 2.3. Matthew Arnold: <i>The Study of Poetry</i> (Touchstone Method) 2.4. T.S Eliot: <i>Tradition and Individual Talent</i>	K1-K6	15	1-5
3	New Criticism, Structuralism and Semiotics 3.1. Cleanth Brooks: <i>Language of Paradox</i> 3.2. Raman Selden: <i>Binary Oppositions</i> 3.3. Tzvetan Todorov: <i>The Typology of Detective Fiction</i>	K1-K6	15	1-5
4	Contemporary Literary Theories and Criticisms 4.1 Reader Response Theory 4.1.1 Wolfgang Iser: <i>Interaction Between Text and Reader</i> 4.2 Postcolonial Theory 4.2.1 Abrogation, Alienation, Appropriation, Diaspora, Identity, Imperialism (from Ashcroft et al: <i>Key Concepts in Post-Colonial Studies</i>) 4.3 Ecocriticism 4.3.1 Arne Naess and George Sessions: <i>The Basic Principles of Deep Ecology</i>	K1-K6	10	1-5
5	Practical Application Tasks Practical analysis of literary texts/passages applying concepts discussed in the syllabus	K5, K6	10	5

BOOKS FOR REFERENCE

- Ashcroft, Bill, et al. *Key Concepts in Post-colonial Studies*. Psychology Press, 1998.
- Habib, M.A.R. *A History of Literary Criticism and Theory: From Plato to the Present*. Wiley-Blackwell, 2005.
- Holland, Owen and Piero. *Introducing Literary Criticism: A Graphic Guide*. Icon Books, 2016.
- Lodge, David and Nigel Wood. *Modern Criticism & Theory*. 3rd Ed. Taylor & Francis, 2014.
- Naess, Arne. *The Ecology of Wisdom: Writings by Arne Naess*. Penguin Books Ltd, 2016.
- Robinson, Dave. *Introducing Plato: A Graphic Guide*. Icon Books, 2011.
- Selden, Raman. *The Theory of Criticism: From Plato to the Present: A Reader*. Routledge, 2017.
- Selden and Widdowson. *Contemporary Critical Theory*. 5th Ed. The UP of Kentucky, 2005.
- Wilfred et al. *A Handbook of Critical Approaches to Literature*. 5th Ed. Oxford UP, 2005.
- Wimsatt, William and Cleanth Brooks. *Literary Criticism: A Short History*. Knopf, 1964.
- Woodfin, Rupert and Judy Groves. *Introducing Aristotle: A Graphic Guide*. Icon Books, 2012.

WEB SOURCES

<https://plato.stanford.edu/>

<https://plato.stanford.edu/entries/aristotle-aesthetics/>

<https://www.jstor.org/stable/20875614>

<https://in.coursera.org/specializations/introduction-to-biology>

JOURNALS

Poetics

PMLA

Narrative. University of Ohio Press

Criterion: A Journal of Literary Criticism. Birmingham Young University

ONLINE COURSES

Saylor Academy: Introduction to Literary Theory: <https://www.mooc-list.com/course/introduction-literary-theory-saylororg>

IIT Kanpur: Introduction to Literary Theory: https://onlinecourses.nptel.ac.in/noc20_hs82/preview

PATTERN OF ASSESSMENT

Unit 1.1 is not for testing.

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5 & K6	10	1x10=10 (1 out of 2 questions, 200 words) Passage from <i>Oedipus Rex</i> for CA I Passage from unseen texts for CA II Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 100 words)
B	K2	20	2x10=20 (2 out of 3 questions, 200 words)
C	K3	20	1x20=20 (1 out of 2 questions, 300 words)
D	K4	20	1x20=20 (1 out of 2 questions, 300 words)
E	K5 & K6	20	1x20=20 (1 out of 2 questions, 300 words) Passage analysis from unseen texts Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/LC44												
	Course Title: Literary Criticism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	1	1	1	2	2	3	2	2	2
CO 2	3	3	2	3	1	1	1	2	2	3	2	2	2
CO 3	3	3	2	3	1	1	1	2	3	3	3	3	3
CO 4	3	3	2	3	1	1	1	2	3	3	3	3	3
CO 5	3	3	2	3	1	1	1	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-24)

CONTEMPORARY WORLD LITERATURE

CODE: 23CE/MC/CW45

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce students to writers and texts from across the world that represent the contemporary milieu
- To enable students to read, analyse and assess world literature in the light of global, national and other topical themes, issues and contexts
- To engage with the collaborations, cross-overs and confrontations of various identities and cultures from across the world
- To help learners achieve accessibility to international literary forms.
- To develop in students a deeper understanding and awareness of contemporary issues in relation to their lives

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define significant trends and thematic patterns incorporated by contemporary authors during the period	K1
CO2	demonstrate an understanding of the different genres of literature that reflect the contemporary times	K2
CO3	identify and appreciate hybrid and cultural identities of the twenty-first century texts from across the world	K3
CO4	analyse the dynamics of the narratives in the context of global, national and other topical issues and compare texts to arrive at a better understanding of the contemporary world	K4
CO5	interpret literary texts with respect to the social, political, economic and cultural contexts and formulate critical responses	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Poetry 1.1 Mourid Barghouti: A Night Unlike Others (Palestinian) 1.2 Wisława Szymborska: Lot's Wife (Polish) 1.3 Edward Kamau Brathwaite: Limbo (Barbadian) 1.4 Solli Raphael: Australian Air (Australian, slam poetry) 1.5 Bob Dylan: Like A Rolling Stone (American, song)	K1-K6	15	1-5
2	Non-fiction 2.1 Sejal Shah: Betsy, Tacy, Sejal and Tib from <i>This is One Way to Dance</i> (Indian American, memoir) 2.2 Wangari Maathai: Nobel Prize Acceptance Speech (Kenyan)	K1-K6	15	1-5
3	Short Story 3.1 Haruki Murakami: The Second Bakery Attack (Japanese) 3.2 Gabriel Garcia Márquez: A Very Old Man With Enormous Wings (Columbian) 3.3 Emily Carroll: Our Neighbor's House & His Face All Red from <i>Through the Woods</i> (Canadian, graphic novel)	K1-K6	25	1-5
4	Novel & Novella 4.1 Neon Yang: <i>The Black Tides of Heaven</i> (Singaporean) 4.2 Fredrik Backman: My Grandmother Asked Me to Tell You She's Sorry (Swedish)	K1-K6	15	1-5
5	Drama 5.1 Ayad Akhtar: <i>Disgraced</i> (Pakistani American)	K1-K6	8	1-5

BOOKS FOR REFERENCE

Baetens, Jan and Hugo Frey. *The Graphic Novel: An Introduction*. Cambridge University Press, 2015.

Dawisha, Adeed. *Arab Nationalism in the Twentieth Century: From Triumph to Despair*. Princeton University Press, 2016.

Etherington, Ben and Jarad Zimble, editors. *The Cambridge Companion to World Literature*. Cambridge University Press, 2018.

Küpper, Joachim, editor. *Approaches to World Literature*. Walter de Gruyter, 2013.

McCloud, Scott. *Understanding Comics: The Invisible Art*. Harper Perennial, 1994.

Reddy, Bayapa, editor. *Aspects of Contemporary World Literature*. Atlantic, 2008.

Schwarz, Henry and Sangeeta Ray, editors. *A Companion to Postcolonial Studies*. Blackwell, 2000.

Tabachnik, Stephen E., editor. *The Cambridge Companion to the Graphic Novel*. Cambridge University Press, 2017.

ONLINE COURSES

Harvard University: Modern Masterpieces of World Literature:

<https://www.edx.org/learn/literature/harvard-university-modern-masterpieces-of-world-literature>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 200 words) Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 100 words)
B	K2	20	2x10=20 (2 out of 3 questions, 200 words)
C	K3	20	1x20=20 (1 out of 2 questions, 300 words)
D	K4	20	1x20=20 (1 out of 2 questions, 300 words)
E	K5 & K6	20	1x20=20 (1 out of 2 questions, 300 words) Passage analysis from unseen texts Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 19/CE/MC/CW45												
	Course Title: Contemporary World Literature												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	1	1	2	2	2	2	2	2
CO 2	3	3	2	2	1	1	1	1	3	2	1	1	2
CO 3	2	3	3	2	1	1	2	2	3	2	3	3	3
CO 4	2	3	3	2	1	2	2	2	3	2	3	3	3
CO 5	3	3	3	3	2	2	2	2	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

LITERATURE AND GENDER

CODE: 23CE/AC/GD45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint students with the historical development and progression of Gender and Queer Studies.
- To help students understand gender construction and perpetuation in society
- To familiarise students with literary works originating in relation to gender dynamics and gendered ways of thinking
- To enable students to analyse the multifaceted dimensions of gender, including its intersectionality with race, class, sexuality, and other social constructs
- To equip students with the critical skills to interpret and interrogate literary texts and extend this understanding to real life contexts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	show adequate knowledge of the history and development of Gender and Queer Studies	K1
CO2	demonstrate an understanding of how society constructs and perpetuates gender roles and norms.	K2
CO3	identify literary works within the context of gender specific viewpoints	K3
CO4	examine the complex aspects of gender, considering how it intersects with race, class, sexuality, and various social constructs	K4
CO5	evaluate and formulate critical responses to literary texts with a focus on gender norms and stereotypes.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Judith Lorber: Night to His Day: The Social Construction of Gender 1.2 Kimberlé Crenshaw: Introduction from Mapping the Margins: Intersectionality, Identity Politics, and Violence against Women of Color	K1 - K6	13	1-5
2	Poetry & Short Story 2.1 Adrienne Rich: Snapshots of a Daughter-in-law 2.2 Grace Nichols: The Fat Black Woman Goes Shopping 2.3 Rudyard Kipling: If 2.4 Mary Jean Chan: The Window 2.5 Mrinal Pande: Girls	K1 - K6	12	1-5
3	Fiction & Autobiography 3.1 Shyam Selvadurai: <i>Funny Boy</i> 3.2 Revathi: <i>The Truth About Me: A Hijra Life Story</i>	K1 - K6	17	1-5
4	Drama 4.1 Caryl Churchill: <i>Top Girls</i>	K1 - K6	15	1-5
5	Practical Application Tasks Analysing literary texts or passages through the practical application of gender-related concepts.	K5 & K6	8	5

BOOKS FOR REFERENCE

- Bhasin, Kamla. *Understanding Gender*. Kali for Women, 2000.
- Bhuthalia, Urvashi. "Confrontation and Negotiation: The Women's Movement's Response to Violence Against Women," *The Politics of Gender, Identity and Social Equality in India*. Kali for Women, 2002. pp. 207-33.
- Cann, Victoria. *Girls Like This, Boys Like That: Understanding the (Re)Production of Gender in Contemporary Youth Cultures*. I.B Tauris, 2018.
- Foran, John. "Alternatives to Development: Of Love, Dreams and Revolution," *Feminist Futures: Reimagining Women Culture and Development*. Ed. Kumkum Bhavnani, John Foran and Priya Kurian, Zubaan, 2003. pp. 268-274.
- Mackinnon, Catherine. "Towards a Feminist theory of State" *Feminisms*. Ed. Sandra Kemp and Judith Squires, 1997, pp. 351-358.
- Mies, Maria and Vandana Shiva. *Ecofeminism*. Zed Books, 1993.
- Rich, Adrienne. "When We Dead Awaken: Writing as Re-vision," *Adrienne Rich's Poetry*, Ed. Barbara Charles and Albert Gelpi, Norton, 1995, pp. 90-98.
- Sen, Amartya. "Gender and Co-operative Conflicts," *Capabilities, Freedom and Equality*, Ed. Bina Agarwal, Jane Humphries, Ingrid Robeyns, 2006, pp. 458-84.

JOURNALS

- Indian Journal of Gender Studies (Sage)*
A Journal of Feminist Cultural Studies
Feminist Review
A Journal of Women Studies

WEB SOURCES

<http://www.feministreview.com>

<http://fty.sagepub.com>

<http://dukeupress.edu/cameraobscura>

ONLINE COURSES

NPTEL Contextualizing Gender: https://onlinecourses.nptel.ac.in/noc22_hs51/preview

edX.org The University of Iceland: Gender and Intersectionality

<https://learning.edx.org/course/course-v1:UicelandX+UI03+1T2023/home>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5 & K6	10	1x10=10 (1 out of 2 questions, 200 words) Passage analysis from the prescribed texts Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 100 words)
B	K2	20	2x10=20 (2 out of 3 questions, 200 words)
C	K3	20	1x20=20 (1 out of 2 questions, 300 words)
D	K4	20	1x20=20 (1 out of 2 questions, 300 words)
E	K5 & K6	20	1x20=20 (1 out of 2 questions, 300 words) Passage analysis from the prescribed texts Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/AC/GD45												
	Course Title: Literature and Gender												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	3	3	3	2	2	3	3
CO 2	3	3	2	2	1	1	3	3	2	2	3	3	3
CO 3	2	3	3	2	1	1	2	3	3	3	3	3	3
CO 4	2	3	3	2	1	2	2	2	3	2	3	3	3
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

ENGLISH LANGUAGE TEACHING

CODE: 23CE/MC/LT55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To distinguish between language acquisition and language learning
- To explain the components of the curriculum, different kinds of tests and evaluation
- To explain the theories related to the psychology of language learning
- To demonstrate the understanding of methods and approaches of English Language Teaching in microteaching
- To evaluate the needs of the different levels of learners and design materials and lesson plans for teaching the four skills of language

COURSE LEARNING OUTCOMES

On successful completion of the course the student will be able to

COs	DESCRIPTION	CL
CO1	define language acquisition and language learning; identify the theories related to psychology of language learning; recognise the various teaching approaches and methods in language teaching; describe the various kinds of tests and their purposes.	K1
CO2	differentiate between language acquisition and language learning; demonstrate an understanding of the theories related to psychology of language learning; summarise various teaching approaches and methods in language teaching; distinguish between the various kinds of tests and their purposes.	K2
CO3	demonstrate knowledge about language skills, appropriate teaching methods and the different tasks that could be used to train language learners; apply the theories related to psychology of language learning in language teaching.	K3
CO4	analyse the needs of the learners belonging to diverse backgrounds and select appropriate teaching approaches and methods in teaching them.	K4
CO5	evaluate the needs of the learners and create lesson plans and lessons to develop their overall language competence.	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Language Acquisition 1.1 First Language Acquisition of the Child 1.1.1 Lateralization of the Brain 1.1.2 Learning by Imitation 1.1.3 Language Acquisition Devices 1.1.4 Generalisation 1.2 Second Language Learning of the Adult 1.2.1 Mother tongue Interference 1.2.2 Psychological and Sociological Factors Influencing Second Language Learning	K1-K6	13	1-5
2	Psychology of Learning 2.1 Behaviourism 2.1.1 Behaviourist Psychology 2.1.2 Stimulus–Response Learning 2.1.3 Reinforcement 2.2 Cognitive Learning 2.2.1 Cognitive Structure 2.2.2 Concept Formation 2.2.3 Theory of Subsuming 2.2.4 Theory of Forgetting 2.2.5 Bloom’s Taxonomy 2.3 Humanistic Approach to Learning 2.3.1 The Teacher–Student Relationship	K1-K6	15	1-5
3	Approaches, Methods and Techniques in Language Teaching 3.1 A survey of the Grammar Translation Method, the Situational Method and the Audio-Lingual Method 3.2 Communicative Approach 3.2.1 Communicative Competence as different from Linguistic Competence 3.2.2 The Teacher's Role—The Student's Role 3.2.3 Task- based activities in the class 3.3 Skills Approach 3.3.1 Teaching Reading Skills—Skimming, Scanning and Intensive Reading 3.3.2 Teaching Listening Skills—Listening for Specific Details, Keywords, Concepts 3.3.3 Teaching Speaking Skills—Expressing Ideas, Opinions, Presenting an Argument 3.3.4 Teaching Writing Skills—Writing a Paragraph—Topic Sentence, Main Idea, Supporting Ideas, Concluding Sentence—Descriptive and Narrative Writing	K1-K6	20	1-5

4	Syllabus 4.1 Definition of Syllabus and Curriculum 4.1.1 The Components of a Syllabus 4.1.2 Testing and Evaluation 4.2 Kinds of Tests 4.2.1 Placement Test 4.2.2 Diagnostic Test 4.2.3 Progress Test 4.2.4 Achievement Test 4.2.5 Proficiency Test 4.3 Criteria involved in Validity and Reliability	K1-K6	15	1-5
5	Materials Production 5.1 Use of Conventional Resources 5.2 Use of Audio visual Aids and Technology	K1-K6	15	1-5

BOOKS FOR REFERENCE

- Fulcher, Glen and Fred Davidson. *Language Testing Assessment*. Routledge, 2007.
- Hall, Graham. *Exploring English Language Teaching: Language in Action*, 2 ed. Routledge, 2017.
- Krashen, Stephen D. *Second Language Acquisition and Second Language Learning*. Pergamon Press, 1981.
- Lefrancois, Guy R. *Psychology for Teaching*. Wordsworth Publishing Co., 2000.
- McWhorter, Kathleen. *College Reading and Study Skills*. Little, Brown and Company, 1986.
- Prabhu, N.S. *Communicative Teaching Project*. Bulletin of the Regional Institute of English, 1981.
- Richards, Jack C. and Theodore S. Rodgers. *Approaches and Methods in Language Teaching*. Cambridge UP, 2001.
- Yule, George and Gillian Brown. *Teaching Spoken English*. Cambridge UP, 1983.

WEB SOURCES

- <https://learnenglish.britishcouncil.org/skills>
- <https://www.cambridgeenglish.org/learning-english/>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 150 words)
B	K2	10	1x10=10 (1 out of 2 questions, 250 words)
C	K3	10	1x10=10 (1 out of 2 questions, 250 words)
D	K4	10	1x10=10 (1 out of 2 questions, 250 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, Framing tasks for a given passage) Two sub-questions carrying 5 marks each

Other Components:**Total Marks: 50**

Lesson Plan 20 marks

Micro teaching (teaching their own classmates) 30 marks

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Paper Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 150 words)
B	K2	20	2x10=20 (2 out of 3 questions, 250 words)
C	K3	20	1x20=20 (1 out of 2 questions, 350 words)
D	K4	20	1x20=20 (1 out of 2 questions, 350 words)
E	K5,K6	20	1x20=20 (1 out of 2 questions, Framing tasks for a given passage) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/LT55												
	Course Title: English Language Teaching												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	1	3	3	3	3	3	3
CO 2	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	1	3	3	2	1	3	3	3	2	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

INDIAN LITERATURES I

CODE: 23CE/MC/IL55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce students to Indian Literatures written in various languages from the classical age to the pre-independence era
- To familiarise students to various genres of literature originating from diverse regions across India
- To trace the continuity, interrogation and change from classical to the pre-independence era in Indian Literatures
- To enable students to understand the multiplicity of historical, social, cultural and political milieu of India as reflected in literature
- To critically examine and interact with multifaceted discussions within Indian Literatures

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	show adequate knowledge of Indian Literatures written in various languages from the classical age to the pre-independence era	K1
CO2	demonstrate an understanding of the different genres of Indian Literatures.	K2
CO3	identify the diverse socio-cultural, historical and political expressions in Indian literatures	K3
CO4	analyse and engage critically with polyphonic discourses in Indian Literatures	K4
CO5	formulate critical responses and evaluate literary texts with respect to the socio-cultural and political background.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hours	CO
1	Indian Aesthetics and Thought 1.1 A.K. Ramanujan: Afterword to <i>Poems of Love and War</i> 1.2 Arundhati Subramaniam: Introduction to <i>Eating God: A Book of Bhakti Poetry</i>	K1 - K6	15	1-5
2	Upto the 6th Century AD 2.1 A.K. Ramanujan: Flowering Tree (from <i>The Flowering Tree and Other Oral Tales from India</i> . Ed. Stuart Blackburn and Alan Dundes) 2.2 Bhasa: <i>Urubhangam</i> 2.3 Sangam Poetry 2.3.1 Akam: Kuruntokai 25. Only a thief was there Narrinai 179. If a calving Cow 2.3.2 Puram: Purananuru 235. If he found a little liquor Purananuru 69. Dear Singer (from A. K. Ramanujan. <i>Poems of Love and War</i>) 2.4 <i>Therigatha</i> : Punna or Punnika, Ambapali (Translated by Charles Hallissey)	K1 - K6	15	1-5
3	From 7th Century to 18th Century 3.1 Bulle Shah: I have been pierced by the arrow of love, what shall I do? 3.2 Lal Ded: Poem 64 & 65 (from <i>The Poems of Lal Ded: Translated from the Kashmiri within an Introduction and Notes by Ranjit Hoskote</i>) 3.3 Chokhamela: They thrash me Vithu 3.4 Soyra Bai: You say some bodies (from <i>Eating God. A Book of Bhakti Poetry</i> pp. 49) 3.5 Meera Bai: These eyes: like... (from <i>Three Bhakti Voices</i> . pp.112-113) 3.6 Devara Dasimayya: Poem 120 (from <i>Speaking of Siva</i>) 3.7 Ramprasad Sen: What a Joke (from <i>Singing to the Goddess: Poems to Kali and Uma from Bengal</i> pp. 22-23) 3.8 Babur: <i>Description of Kabul</i> (from <i>Baburnama</i> , pp. 199-207)	K1 - K6	15	1-5
4	19th Century to 1947 4.1 Toru Dutt: The Tree of Life 4.2 Chandu Menon: <i>Indulekha</i> (Trans. Anitha Bevasia) 4.3 Rabindranath Tagore: <i>Chitra</i> 4.4 Munshi Premchand: Wife into Husband (from <i>Oxford India Premchand</i>) 4.5 Pudumaippittan: Deliverance from the Curse (from <i>Ramayana Stories in Modern South India: An Anthology</i> compiled and edited by Paula Richman)	K1 - K6	20	1-5
5	Practical Application Tasks	K5&K6	8	5

BOOKS FOR REFERENCE

- Bhat, G.K. "Two Plays of Tragic Design and Tragic Intent." *Tragedy and Sanskrit Drama*, Bhandarkar Oriental Institute, 1976.
- Chakravathy, Uma. "The Rise of Buddhism as Experienced by Women." *Manushi*, Vol. 8, November-December 1981.
- Devy G N. *After Amnesia*. Orient Longman, 1994.
- Naik, M K. *A History of Indian Literature*. Sahitya Akademi, 2005.
- Pollock, Sheldon I. *A Rasa Reader: Classical Indian Aesthetics*. Columbia University Press, 2018.
- Ramanujan A.K. Afterword. *Poems of Love and War*. Oxford University Press. 1996
- Afterword. *The Flowering Tree and Other Oral Tales from India*. Ed. Stuart Blackburn and Alan Dundes. Penguin Books, 1997.
- Saccidānandan. *Positions: Essays on Indian Literature*. Paper Missile/Niyogi Books, 2019.
- Sen, Amartya. *The Argumentative Indian: Writings on Indian history, Culture and Identity*. Penguin Books, 2005.
- Tharu, Susie J., and Ke Lalita, editors. *Women Writing in India: 600 B.C. to the Early Twentieth Century*. Feminist Press at the City University of New York, 1991.

JOURNALS

Indian Literature (Sahitya Akademi Journal)
Kavya Bharathi
The Little Magazine
The Journal of Commonwealth Literature
Literary Criterion

WEB RESOURCES

www.sawnet.com
www.ntm.org.in
www.indianruminations.com
ccrtindia.gov.in/literaryarts.php
<https://www.iicdelhi.nic.in/>

ONLINE COURSES

Indian Writing in English: https://onlinecourses.swayam2.ac.in/cec21_lg13/preview

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 150 words)
B	K2	10	1x10=10 (1 out of 2 questions, 250 words)
C	K3	10	1x10=10 (1 out of 2 questions, 250 words)
D	K4	10	1x10=10 (1 out of 2 questions, 250 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 250 words, Passage Analysis from prescribed texts) Two sub-questions carrying 5 marks each

Other Components: Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 150 words)
B	K2	20	2x10=20 (2 out of 3 questions, 250 words)
C	K3	20	1x20=20 (1 out of 2 questions, 350 words)
D	K4	20	1x20=20 (1 out of 2 questions, 350 words)
E	K5, K6	20	1x20=20 (1 out of 2 questions, 350 words, Passage Analysis from prescribed texts) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/IL55												
VI	Course Title: Indian Literatures I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	1	1	2	1	1	3	3	1	1	2	1
CO 2	2	1	2	1	2	1	1	3	3	1	1	1	1
CO 3	2	3	2	1	3	1	2	3	2	1	2	3	2
CO 4	2	3	1	1	3	1	1	3	1	2	1	2	2
CO 5	3	3	3	1	3	1	2	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-24)

ENGLISH FOR ADVERTISING

CODE: 23CE/MC/EA55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce students to the fundamentals of advertising
- To enable students to read, analyse and assess subliminal advertisements
- To acquaint students with the diverse functions of an advertising agency
- To develop in students a deeper understanding of marketing strategies
- To equip students with the tools to create ad copies on various platforms

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	define different kinds of advertisements and recall the ethical issues in advertising	K1
CO2	demonstrate an understanding of the role of the advertising agency and its varied functions	K2
CO3	apply concepts and identify different forms of styles in print advertisement	K3
CO4	distinguish between diverse advertising platforms and discover ingenious methods to advertise a product / service in the market	K4
CO5	design and create advertisements and ad scripts in the print and broadcast media	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Advertising 1.1. The Need For Advertisements 1.2 Kinds of Advertisements 1.3 Social and Ethical Aspects of Advertising 1.4 Ethical Issues in Advertising	K1-K6	15	1-5
2	Preparing to create Advertisements 2.1 Reading Advertisements as a Sign of Social Values and Beliefs, Reading for Hidden Messages and Implications 2.2 The Advertising Agency 2.2.1 The Role of the Advertising Agency 2.2.2 Various Departments and their Functions 2.3 The Promotional Mix 2.4 Advertiser's Pyramid 2.5 Copywriter's Pyramid	K1-K6	14	1-5
3	Creating Print Advertisements 3.1 Parts of a Print Ad 3.1.1 Headlines and its Kinds: Straight-Sell, Announcement, Word Play, Before-After, Question 3.1.2 Body Copy - Styles and Sections 3.1.3 Logo 3.1.4 Certification 3.1.5 Contact Information 3.2 Text-Visual Relationship 3.3 Taglines and Captions	K1-K6	14	1-5
4	Creating Radio Advertisements 4.1 Jingles, Spots and Commercials 4.2 Writing Scripts 4.3 Using Sound Effects 4.4 Language in Radio Jingles	K1-K6	15	1-5
5	Creating Television and Web Advertisements 5.1 Creating Television Storyboard 5.1.1 Storyboard Format 5.1.2 Showing and Telling 5.2 Creating Web Advertisements 5.2.1 Flash Advertisement 5.2.2 Pop-ups	K1-K6	20	1-5

BOOKS FOR REFERENCE

Chapman, Nigel. *Digital Multimedia*. John Wiley and Sons, 2000.
Mass Media and Mass Communication. Chadwick Healy, Cambridge, 1991.
Mass Media in India 2000. Ministry of Information and Broadcasting, New Delhi, 2000.
Mencher, Melvin. *Basic Media Writing*. Brown and Benchmark, 1996.

WEB RESOURCES

<https://bunnystudio.com/blog/radio-ad-script-examples-go-big-or-go-home/>

ONLINE COURSES

English for Media Literacy: <https://www.coursera.org/learn/media>
The Complete Digital Marketing Guide: <https://www.udemy.com/course/digital-marketing-guide/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 150 words)
B	K2	10	1x10=10 (1 out of 2 questions, 250 words)
C	K3	10	1x10=10 (1 out of 2 questions, 250 words)
D	K4	10	1x10=10 (1 out of 2 questions – Radio Script)
E	K5, K6	10	1x10=10 (1 out of 2 questions – Print Ads) Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 150 words)
B	K2	20	2x10=20 (2 out of 3 questions, 250 words)
C	K3	20	1x20=20 (1 out of 2 questions, 350 words)
D	K4	20	1x20=20 (1 out of 2 questions - Radio Script)
E	K5, K6	20	1x20=20 (1 out of 2 questions- Storyboard) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/EA55												
V	Course Title: English for Advertising												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	1	3	2	2	3	3	2	1	2	1
CO 2	2	2	2	1	3	2	1	3	1	1	2	2	1
CO 3	2	2	2	1	3	2	1	2	3	1	2	2	2
CO 4	2	2	3	1	3	3	2	3	3	3	3	2	1
CO 5	2	2	3	1	3	3	2	3	3	3	3	2	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by the Departments of English (Self-financed)
and Psychology to B.A. English and Communication Skills and
B.Sc. Psychology Degree Programmes**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LITERATURE AND PSYCHOLOGY

CODE: 23ID/IC/LP55

CREDITS: 5

LTP: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce students to the interdisciplinary aspects between Literature and Psychology
- To help students understand the fundamentals of human behaviour
- To encourage students to employ psychological concepts in their understanding of literary texts
- To critically appreciate literary texts using theories from different schools of psychology
- To equip students to assess real and literary characters through a psychological lens.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define key terms and concepts related to the study of literature and psychology.	K1
CO2	demonstrate the ability to interpret literary texts from literary and psychological perspectives	K2
CO3	apply concepts in psychology to understand real and literary characters	K3
CO4	examine the interdisciplinarity of various literary work	K4
CO5	evaluate and develop critical interpretation of literary texts using theories from different schools of psychology	K5 & K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Schwartz and Willbern: "Literature and Psychology" from <i>Interrelations of Literature</i> 1.2 Overview of personality and personality theories 1.3 Introduction to major theorists 1.3.1 Melanie Klein 1.3.2 Karen Horney 1.3.3 Jacques Lacan 1.3.4 Julia Kristeva	K1 - K6	16	1 - 55
2	Social Psychology 2.1 Social cognition, Social influence 2.2 Grief 2.3 Mari Selvaraj: <i>Pariyaerum Perumal</i> 2.4 Dylan Thomas: Do Not Go Gentle into That Good Night	K1 - K6	12	1 - 5
3	Psychosis 3.1 Hallucinations and Delusions, Schizophrenia 3.2 Causes and Treatment of Psychosis 3.3 Edgar Allan Poe: The Tell-Tale Heart	K1 - K6	10	1 - 5
4	Trauma and Attachment 4.1 Attachment theory 4.1.1 Adult attachment 4.2 Trauma theory 4.2.1 Causes and impacts of trauma 4.2.2 Resilience and trauma 4.3 Carol Ann Duffy: Warming her Pearls 4.4 Saadat Hasan Manto: Thanda Gosht	K1 - K6	20	1 - 5
5	Happiness 5.1 Personality and Happiness 5.2 Money and Happiness - Paradox of Affluence 5.3 Culture and Happiness 5.4 Amy Tan: <i>The Joy Luck Club</i>	K1 - K6	20	1 - 5

BOOKS FOR REFERENCE

- Baron, Robert and Girishwar Mishra. *Psychology: Indian Subcontinent Edition*. Fifth Edition, Pearson, 2016.
- Baumgardner, Steve and Marie Crothers. *Positive Psychology*. Pearson, 2015. Comer, Ronald J. *Abnormal Psychology*. Eleventh Edition, Worth Publishers, 2021.
- Gottschall, Jonathan and David Sloan Wilson, editors. *The Literary Animal: Evolution and the Nature of Narrative*. Northwestern University Press, 2005.
- Haidt, Jonathan. *The Happiness Hypothesis*. Basic Books, 2006.
- Haycock, Dean. *Characters on the Couch: Exploring Psychology through Literature and Film*. Greenwood, 2016.
- Holland, Norman Norwood. *Holland's Guide to Psychoanalytic Psychology and Literature-and- Psychology*. Oxford University Press, 1990.
- Knapp, John V. "New Psychologies and Modern Assessments: Rethinking Classics In Literature, Including Film and Music." *Style*, vol. 44, no. 1–2, 2010, pp. 1–59. *JSTOR*, <http://www.jstor.org/stable/10.5325/style.44.1-2.1>.
- Van der Kolk, Bessel A. *The Body Keeps the Score: Brain, Mind, and Body in the Healing of Trauma*. Viking, 2014.
- Lindauer, Martin S. *Psyche and the Literary Muses: The Contribution of Literary Content to Scientific Psychology*. John Benjamins Publishing, 2009.

Santos, Rosemary Conceição et al. "Psychology of Literature and Literature in Psychology." *Friends in Psychology*, vol. 26, no. 2, 2018, pp. 781-794.
 Winterowd, W. R. and Preston, C. *Themes and Variations: A College Reader*. Harcourt, 1985.

WEB RESOURCES

Hoffman, Frederick J. "Psychology and Literature." *The Kenyon Review*, vol. 19, no. 4, 1957, pp. 605–19. JSTOR, <http://www.jstor.org/stable/4333802>. Accessed 7 Sept. 2023.
 Jean-Michel Rabaté. "Editor's Introduction: Trauma & Psychology." *Journal of Modern Literature*, vol. 39, no. 4, 2016, pp. v–vii. JSTOR, <https://doi.org/10.2979/jmodelite.39.4.01>. Accessed 7 Sept. 2023.
 Brown, Pearl L., and Michele Hoffnung. "Images of Women in Psychology and Literature: An Interdisciplinary Course." *Feminist Teacher*, vol. 6, no. 1, 1991, pp. 14–20. JSTOR, <http://www.jstor.org/stable/40545594>. Accessed 7 Sept. 2023.

ONLINE COURSES

NPTEL course on Social Psychology: <https://nptel.ac.in/courses/109104048>
 NPTEL course on Positive Psychology: <https://nptel.ac.in/courses/109102157>
 NPTEL course on Trauma and Literature: <https://nptel.ac.in/courses/109106186>

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 50** **Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2 x 5 = 10 (2 out of 4 questions, 150 words)
B	K2	10	1 x 10 = 10 (1 out of 2 questions, 250 words)
C	K3	10	1 x 10 = 10 (1 out of 2 questions, 250 words)
D	K4	10	1 x 10 = 10 (1 out of 2 questions, 250 words)
E	K5 & K6	10	1 x 10 = 10 (1 out of 2 passage analysis from texts prescribed on syllabus, 250 words) Two sub-questions carrying 5 marks each

Other Components: **Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work – Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Evaluation:**Total Marks: 100**

Term paper (open choice of text - minimum 1500 words)

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	Documentation
K2	15	Formulating and explaining topic statement
K3	15	Explaining the conceptual framework
K4	25	Textual analysis
K5	20	Critical responses-relevance and coherence
K6	15	Stating the conclusions

No End Semester Examination

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/LP55												
	Course Title: Literature and Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO 1	3	2	1	2	1	1	2	2	3	2	1	2	2
CO 2	3	3	3	2	2	1	2	3	3	3	2	3	3
CO 3	3	3	3	2	2	1	2	3	3	3	2	3	3
CO 4	3	3	1	2	2	1	1	1	3	2	2	3	3
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF- FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023–2024)

INDIAN LITERATURES II

CODE: 23CE/MC/IL65

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce students to Indian Literatures written in various languages from the Independence era to the contemporary times.
- To familiarise students with various genres of literature originating from diverse regions across India.
- To trace the continuity, interrogation and change from the Independence era to the contemporary times.
- To enable students to understand the historical, social, cultural and political milieu of India through its literature.
- To critically examine the multifaceted discussions within Indian Literatures.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	show adequate knowledge of Indian Literatures written in various languages from Independence to the contemporary times.	K1
CO2	demonstrate an understanding of the different genres of Indian Literatures.	K2
CO3	relate Indian Literatures to important historical, social, cultural and political developments that influenced the same.	K3
CO4	analyse and engage critically with polyphonic discourses in Indian Literatures.	K4
CO5	formulate critical responses and evaluate literary texts with respect to the historical, social, cultural and political background.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Indian Thought and Aesthetics 1.1 Sharankumar Limbale: Dalit literature and Aesthetics (from <i>Dalit Aesthetics</i> pp 103-121) 1.2 Ayyappa Paniker: Poetry and Society: The Indian Situation (from <i>Indian Literature: Sahitya Akademi's Bi-Monthly Journal</i> pp. 47-50) 1.3 Ranjit Hoskote: Reasons for Belonging	K1-K6	12	1-5
2	1947 to 1980 2.1 R.K. Narayan: Fifteen Years 2.2 Nissim Ezekiel: Background, Casually 2.3 Namdeo Dhasal: Man, You Should Explode (from <i>Golpitha</i>) 2.4 Kamala Das: The Old Playhouse 2.5 Jayaprabha: Burn this Sari (from <i>The Oxford Anthology of Modern Indian Poetry</i> . Ed. Vinay Dharwadkar and A.K. Ramanujan. pp. 169-170) 2.6 Sujatha Bhatt: The Stare	K1-K6	14	1-5
3	1980 to 2000 3.1 Kaifi Azmi: The Last Night (from <i>Selected Poems</i> . Kaifi Azmi. Trans. Pavan K Varma) 3.2 Indira Goswami: <i>Under the Shadow of Kamakhya</i> 3.3 Amrita Pritam: The Annunciation (from <i>Selected Poems of Amrita Pritam</i>) 3.4 Na. Muthuswamy: <i>Naarkalikkarar</i> (from <i>Four Tamil Plays</i> . Ed. K. Latha et al) 3.5 Urvashi Butalia: Honour (from <i>The Other Side of Silence</i>)	K1-K6	20	1-5
4	2000 onwards 4.1 Aravind Adiga: <i>The White Tiger</i> 4.2 Thangjam Ibopishak: The Land of the Half Humans (from <i>Anthology of Contemporary Poetry from the Northeast</i> pp. 93-94) 4.3 Monalisa Changkija: Of a People Unanswered (from <i>Anthology of Contemporary Poetry from the Northeast</i> pp 16) 4.4 Arun Kolatkar: Janamejaya, Jaratkaru Speaks to Her Son Aastika (from <i>Sarpa Satra</i>) 4.5 Mahesh Dattani: <i>The Big Fat City</i>	K1-K6	22	1-5
5	Practical Application Tasks	K5&K6	10	5

BOOKS FOR REFERENCE

De Souza, Eunice. *Talking Poems: Conversations with Poets*. Oxford UP, 1999.

Devy, G N. *After Amnesia*. Orient Longman, 1994.

Dharwadker, Vinay. "Afterword: Modern Indian Poetry and its contexts." *The Oxford Anthology of Modern Indian Poetry*. OUP, 2008.

--- *The Oxford Anthology of Modern Indian Poetry*. OUP, 2008.

Hoskote, Ranjit. "Introduction." *Reasons for Belonging: Fourteen Contemporary Indian Poets*. Edited by Hoskote, Penguin, 2004.

Kakkar, Sudhir and Katharina Kakkar. *The Indians: Portrait of a People*. Penguin, 2007.

- King, Bruce, "Ezekiel and His Influence," *Modern Indian Poetry in English*. Oxford UP, pp. 91-109.
- Naik, M K. *A History of Indian Literature*. Sahitya Akademi, 2005.
- Ramaswamy, Radha. "Towards a Multicultural Theatre: Mahesh Dattani and the Changing Audience for Contemporary Indian Drama in English." *Mahesh Dattani's Plays: Critical Perspectives*, Edited by Angelie Multani.
- Satchidanandan, K. "The Critical Scene: Towards an Alternative Aesthetics?" *Indian Literature: Sahitya Akademi's Bi-Monthly Journal* 35.6 (1992):7-10.

JOURNALS

Indian Literature
The Journal of Commonwealth Literature
Literary
Indian Journal of English Studies

WEB RESOURCES

www.sawnet.com
www.ntm.org.in
www.indianruminations.com
certindia.gov.in/literaryarts.php

ONLINE COURSES

NPTEL Course: [Short Fiction in Indian Literature - Course \(nptel.ac.in\)](http://nptel.ac.in)
SWAYAM Courses: [Indian Writing in English - Course \(swayam2.ac.in\)](http://swayam2.ac.in)
[Introduction to Indian Literature in English: Colonialism to Postcolonialism Course \(swayam2.ac.in\)](http://swayam2.ac.in)

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 150 words)
B	K2	10	1x10=10 (1 out of 2 questions, 250 words)
C	K3	10	1x10=10 (1 out of 2 questions, 250 words)
D	K4	10	1x10=10 (1 out of 2 questions, 250 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 250 words) Two sub-questions carrying 5 marks each

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work-Passage Analysis/Quiz/Panel Discussion/Group Presentation/Role-play/Dramatisation Creative Writing

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 150 words)
B	K2	20	2x10=20 (2 out of 3 questions, 250 words)
C	K3	20	1x20=20 (1 out of 2 questions, 350 words)
D	K4	20	1x20=20 (1 out of 2 questions, 350 words)
E	K5 & K6	20	1x20=20 (1 out of 2 questions, 350 words each) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/IL65												
VI	Course Title: Indian Literatures II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	1	1	2	1	1	3	3	1	1	2	1
CO 2	2	1	2	1	2	1	1	3	3	1	1	1	1
CO 3	2	3	2	1	3	1	2	3	2	1	2	3	2
CO 4	2	3	1	1	3	1	1	3	1	2	1	2	2
CO 5	3	3	3	1	3	1	2	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-24)

AMERICAN LITERATURE

CODE: 23CE/MC/AL65

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To recall and list the socio-political, religious and cultural aspects of America through literary texts.
- To classify the different styles of writing over different centuries.
- To identify the development and progression of various genres.
- To examine the various themes and methodologies present in American literature.
- To appraise, assess and evaluate texts through the literary and theoretical perspectives presented.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	find and define major literary trends and its representation in works of American literature.	K1
CO2	classify works of American literature from a range of genres.	K2
CO3	identify the literary works of eminent writers and interpret how American literature reflects complex historical and cultural experiences.	K3
CO4	examine the usage of literary conventions in American Literature.	K4
CO5	appraise and evaluate texts through the critical knowledge acquired by reading creative essays and discourses on American literature.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Prose 1.1 Ralph Waldo Emerson: Nature (Chapter 1) 1.2. Amy Tan: Mother Tongue	K1-K6	15	1-5
2	Poetry 2.1 E.E. Cummings: next to of course god america i 2.2 Leslie Marmon Silko: In Cold Storm Light 2.3 Langston Hughes: The Negro Speaks of Rivers 2.4 Carl Sandburg: Chicago 2.5 William Carlos Williams :The Red Wheelbarrow 2.6 Allen Ginsberg : America	K1-K6	15	1-5
3	Short Story 3.1 William Faulkner: A Rose for Emily	K1-K6	8	1-5
4	Drama 4.1 Arthur Miller: <i>Death of a Salesman</i>	K1-K6	19	1-5
5	Novel and Novella 5.1 Mark Twain: <i>The Adventures of Huckleberry Finn</i> 5.2 Ernest Hemingway: <i>The Old Man and the Sea</i>	K1-K6	21	1-5

BOOKS FOR REFERENCE

Andrews.L.William.et.al ed. *The Oxford Companion to African-American Literature*. Oxford University Press, 1997.
 Gould, Jean. *American Women Poets: Pioneers of Modern Poetry*. Dodd Mead, 1980.
 Hart. D. James., Leininger, Philip. *The Oxford Companion to American Literature*. Oxford University Press, 1995.
 Lawrence, Shaffer. *History of American Literature and Drama*. NewDelhi. Sarup publishers, 2000.
 Parini, Jay. *The Oxford Encyclopedia of American Literature*. Oxford University Press, 2004.
 Rosenblatt, Roger. *Black Fiction*. London. Harvard University Press, 1974

JOURNALS

American Literature: <https://read.dukeupress.edu/american-literature>

ONLINE COURSES

Coursera. Modern and Contemporary American Poetry:
<https://www.coursera.org/learn/modpo>
 MIT OpenCourseware: American Literature: <https://ocw.mit.edu/courses/211-006-american-literature-spring-2013/>
 NPTEL. American Literature and Culture:
https://onlinecourses.nptel.ac.in/noc21_hs63/preview

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 150 words)
B	K2	10	1x10=10 (1 out of 2 questions, 250 words)
C	K3	10	1x10=10 (1 out of 2 questions, 250 words)
D	K4	10	1x10=10 (1 out of 2 questions, 250 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 250 words, Passage analysis from prescribed texts) Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work
– Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 150 words)
B	K2	20	2x10=20 (2 out of 3 questions, 250 words)
C	K3	20	1x20=20 (1 out of 2 questions, 350 words)
D	K4	20	1x20=20 (1 out of 2 questions, 350 words)
E	K5, K6	20	1x20=20 (1 out of 2 questions, 350 words each) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/AL65												
	Course Title: American Literature												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	1	1	3	1	3	2	3	3	1
CO 2	3	3	3	2	1	1	1	1	3	1	3	2	2
CO 3	3	3	2	1	2	1	3	2	2	2	3	3	3
CO 4	2	3	3	2	1	2	2	2	3	2	3	3	3
CO 5	3	3	3	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023–2024)

TECHNICAL WRITING

CODE: 23CE/MC/TW65

CREDITS: 5

LTP: 5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To introduce students to various styles and methods in technical writing
- To train students in skills required for a technical communicator
- To acquaint students with techniques for accuracy, brevity and objectivity in technical writing
- To train students to produce appropriate technical content
- To train students in using basic online packages and applications as tools of technical writing

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	identify different styles and methods in technical writing.	K1
CO2	demonstrate effective use of visuals.	K2
CO3	apply techniques for accuracy, brevity and objectivity in technical writing.	K3
CO4	categorise skills required for a technical communicator.	K4
CO5	evaluate online packages and applications effectively and compose technical content.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 What is Technical Writing? 1.2 Difference Between Technical and Academic Writing 1.3 The Scope of Technical Writing 1.4 The Role and Essential Skills of a Technical Communicator	K1-K6	13	1-5
2	Guidelines and Grammar in Technical Writing 2.1 Basic Patterns and Elements of the Sentence 2.2 Common Grammar, Usage, Punctuation Problems 2.3 Writing with Clarity and Precision 2.4 The Fog Factor	K1-K6	15	1-5
3	The Writing Process 3.1 Pre-writing 3.2 Re-writing 3.3 Writing and Editing (Using Track Changes)	K1-K6	15	1-5
4	Application of Technical Writing - I 4.1 Writing Proposals 4.2 Book Review	K1-K6	15	1-5
5	Application of Technical Writing - II 5.1 User Manual 5.2 Writing for the Web 5.3 Promotional Literature (Flyer/ Pamphlet/ Brochure)	K5, K6	20	5

BOOKS FOR REFERENCE

Alred, Gerald J, Charles T. Brusaw and Walter E. Oliu. *Handbook of Technical Writing*. 10th Ed. Macmillan Learning, 2019.

Blicq, Ronald, S and Lisa Moretto. *Technically Write!* Prentice Hall, 2004.

Handley, Ann. *Everybody Writes: Your Go-to Guide to Creating Ridiculously Good Content*. Wiley, 2014.

Marnell, Geoffrey. *Essays on Technical Writing*. Burdock Books, 2016.

Pearsall, Thomas E. *The Elements of Technical Writing*. Longman 2010.

Reddy, Devaki and Shreesh Chaudhary. *Technical English*. Macmillan, 2009.

Rizvi, Ashraf M. *Effective Technical Communication*. Tata McGraw-Hill, 2006.

JOURNALS

Technical Communication
 Journal of Business and Technical Communication

WEB RESOURCES

Society for Technical Communication: www.stc.org

ONLINE COURSES

Technical Writing and Editing: <https://www.udemy.com/course/technical-writing-and-editing/>

<https://www.coursera.org/courses?query=technical>

Technical Writing Essentials: <https://alison.com/course/technical-writing-essentials>

PATTERN OF ASSESSMENT:

Continuous Assessment:

Total Marks: 50

Assignments (Proposals/ Book Review)

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No CA Test

Other Components:

Total Marks: 50

Assignment- User Manuals/ Web page

Cognitive Level	Marks
K1	10
K2	10
K3	10
K4	10
K5 & K6	10

End-Semester Evaluation:

Total Marks: 100

Project: One Promotional Material – flyer/pamphlet/brochure – with an analysis in 800-1000 words, online submission

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	Identifying the major elements of the promotional material
K2	10	Demonstrating the mechanics of writing (sentence form, grammar, punctuation, spelling)
K3	20	Use of facts and quantity of information
K4	20	Analysing the elements
K5	20	Critical responses- Relevance of the elements
K6	20	Designing the promotional material

No End Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/MC/TW65												
	Course Title: Technical Writing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	2	1	1	3	2	1	2	1
CO 2	2	3	3	1	3	3	3	1	2	3	1	2	1
CO 3	3	2	1	3	2	3	1	1	2	3	1	2	2
CO 4	3	3	3	3	3	3	2	3	2	3	1	3	2
CO 5	3	3	3	3	3	3	3	3	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023 - 2024)

WORLD CLASSICS IN TRANSLATION

CODE: 23CE/ME/WC45

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand and appreciate the qualities that make a work of literature a classic
- To describe the classical works of literatures from across different parts of the world
- To relate the classical texts to their varied national and global identities and cultures
- To compare and contrast different genres of writing stemming from different cultures and nationalities
- To critically assess world classics from social, cultural, historical and literary perspectives

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	list the different qualities that make a work of literature a Classic	K1, K2
CO2	discuss Classics from across the globe with reference to the historical and cultural contexts	K3
CO3	interpret different literary texts by applying the theories and ideas of classical theorists	K4
CO4	analyse Classics from around the world with special attention to the genre, techniques and context	K5
CO5	evaluate and formulate critical responses to classical texts stemming from different regions and cultures	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to World Classics 1.1 Italo Calvino: Why read Classics? 1.2 A.K. Ramanujan: Some Thoughts on ‘Non-Western’ Classics: With Indian Examples	K1 - K6	10	1-5
2	Epic 2.1 Homer: <i>The Iliad</i> (Book I) 2.2 Ilango Atikal: <i>Cilappatikaram</i> , Trans. R. Parthasarathy (Book 1 – Cantos 1–3; Book 2 – Cantos 18–22)	K1 - K6	20	1-5
3	Poetry 3.1 Rumi 3.1.1. Worm’s Waking 3.1.2. In Baghdad Dreaming of Cairo, In Cairo dreaming of Baghdad (from <i>The Essential Rumi</i> (1995) translated by Coleman Barks. San Francisco: Harper Collins) 3.2 Dante: <i>Inferno</i> (Canto 3)	K1 - K6	20	1-5
4	Drama 4.1 Zeami Motokiyo: <i>Hagoromo</i>	K1 - K6	5	1-5
5	Short Story and Fiction 5.1 Boccaccio: <i>The Decameron</i> (Book I: 3rd day: IX story) 5.2 Somadeva: Visamasila, <i>The Kathasaritsagara</i> Translated by Arshia Sattar	K1 - K6	10	1-5

BOOKS FOR REFERENCE

- Shulman, David. *The Wisdom of Poets: Studies in Tamil, Telugu and Sanskrit*. OUP, 2001.
- Fadiman, James. *Essential Sufism*. HarperCollins, 2000.
- Choo, Lim Beng. “They Came to Party: An Examination of the Social Status of the Medieval Noh Theatre” *Japan Forum*, 16 (1) 2004, 111-113.
- Dubois, Page. *History, Rhetorical Description and the Epic: From Homer to Spenser*. Brewer, Cambridge.
- Smith, John. *Exploring World Classics: A Comparative Study*. Oxford University Press, 2015.
- Puchner, Martin. *The Norton Anthology of World Literature*. Shorter Third edition. New York, W.W. Norton & Company, 2013.
- Nogami, Toyotiro. *Japanese Noh Plays*. Taylor & Francis Group, 2005.

WEB SOURCES

- Farhadi, A. G. Rawan. “The Human Beloved and the Divine Beloved in the Poetry of Mawlānā Rūmī.” *Mawlana Rumi Review*, vol. 1, 2010, pp. 100–07. *JSTOR*, <http://www.jstor.org/stable/26810287>. Accessed 9 Sept. 2023.
- Kullmann, Wolfgang. “Gods and Men in the Iliad and the Odyssey.” *Harvard Studies in Classical Philology*, vol. 89, 1985, pp. 1–23. *JSTOR*, <https://doi.org/10.2307/311265>. Accessed 9 Sept. 2023.
- TEDxYouth@ACS. “Why Read the Classics?”, *Youtube*. 22 Sep 2017, <https://youtu.be/Ss36LZ5xoPA?si=NBKXCVZgKCra0Opi>

ONLINE COURSES

- NPTel course on Introduction to World Literature: <https://nptel.ac.in/courses/109/106/109106147/>
- edX.org - Harvard University: Modern Masterpieces of World Literature: <https://www.edx.org/course/modern-masterpieces-of-world-literature>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2 x 5 = 10 (2 out of 3 questions, 100 words)
B	K2	10	1 x 10 = 10 (1 out of 2 questions, 200 words)
C	K3	10	1 x 10 = 10 (1 out of 2 questions, 200 words)
D	K4	10	1 x 10 = 10 (1 out of 2 questions, 200 words)
E	K5 & K6	10	1 x 10 = 10 (1 out of 2 passage analysis from texts prescribed on syllabus, 200 words) Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work
– Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4 x 5 = 10 (4 out of 5 questions, 100 words)
B	K2	20	2 x 10 = 20 (2 out of 3 questions, 200 words)
C	K3	20	1 x 20 = 20 (1 out of 2 questions, 300 words)
D	K4	20	1 x 20 = 20 (1 out of 2 questions, 300 words)
E	K5 & K6	20	1 x 20 = 20 (1 out of 2 passage analysis from texts prescribed on syllabus, 300 words) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/ME/WC45												
	Course Title: World Classics in Translation												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	2	1	1	2	2	3	2	1	2	2
CO 2	3	3	3	2	2	1	2	3	3	3	2	3	3
CO 3	3	3	3	2	2	1	2	3	3	3	2	3	3
CO 4	3	3	1	2	2	1	1	1	3	2	2	3	3
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

CONTENT AND COPY EDITING

CODE: 23CE/ME/CC45

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose the students to the basic principles of editing
- To enable students to understand ethics in editing
- To familiarise students with the skills required for copy-editing
- To train students to use different editing software
- To train students to edit for accuracy and appropriacy of content, grammar and vocabulary

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	define the role of an editor	K1
CO2	understand professional ethics in editing	K2
CO3	apply editing skills to produce error-free documents	K3
CO4	examine the content and organisation of information for any issues, and rectify them	K4
CO5	assess and edit material for coherence, syntax, structure, style, readability, and marketability	K5-K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	The Editorial Triangle 1.1 Role and Responsibility of the editor 1.2 The Editing Process – workflow 1.3 The Writer-Editor-Reader Relationship	K1-K6	5	1-5
2	Content Editing 2.1 Determining readership 2.2 Checking for accuracy of information 2.3 Coherence, Syntax, Structure	K1-K6	20	1-5
3	Copy Editing 3.1 The role of the copyeditor 3.2 Standardisation – Style Sheet and Style Manual 3.3 Mechanics of editing 3.3.1 Copy-editing marks 3.3.2 Punctuation 3.3.3 Grammar – Cohesion, Subject-Verb Agreement, Dangling Participles 3.4 Citation styles	K1-K6	20	1-5
4	Editing Tools 4.1 Editing on MS Word 4.2 Editing PDF	K1-K6	10	1-5
5	Professional Ethics 5.1 Over-editing & under-editing 5.2 Acknowledging Sources 5.3 Cultural sensitivity and political correctness	K1-K6	10	1-5

BOOKS FOR REFERENCE

Bly, W. Robert. *The Copy-Writer's Handbook: A Step-by-Step Guide to Writing Copy That Sells*. Henry Holt and Company, 2005.

Butcher, Judith, et al. *Butcher's Copy-editing: The Cambridge Handbook for Editors, Copy Editors and Proof Readers*. Cambridge University Press, 2006.

Gilad, Suzanne. *Copy-editing & Proofreading for Dummies*. Wiley Publishing Inc, 2007.

Mill, David. *Content is King: Writing and Editing Online*. Elsevier Ltd, 2005.

Grenny, Joseph, et al. *Crucial Conversations*. 3rd edition, McGraw Hill, 2022.

Sharpe, T. Leslie, Irene Gunther. *Fact and Fiction: A Concise Guide to Book Editing*. Cambridge University Press, 1997.

Stoval, Glenn James, Edward Mullins. *The Complete Editor*. Routledge, 2016.

WEB SOURCES

https://press.uchicago.edu/dam/ucp/books/pdf/course_intro/978-0226-29997-6_course_intro.pdf

<https://ayorek.org/files/References/Copyeditor's%20Handbook%20-%20Amy%20Ehnston.pdf>

ONLINE COURSES

Complete Proofreading Course Editing and Proofreading:

<https://www.udemy.com/course/the-complete-proofreading-course-editing-and-proofreading/>

Coursera: Good with Words: <https://www.coursera.org/specializations/good-with-words>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5= 10 marks (1 out of 2 questions, 100 words)
B	K2	10	10 marks (CA I - Checking accuracy of information, CA II - Punctuation exercises)
C	K3, K4	10	10 (Newspaper Article) Two sub-questions carrying 5 marks each
D	K5, K6	20	1x20=20 (1 question – article/short story) Two sub-questions carrying 10 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work
– Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5= 20 marks (4 out of 5 questions, 100 words)
B	K2	20	20 marks (Checking accuracy of information/ Punctuation exercises)
C	K3, K4	20	20 (Newspaper Article) Two sub-questions carrying 10 marks each
D	K5, K6	40	2x20=40 (2 questions – article/short story) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/ME/CC45												
	Course Title: Content and Copy Editing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	3	3	2	2	1	1	1	2	2	1	1
CO 2	2	2	3	3	2	2	1	2	1	2	2	1	3
CO 3	1	2	3	3	2	2	1	1	1	1	1	1	3
CO 4	2	1	3	3	2	2	1	1	2	1	1	3	1
CO 5	3	2	3	3	2	2	1	2	2	2	1	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023 - 2024)

CHILDREN'S LITERATURE

CODE: 23CE/ME/CL45

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To define children's literature and identify its diverse varieties
- To explain the theoretical concepts in the field of children's literature
- To familiarise students with the characteristics of the sub-genres of children's literature
- To examine the politics of representation and analyse the historical, cultural, social and political factors packed within chosen literary texts
- To train students to critically deconstruct the use of word choice, dialogue, narration, story structure, and other elements of storytelling in contemporary children's books

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	define and identify key features of books classified as children's literature and understand how writers weave well-crafted stories	K1, K2
CO2	interpret the role of the adult in books meant for children	K3
CO3	build an understanding of various cultures and ethnicities	K4
CO4	analyse and appreciate the use of art and craft in published picture books and explain its effectiveness	K5
CO5	evaluate and discuss texts belonging to various sub-genres such as the picture book, nonsense verse, fiction and formulate critical responses to them	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Children's Fiction 1.1 Defining Children's Literature – Paradoxes, The Implied Reader, Double Address 1.2 Childhood – A Personal and Social Construct 1.3 Classic Fairy Tale: <i>Hansel and Gretel</i> 1.4 Sub-genre: picture books, comic strips/books, folk tales, fairy tales, fantasy, horror tales	K1-K6	15	1-5
2	The Picture Book 2.1 Floella Benjamin: <i>Coming to England</i> 2.2 Maurice Sendak: <i>Where the Wild Things Are</i> 2.3 Sandhya Rao: <i>My Mother's Sari</i> 2.4 Mojdeh Hassani & Samira Iravani: <i>Mama Shamsi at the Bazaar</i> 2.5 The Blue Jackal from <i>The Panchatantra</i>	K1-K6	12	1-5
3	Poetry 3.1 Roald Dahl: Cinderella from <i>Revolting Rhymes</i> 3.2 Dr. Seuss: <i>The Lorax</i>	K1-K6	10	1-5
4	Fiction 4.1 Ruskin Bond: Ghost Trouble 4.2 C.S. Lewis: <i>The Lion, the Witch and the Wardrobe</i> 4.3 Scott O'Dell: <i>Island of the Blue Dolphins</i>	K1- K6	20	1-5
5	Practical Application Tasks	K5&K6	8	4&5

BOOKS FOR REFERENCE

- Grenby, M. O., and Kimberley Reynolds. *Children's Literature Studies: A Research Handbook*. Palgrave, 2011.
- Reynolds, Kimberley. *Children's Literature in the 1890s and the 1990s. Writers and Their Work Series*, Northcote House in association with the British Council, 1994.
- Styles, Morag, and Eve Bearne, editors. *Art, Narrative and Childhood*. Trentham, 2003.
- Superle, Michelle. *Contemporary English-Language Indian Children's Literature: Representations of Nation, Culture, and the New Indian Girl*. Routledge, 2011.

WEB SOURCES

- Anstey, Michele. "'It's Not All Black and White': Postmodern Picturebooks and New Literacies." *Journal of Adolescent & Adult Literacy*, vol. 45, no. 6, 2002, pp. 444.
- Berry, Nita. "Social Change through Children's Books – An Indian Perspective." *Bookbird: A Journal of Children's Literature* Vol 54, no.1, 2016, pp 48-54.
- Peter, Hunt, editor. *Understanding Children's Literature: Key Essays from the International Companion Encyclopaedia of Children's Literature*. Taylor & Francis e-Library, 1999.

ONLINE COURSES

- Writing for Children: <https://www.udemy.com/course/writing-for-children/>
- Children's Literature: <https://www.udemy.com/course/childrens-literature/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 3 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5 & K6	10	1x10=10 (Passage Analysis, 200 words) Two sub-questions carrying 5 marks each

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work –
Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 100 words)
B	K2	20	2x10=20 (2 out of 3 questions, 200 words)
C	K3	20	1x20=20 (1 out of 2 questions, 300 words)
D	K4	20	1x20=20 (1 out of 2 questions, 300 words)
E	K5 & K6	20	1x20=20 (1 out of 2 questions, 300 words) Passage analysis from texts prescribed on the syllabus Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/ME/CL45												
	Course Title: Children's Literature												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	1	3	3	3	3	3	3
CO 2	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 3	3	3	1	3	3	2	1	3	3	3	2	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF ENGLISH (SELF- FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023 - 2024)

READING FILMS

CODE: 23CE/ME/RF45

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the evolution of films and to film movements that shaped the art of filmmaking
- To acquaint students with the nuances of filmmaking and to familiarise them with genres and different stages of film production
- To enable students to identify and analyse meanings conveyed through the various components used in a film
- To critically appreciate films with reference to culture, history, technology, aesthetics etc.
- To equip students to assess and express different opinions on films through the art of film review writing

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	trace the evolution of films and major film movements	K1
CO2	observe the different aesthetic elements and technical aspects used in films to constitute meaning	K2
CO3	examine films from across the world as a product of historical and cultural contexts	K3
CO4	analyse varied films using the different approaches discussed	K4
CO5	critically assess films from across the world and construct a film review	K5 & K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Evolution of Films: still to moving pictures, black and white to colour, silent movies to talkies 1.2 Overview of Film Movements: German Expressionism, Soviet Montage, Surrealism, Silent Comedy, Italian Neo-Realism, French New Wave, Japanese Cinema and Parallel Cinema	K1 - K6	10	1-5
2	Film Aesthetics 2.1 Plot and Screenplay Structures 2.2 Genres, Sub-Genres and Alternate Genres 2.3 Components of Film Language: Aspect ratio, Mise-en-scène, Cinematography, Editing, Sound, Special Effects, Colour	K1 - K6	9	1-5
3	Writing about Films 3.1 Critical Analysis of Film 3.1.1 Structural Approach 3.1.2 Ideological Approach 3.1.3 Auteur Approach 3.1.4 Region specific styles 3.1.5 Historical Approach 3.2 Film Review - functions and structure	K1 - K6	10	1-5
4	World Cinema 4.1 Francis Ford Coppola: <i>The Godfather</i> (1972) 4.2 Hayao Miyazaki: <i>Spirited Away</i> (2001) 4.3 Bong Joon-Ho: <i>Parasite</i> (2019)	K1 - K6	18	1-5
5	Indian Cinema 5.1 Satyajit Ray: <i>Pather Panchali</i> (1955) 5.2 Sanjay Leela Bansali: <i>Bajirao Mastani</i> (2015) 5.3 Pushkar and Gayatri: <i>Vikram Vedha</i> (2017)	K1 - K6	18	1-5

BOOKS FOR REFERENCE

- Abrahams, Nathan, et al. *Studying Film*. Arnold: Hodder Headline Group, 2001.
- Aitken, Ian. *European Film Theory and Cinema: A Critical Introduction*. Edinburgh University Press, 2001.
- Andrew, Dudley. *Concepts in Film Theory*. Oxford University Press, 1984.
- Bazin, Andre. *What is Cinema?*. Vol. I. University of California Press, 2005.
- Benyahia, Sarah Casey, et al. *A2: The Essential Introduction*. Taylor & Francis, 2011.
- Bhaskar, Ira. 09 Apr 2013, "The Indian New Wave". *Routledge Handbook of Indian Cinemas*. edited by K. Moti Gokulsing and Wimal Dissanayake. Routledge, 2019. pp. 19-34.
- Bordwell, David and Kristen Thompson. *Film Art: An Introduction*. New York: McGraw Hill, 2020. (Twelfth Edition)
- Buckland, Warren, editor. *Film Theory and Contemporary Hollywood Movies*. Routledge, 2009.
- Butler, Andrew. *Film Studies*. Pocket Essentials, 2005.
- Corrigan, Timothy. *A Short Guide to Writing about Film*. England: Pearson, 2015. (Ninth Edition)
- Dixon, Wheeler Winston and Foster, Gwendolyn. *A Short History of Film*. Rutgers University Press, 2018.
- Elsaesser, Thomas, and Malte Hagener. *Film Theory: An Introduction Through the Senses*. Routledge, 2010.
- Kuhn, Annette, Guy Westwell. *A Dictionary of Film Studies*. OUP, 2012.

Monaco, James. *How to Read a Film: The World of Movies, Media, and Multimedia: Language, History, Theory*. Oxford University Press, 2000.
Nichols, Bill. *Movies and Methods*. University of California Press, 1976.
—. *Engaging Cinema: An Introduction to Film Studies*. W. W. Norton and Company, 2010.
Traditions in World Cinema, edited by Linda Badley, et al., Edinburgh University Press, 2005.

MOVIES FOR REFERENCE

Unit 1.1

Lumière Brothers *The Arrival of a Train*, George Melies *A Trip to the Moon*, Edwin Porter *The Great Train Robbery*, Dadasaheb Phalke *Growth of a Pea Plant*

Unit 1.2

German Expressionism: *Cabinet of Dr Caligari* (1919), *Metropolis* (1927)
Soviet Montage: *Battleship Potemkin* (1925)
Surrealism: *Un Chien Andalou* (1929)
Silent Comedy: *Chaplin's Short Comedies*, *Modern Times* (1936)
Italian Neo-Realism: *Rome, Open City* (1945) & *Bicycle Thieves* (1948)
French New Wave: *400 Blows* (1959) & *Breathless* (1960)
Japanese Cinema: *Tokyo Story* (1953), *Rashomon* (1950), *Life of Oharu* (1952)
Parallel Cinema: *Neecha Nagar* (1946), *Pather Panchali* (1955)

E-JOURNALS

<https://journal.media-culture.org.au/>
<https://academic.oup.com/>
<https://www.jstor.org/journal/cinemaj>

WEB SOURCES

<https://premierskillsenglish.britishcouncil.org/course-stages/lesson-7-task-write-film-review>.
<https://guides.lib.unc.edu/c.php?g=711231&p=5060431>
https://srisa.org/rw_common/plugins/stacks/armadillo/media/writing_about_film_2014_1.pdf

ONLINE COURSES

NPTEL course on Introduction to Film Studies:
https://onlinecourses.nptel.ac.in/noc21_hs17/preview

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2 x 5 = 10 (2 out of 3 questions, 100 words)
B	K2	10	1 x 10 = 10 (1 out of 2 questions, 200 words)
C	K3	10	1 x 10 = 10 (1 out of 2 questions, 200 words)
D	K4	10	1 x 10 = 10 (1 out of 2 questions, 200 words)
E	K5 & K6	10	1 x 10 = 10 (1 out of 2 questions, 200 words) Two sub-questions carrying 5 marks each

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work
– Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Evaluation:**Total Marks: 100**

Term paper (open choice of text - minimum 1500 words)

Cognitive Level	Marks	Rubrics for Evaluation
K1	10	Documentation
K2	15	Formulating and explaining topic statement
K3	15	Explaining the conceptual framework
K4	25	Textual analysis
K5	20	Critical responses-relevance and coherence
K6	15	Stating the conclusions

No End Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/ME/RF45												
	Course Title: Reading Films												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	2	1	3	1	2	3	3	1	1	1	2
CO 2	2	3	3	1	3	1	1	2	2	1	3	3	1
CO 3	1	3	3	1	3	1	1	2	1	1	3	2	2
CO 4	2	3	2	1	3	1	1	2	1	1	3	2	1
CO 5	2	3	2	2	3	1	1	2	1	1	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-24)

LITERATURE AND FOOD

CODE: 23CE/ME/LF45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- Define the intrinsic connection between food and literature
- Outline terms and concepts related to food
- Identify the interdisciplinary nature of food studies in combination with the skills that can be enhanced with relation to food and writing
- Discover the various modes of writing about food
- Evaluate, assess and interpret literary and non- literary texts based on their interaction with food and forms of writing that they employ

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	define the various theories, concepts and ideas related to literature and food	K1
CO2	interpret and outline the socio – political, historical and cultural contexts of food	K2
CO3	identify the divergent cultural and cross-cultural contexts and notions of food	K3
CO4	analyse and examine the inevitable connection between food and writing and be able to put it to use	K4
CO5	appraise and evaluate texts based on interdisciplinary ideas related to literature and food	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Literature and Food 1.1 Roland Barthes: Toward a Psychosociology of Contemporary Food Consumption	K1-K6	8	1-5
2	Basics of Food Writing 2.1 What is Food Writing? Meaning and Significance of Food Writing 2.2 Food Writing Formats - The Interview, Travel Story, Recipe with a Story, Review, Personal Essay, Blogs 2.3 Analysing Gastrocriticism and using it effectively in writing about food 2.4. Food and Life Writing 2.4.1 Nigel Slater : Excerpts from Toast: <i>The Story of a Boy's Hunger</i>	K1-K6	12	1-5
3	Food, Women and Identity 3.1. Jessica Soffer: <i>Tomorrow There Will be Apricots</i> 3.2. Jeo Baby: <i>The Great Indian Kitchen</i>	K1-K6	18	1-5
4	Food, Diaspora and Ethnicity 4.1. Bill, Judy, Sarah and Kaitlin Leung: <i>The Woks of Life</i> 4.2. Jhumpa Lahiri: Mrs. Sen's from the <i>Interpreter of Maladies</i> 4.3 Shan Foods : Khaana With Parosi	K1-K6	15	1-5
5	Food and Fantasy 5.1 Laura Esquivel : <i>Like Water for Chocolate</i> 5.2. Maurice Sendak: <i>Chicken Soup with Rice</i>	K1-K6	12	1-5

BOOKS FOR REFERENCE

Gilbert, Sandra. *The Culinary Imagination: From Myth to Modernity*. WW Norton, 2014
Gilbert, Sandra. et.al. *Eating Words: The Norton Anthology of Food Writing*. New York. W.W. Norton & Company, 2015.
Jacob, Dianne. *Will Write for Food: The Complete Guide to Writing Cookbooks, Blogs, Memoir, Recipes, and More*. Da Capo Lifelong Books, 2015.
Klitzing, Anke. "My Palate Hung with Starlight: a Gastrocritical Reading of Seamus Heaney's Poetry". *East-West Cultural Passage*, 19 (2), pp. 14-39.
Shahani G. Gitanjali. ed. *Cambridge Critical Concepts: Food and Literature*. Cambridge University Press, 2018
Zinsser, W. *On Writing Well: The Classic Guide to Writing Nonfiction*. 25th anniversary edition. New York: Harper Resource Quill, 2001.

WEB SOURCES

Moody, Rick. "A Guide to Revision". 2018 <https://spoonsandbooks.com/2018/09/15/how-to-edit-rick-moodys-guide-to-revision/>

ONLINE COURSES

Introduction to Food Writing: <https://wp.writingclasses.com/courses/food-writing/>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	10	2x5=10 (2 out of 4 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)
D	K4	10	1x10=10 (1 out of 2 questions, 200 words)
E	K5, K6	10	1x10=10 (1 out of 2 questions, 200 words, Passage Analysis from prescribed texts) Two sub-questions carrying 5 marks each

Other Components:**Total Marks: 50**

Assignment/Seminar/Presentation/Take Home Test/Open Book Test/Scheduled Class Work
– Passage Analysis /Quiz/Panel Discussion/Group Presentation

Cognitive Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks	Pattern
A	K1	20	4x5=20 (4 out of 5 questions, 100 words)
B	K2	20	2x10=20 (2 out of 3 questions, 200 words)
C	K3	20	1x20=20 (1 out of 2 questions, 300 words)
D	K4	20	1x20=20 (1 out of 2 questions, 300 words)
E	K5, K6	20	1x20=20 (1 out of 2 questions, 300 words, Passage Analysis from prescribed texts) Two sub-questions carrying 10 marks each

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CE/ME/LF45												
	Course Title: Literature and Food												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	2	2	3	2	2	2	2
CO 2	3	3	3	2	2	2	3	3	3	2	3	3	3
CO 3	3	3	3	2	3	2	3	3	3	2	3	3	3
CO 4	3	3	3	2	2	2	3	3	3	2	3	3	3
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023 - 2024)

PROJECT

CODE:23CE/ME/PR45

CREDITS:5

OBJECTIVES OF THE COURSE

- To provide students with the skills to undertake independent research on an area of their interest
- To enable students to identify a research gap
- To train students to formulate a clear research question
- To inculcate in students the skillset required to carry out structured, ethical research
- To train students in writing a well-organised and well-documented short research paper.

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to

COs	Description	CL
CO1	define a research area.	K1
CO2	identify the research gap in the area.	K2
CO3	construct a research framework, cogent arguments to fill in the research gap.	K3
CO4	examine and make ethical and optimal use of resources .	K4
CO5	interpret and evaluate the ideas, and develop an argument to compose a well-organised and well-documented research paper.	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5–Evaluate K6 – Create		

Description: Analysis/argument in the form of an extended research paper on a topic or aspect of a topic following the MLA (Eighth Edition) documentation and citation style.

Length : Around 3000-4000 words/10-20 pages, organised in 2 to 3 chapters

Scope : Students could work on

- a) an author/authors
- b) a particular theme or issue in the context of a literary work
- c) use a given theoretical approach to a particular text/group of texts

The above entails extensive reading of primary and secondary texts.
(to be done in consultation with the supervisor)

- Requirement:** An abstract of 150-200 words
1. A clear thesis statement
 2. Works Cited
 3. Documentation and Bibliography using MLA (Eighth Edition) format
 4. Drafting and revising process to be followed – with a percentage of the marks to be allotted to drafts as given below

PATTERN OF ASSESSMENT:

Total marks: 100 marks

Continuous Assessment

Total Marks:50

Annotated Bibliography

20 marks

Draft 1

30 marks

Cognitive Level	Marks	Rubrics for Evaluation
K1	5+5	MLA format for citation of secondary source (annotated bibliography 5, draft 5)
K2	15	Explanation of the relevance of the secondary source (annotated bibliography)
K3	5	Explaining the conceptual framework (draft)
K4	10	Textual analysis and use of secondary sources (draft)
K5	5	Research arguments, relevance, coherence, appropriate use of academic language (draft)
K6	5	Research conclusions (draft)

End Semester Evaluation

Total Marks: 100

Dissertation

75 marks

Knowledge Level	Marks	Rubrics for Evaluation
K1	5	MLA Documentation
K2	5	Formulating and explaining research problem/question
K3	15	Explaining the conceptual framework
K4	25	Textual analysis and use of secondary sources
K5	15	Research arguments, relevance, coherence, appropriate use of academic language
K6	10	Research conclusions

Viva voce

25 marks

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SYLLABUS

(Effective from the academic year 2023-2024)

FICTION AND FILM

CODE:23CE/GE/FF22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To equip learners with the skills to appreciate narrative techniques in fiction and film
- To train students to examine technical aspects of film adaptation
- To introduce learners to the cultural aspects of film adaptation

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COS	DESCRIPTION	CL
CO1	relate the principles of adaptation to the specific films	K1
CO2	engage with the different cultural aspects of film adaptation	K2
CO3	identify techniques in fiction and film	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Narrative in Fiction and Film 1.1 Point of view 1.2 Issues of cultural aspects of adaptation 1.3 Narrative techniques in Fiction and Films	K1-K3	8	1-3
2	Novel 2.1 Text: <i>Harry Potter and the Philosopher's Stone</i> 2.2 Film: <i>Harry Potter and the Philosopher's Stone</i> (Directed by Chris Columbus)	K1-K3	9	1-3
3	One Text; Two Visions 3.1 Film: <i>Sense and Sensibility</i> (Directed by Ang Lee) 3.2 <i>Kandukondain Kandukondain</i> (Directed by Rajiv Menon)	K1-K3	9	1-3

BOOKS FOR REFERENCE

- Chatman, Seymour. *Story and Discourse: Narrative Structure in Fiction and Film*. Cornell University Press, 1978.
- Corrigan, Timothy. *Film and Literature: An Introduction and Reader*. Pearson, 1998.
- Giannetti, Louis. *Understanding Movies*. Pearson, 2008.
- Lothe, Jakobs. *Narrative in Fiction and Film*. OUP, 2000.
- Hutcheon, Linda. *A Theory of Adaptation*. Informa, 2006.
- Leitch, Thomas. *Film Adaptation and Its Discontents: From Gone with the Wind to The Passion of the Christ*. The Johns Hopkins University Press, 2007.
- . *The Oxford Handbook of Adaptation Studies*. OUP, 2017.
- Seeger, Linda. *The Art of Adaptation: Turning Fact and Fiction into Film*. Holt Paperback, 1992.
- Synder, Mary. *Analyzing Literature to Film Adaptations*. Continuum, 2011.
- Verevis, Constantine. *Film Remakes*. Edinburgh University Press, 2006.

WEB RESOURCES

<https://academic.oup.com/book/36229/chapter-abstract/315861581?redirectedFrom=fulltext>
https://d2buyft38glmwk.cloudfront.net/media/cms_page_media/11/FITC_Adaptation_1.pdf
https://www.academia.edu/30568663/THEORIES_OF_ADAPTATION_NOVEL_TO_FILM

ONLINE COURSES

Fiction and Film <https://college.berklee.edu/courses/leng-319>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)

Other Components:

Total marks: 25

Quiz/ Presentations / Analysis of narrative techniques in a passage from fiction
or a clipping from a movie/ Analysis of cultural differences in film adaptations 25 marks

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End-Semester Examination

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SYLLABUS

(Effective from the academic year 2023-2024)

ENGLISH FOR COMPETITIVE EXAMINATIONS

CODE: 23CE/GE/EE22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To train learners to identify errors in sentences and to rewrite them correctly
- To train learners in English language use
- To train learners in reading comprehension, and in writing skills

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	find errors in language samples and correct them.	K1
CO2	demonstrate advanced skills in language use.	K2
CO3	make use of tables, graphs and charts and interpret various kinds of texts, organise ideas, thoughts, opinions and information and construct paragraphs and essays	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Error Spotting and Correction 1.1 Tenses 1.2 Subject-Verb Agreement 1.3 Articles, Prepositions and Conjunctions 1.4 Sentence Structure	K1	12	1
2	Language Use 2.1 Idioms and Phrases 2.2 Phrasal Verbs 2.3 Antonyms and Synonyms 2.4 Vocabulary	K2	6	2
3	Reading and Writing Skills 3.1 Reading Comprehension (Data Interpretation) 3.2 Essay Writing	K1-K3	8	1-3

BOOKS FOR REFERENCE

Aggarwal, R S and Vikas Aggarwal. *Objective General English*. S Chand Publishers, 2016.
Francoise, Grellet. *Developing Reading Skills*. Cambridge University Press, 2010.
Otto, Jespersen. *Essentials of English Grammar*. George Allen & Unwin, 2013.
Prasad, Hari. *Objective English for Competitive Exams*. Tata McGraw Hill, 2010.
Pye, Glennis. *Vocabulary in Practice*. Cambridge University Press, 2005.
Stephen, Mathew. *Guide to Synonyms and Antonyms*. Dominant, 2012.
---. *Everyday Errors in English*. Dominant, 2012.
Swan, Michael. *Practical English Usage*. 4th Edition Oxford University Press, 2017.
Ur, Penny. *Grammar Practice Activities*. Cambridge University Press, 2009.
Wiley. *English: Exam Goalpost for Banking Exams*. Wiley India Pvt Ltd, 2016.

WEB RESOURCES

www.theidioms.com

ONLINE COURSES

English Language for Competitive Examinations <https://nptel.ac.in/courses/109106116>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (from Unit 1)
B	K2	10	5x2=10 (from Unit 2)
C	K3	10	5x2=10 (Data Interpretation)

Other Components:

Grammar/Language/Writing tasks

25 marks

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End Semester Examination.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

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SYLLABUS

(Effective from the academic year 2023-2024)

POPULAR CULTURE

CODE:23CE/GE/PC22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To enable students to arrive at a definition of what ‘popular culture’ means in the contemporary world
- To encourage students to think critically about popular culture
- To equip students to examine the contexts of most popular culture elements and the reasons behind their origin

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define key terminology related to popular culture with a comprehensive understanding of its various aspects and influences	K1-K3
CO2	classify different forms of popular culture	K1-K3
CO3	apply their understanding of popular culture studies to analyze contemporary trends	K1-K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Popular Culture 1.1 Defining popular culture 1.2 High and Low Culture	K1-K3	6	1-3
2	Popular Culture in India 2.1 Songs: Arivu: Enjoy Enjaami or any other popular song 2.2 Advertisements: Generation of Care (Vicks) or any other popular ad 2.3 Hashtag Movements: #MeToo or any current social media movement 2.4 Street Art: GuessWho (from Kochi Muziris Biennale)	K1-K3	10	1-3

UNIT	CONTENT	CL	Hrs	CO
3	Popular Culture in the Global Context 3.1 Song: Childish Gambino: This is America or any other popular song 3.2 Advertisements: Bodyform's Fear Going to School Less or any other popular ad 3.3 Stand-up: Hannah Gadsby: <i>Nannete</i> or any other popular stand-up act 3.4 Street Art: Shinya Nishikata: Tokyo 3.5 TV Show: Dan Goor, Michael Schur: Game Night (from <i>Brooklyn Nine-Nine</i>)	K1-K3	10	1-3

BOOKS FOR REFERENCE

Danesi, Marcel. *Popular Culture: Introductory Perspectives*. Fourth ed., Rowman & Littlefield, 2018.

Gokulsing, K. Moti, and Wimala Dissanayake, editors. *Popular Culture in a Globalised India*. Routledge, 2009.

Guins, Rainford, and Omayra Zaragoza Cruz, editors. *Popular Culture: A Reader*. Sage Publications, 2005.

Kasbekar, Asha. *Pop Culture India! Media, Arts, and Lifestyle*. ABC-CLIO Inc., 2006.

Miller, Toby. *The Routledge Companion To Global Popular Culture*. Routledge, 2017.

ONLINE COURSES

Fandom and Popular Culture in the Digital Age Specialization
<https://www.coursera.org/specializations/fandom-popular-culture-digital-age>

The Rise of the Superheroes and their Impact on Pop Culture
<https://www.edx.org/learn/humanities/the-smithsonian-institution-the-rise-of-superheroes-and-their-impact-on-pop-cu>

PATTERN OF ASSESSMENT:

Continuous Assessment: Total Marks: 25 Duration: 45 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)

Other Components:

Total marks: 25

Quiz/Presentations/Analysis of any form from popular culture/Analysis of contemporary trends

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End-Semester Examination.

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SYLLABUS

(Effective from the academic year 2023-2024)

THE GRAPHIC NOVEL

CODE:23CE/GE/GN22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To encourage students to view graphic novels as a composite medium, like film, by examining both visual and textual elements
- To train students to appreciate the unique textures and 'language' of narration in graphic novels
- To introduce students to the complexities of storyboarding and sequential art

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	define the characteristics and elements of graphic novels	K1
CO2	classify different genres and themes found in graphic novels and compare the narrative approaches and artistic styles in the novels prescribed	K2
CO3	apply literary and visual analysis skills to identify socio-cultural and political themes	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Graphic Novels 1.1 Interaction between textual and visual elements of graphic novels 1.2 Narrative: Storyboarding, Dialogue, Setting, Characterisation 1.3 Genres: Humour, Politics, Memoir, Manga 1.4 Representation: Gender, Race, Sexuality	K1-K3	6	1-3
2	Fiction 2.1 Frank Miller, John Romita Jr.: <i>Daredevil: The Man Without Fear</i>	K1-K3	10	1-3
3	Non-Fiction 3.1 Malik Sajad: <i>Munnu: A Boy from Kashmir</i>	K1-K3	10	1-3

BOOKS FOR REFERENCE

Adams, Jeff. *Documenting Graphic Novels and Social Realism*. Peter Lang Publishers, 2008.
McCloud, Scott. *Understanding Comics: The Invisible Art*. HarperCollins Publishers, 1993.
Tabachnik, Stephen E., editor. *The Cambridge Companion to the Graphic Novel*. Cambridge University Press, 2017.
Wolk, Douglas. *Reading Comics: How Graphic Novels Work and What They Mean*. Da Capo Press, 2007.

WEB RESOURCES

<http://graphicnovelresources.blogspot.com/>
<https://tinyurl.com/mrx6fxjw>

ONLINE COURSES

Graphic Novel Classes Online <https://www.skillshare.com/en/browse/graphic-novel-1>
Comic Book and Graphic Novel Script Writing
<https://www.udemy.com/course/writecomicslikeapro/>

PATTERN OF ASSESSMENT:

Continuous Assessment: **Total Marks: 25** **Duration: 45 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	5	1x5=5 (1 out of 2 questions, 100 words)
B	K2	10	1x10=10 (1 out of 2 questions, 200 words)
C	K3	10	1x10=10 (1 out of 2 questions, 200 words)

Other Components:

Total marks: 25

Quiz/Analysis of visual elements in excerpts from graphic novels/Analysis of socio-cultural and political themes in the texts 25 marks

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

NOVEL OF COURTSHIP AND MARRIAGE

CODE: 23CE/UI/CM23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To enable students to undertake independent learning and research
- To enable students to place the institutions of courtship and marriage within a social and historical context
- To facilitate students to study the fictional representation of courtship and marriage and related themes

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- demonstrate an understanding of courtship and marriage as sociological and cultural phenomena
- study fictional representations of courtship and marriage by placing them within specific social and historical contexts

Text: Vikram Seth: *A Suitable Boy*

Unit 1

Background

- 1.1 European / Western Conventions of Courtship and Marriage – Its History and Contemporary Views on Them
- 1.2 Indian Conventions of Courtship and Marriage

Unit 2

Socio-Economic And Religious Perspectives

- 2.1 Role of Social Class in Marriages
- 2.2 Caste-Based and Religious Considerations
- 2.3 Arranged Marriages and Marriages by Personal Choice
- 2.4 Rebellion and Conformity

Unit 3

Gender Perspectives

- 3.1 Feminist Perspectives
- 3.2 Sexual / Gender Role

Unit 4

Techniques

- 4.1 Fictional Narrative Techniques

Unit 5

Practical Analysis Tasks

BOOKS FOR REFERENCE

Beauvoir, Simone de. *The Second Sex*. Vintage Books, 1949. Brownstein, Rachel, M. *Becoming a Heroine*. The Viking Press, 1982.
Halwani, Raja. *Philosophy of Love, Sex and Marriage: An Introduction*. Routledge, 2018.
Kakar, Sudhir and Katherina Kakar. *The Indians: Portrait of a People*. Penguin India, 2009.
Lewis, C. S. *The Allegory of Love*. OUP, 1958.
Millet, Kate. *Sexual Politics*. Doubleday, 1970.
Uberoi, Patricia. Ed. *Family, Kinship and Marriage in India*. OUP, 1994.

PATTERN OF ASSESSMENT:

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

4 out of 6 600-word essays

(4 x 25=100)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF ENGLISH (SELF-FINANCED)

B.A. DEGREE: ENGLISH AND COMMUNICATION SKILLS

SYLLABUS

(Effective from the academic year 2023-2024)

POETRY OF THE ROMANTIC AGE

CODE:23CE/UI/PR23

CREDITS:3

OBJECTIVES OF THE COURSE

- To enable students to undertake independent learning and research
- To introduce students to the English Romantic Movement and its literature

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- trace the evolution of thought from the Pre-Romantics to the Romantics
- understand the key aspects of the English Romantic Movement
- read, analyse and appreciate poetry written by various Romantic poets

Unit 1

1.1 Introduction to the Romantic Movement

Unit 2

2.1 The Pre-Romantics

Unit 3

3.1 William Wordsworth

Ode on Intimations of Immortality from Early
Recollections of Childhood

3.2 Samuel Taylor Coleridge

Dejection: An Ode

Unit 4

4.1 John Keats

Ode on a Grecian Urn

4.2 Percy Bysshe Shelly

To a Skylark

Unit 5

5.1 George Byron

Don Juan: Canto I (6-64)

BOOKS FOR REFERENCE

Black, Joseph et al. *The Broadview Anthology of Romantic Poetry*. Broadview Press, 2016.

Feldman, Paula. Ed. *British Women Poets of the Romantic Era: An Anthology*. John Hopkins Press, 1997.

Hough, Graham. *The Romantic Poets*. Routledge, 2016.

Simpson, David. *Irony and Authority in Romantic Poetry*. Macmillan Press, 1979. Wordsworth, Jonathan and Jessica Wordsworth. Eds. *The Penguin Book of Romantic Poetry*. Penguin Books, 2003.

PATTERN OF ASSESSMENT:

End-Semester Examination:
Four out of six 600-word essays

Total Marks: 100

Duration: 3 hours
4 x 25 = 100 marks



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

**B.C.A. DEGREE
COMPUTER APPLICATIONS
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

**SYLLABUS
(Effective from the academic year 2023 – 2024)**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF COMPUTER SCIENCE

PROGRAMME DESCRIPTION

The Bachelor of Computer Applications offers knowledge on the underlying concepts of computer technology, use of different programming languages as a tool for solving problems in different domains and the technology trends. This degree not only helps the students to pursue career in IT industry or master's programme in the discipline but also opens up their avenues in different domains of their interest as Computer technology plays a vital role in almost all disciplines.

This programme is structured to face the unique challenge of laying down a strong foundation of basics and fundamentals and keeping up with the rapid changes and advancements of computer technology. The programme introduces to the student various programming tools and techniques and the design and development of solutions and enables them to apply the knowledge appropriately to solve different problems. Students are given an understanding on mathematical concepts and entrepreneurship. This programme not only emphasises gaining knowledge in computer technology but also focusses on value education and ethics. It seeks to motivate the students to share their knowledge with the underprivileged and the oppressed.

Students completing Bachelor of Computer Applications will be equipped in computer technology ready to learn and innovate and skilled in choosing their career or higher studies clubbed with responsibility and righteousness.

VISION OF THE DEPARTMENT

To provide a wholesome educational environment, a platform for the students to reinvent themselves and launch into the technological and scientific arena together with human values.

MISSION OF THE DEPARTMENT

To impart learning as a process towards knowledge, research and productivity and provide education as a tool to excel in one's area of competence.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF COMPUTER SCIENCE

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.C.A. Programme, the students will be able to

PSO1	able to comprehend and apply the computing theory and practices, finding effective solutions to affairs, local and global.
PSO2	acquire, hone professional and critical thinking skills and capability to engage in independent and lifelong learning leading to a successful career in the broad context of technological change.
PSO3	communicate and function effectively as an individual, or as a member or leader in diverse teams, and in diversified domains.
PSO4	assess and apply the principles in the design, development, and presentation of solutions in the field of computer application and demonstrate employability/entrepreneurial skills with a commitment to professionalism.
PSO5	relate the impact of technology on society and evolve sustainable and ethical solutions.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
Bachelor of Computer Applications 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4									6	8
Part - II														
English	3	4	3	4									6	8
											Total		12	16
Part - III														
Major Core	3	5	4	6	4	6	5	5	4	5	5	5	25	32
	3	4	3	4	4	5	5	5	4	5	5	6	24	29
					4	5			5	5			9	10
Major Practical					1	1	2	4	1	2			4	7
					2	4	2	4	2	3	4	8	10	19
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	6			5	6	10	12
Int. Dis. Elective									5	6			5	6
											Total		107	135
Part - IV														
GE / Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3	3	3									6	6
Soft Skills (EL)	3	3											3	3
Soft Skill (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library								1					0	1
Mentoring													0	0
											Total		4	3
Total	26	30	26	30	24	30	24	30	25	30	24	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.C.A. DEGREE:COMPUTER APPLICATIONS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23CS/MC/FC13	Fundamentals of Computing	3	2	1	2	3	50	50	100	
23CS/MC/DL13	Digital Logic Fundamentals	3	3	1	0	3	50	50	100	
23CS/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
23EL/SS/PD13	Life Skills: Personality Development (EL)	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education									
Allied Core offered to students of Computer Science by Dept. of Commerce Shift II										
23CM/AC/EN15	Entrepreneurship - New Venture Creation	5	5	0	0	3	50	50	100	
SEMESTER-II										
23CS/MC/PO24	Procedure Oriented Programming	4	2	0	4	3	50	50	100	
23CS/MC/AD23	Algorithms and Data Structures	3	3	1	0	3	50	50	100	
23CS/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
23CS/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100	
	General Elective I / Basic Tamil I									
Allied Core Offered to students of Computer Science by Dept. of Commerce Shift II										
23CM/AC/AB25	Accounting for Business	5	5	0	0	3	50	50	100	
SEMESTER-III										
23CS/MC/OP34	Object Oriented Programming	4	2	0	4	3	50	50	100	
23CS/MC/FD34	Fundamentals of Database Management Systems	4	4	1	0	3	50	50	100	
23CS/MC/TE34	Software Engineering and Testing	4	3	1	1	3	50	50	100	
23CS/MC/P132	Database Management Systems Practical	2	0	0	4	3	50	50	100	
23CS/MC/ID31	Image Editing and Documentation	1	0	0	1	3	50	50	100	
CD / ET / SC	Value Education									
	General Elective II / Basic Tamil II									
Allied Core offered to students of Computer Science by Dept. of Mathematics										
23MT/AC/MS35	Mathematics for Computer Science I	5	5	0	0	3	50	50	100	
SEMESTER-IV										
23CS/MC/OS45	Operating Systems	5	5	0	0	3	50	50	100	
23CS/MC/WP45	Web Programming	5	5	0	0	3	50	50	100	
23CS/MC/P242	Operating Systems Practical	2	0	0	4	3	50	50	100	
23CS/MC/P342	Web Programming Practical	2	0	0	4	3	50	50	100	
	Major Elective I									
Allied Core offered to students of Computer Science by Dept. of Mathematics										
23MT/AC/MS45	Mathematics for Computer Science II	5	5	0	0	3	50	50	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.C.A. DEGREE:COMPUTER APPLICATIONS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-V									
23CS/MC/CN55	Computer Networks	5	5	0	0	3	50	50	100
23CS/MC/DS54	Essentials of Data Science	4	4	1	0	3	50	50	100
23CS/MC/FW54	Functional Web Development	4	3	0	2	1.5	50	50	100
23CS/MC/P452	Essentials of Data Science Practical	2	0	0	3	3	50	50	100
23CS/MC/CA51	Critical Analysis on an Advanced Technology	1	0	0	2	-	50	50	100
	General Elective III								
	SAP / SL								
Interdisciplinary Core (CS and PY) to students of Computer Science									
23ID/IC/HC55	Human Computer Interaction	5	5	1	0	3	50	50	100
SEMESTER-VI									
23CS/MC/SC65	Security Concepts	5	5	0	0	3	50	50	100
23CS/MC/CC65	Cloud Computing	5	5	1	0	3	50	50	100
23CS/MC/PR64	Project	4	0	0	8	-	50	50	100
23VE/SS/HL63	Life Skills:An Appraoch to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23CS/ME/AJ45	Advanced Java Programming	5	3	0	3	1.5	50	50	100
23CS/ME/DN45	Distributed Networking	5	5	1	0	3	50	50	100
23CS/ME/GP45	Game Programming	5	3	0	3	1.5	50	50	100
23CS/ME/AI45	Artificial Intelligence	5	5	1	0	3	50	50	100
23CS/ME/IT45	Internet of Things	5	5	1	0	3	50	50	100
23CS/ME/AD45	Algorithm Design Techniques	5	5	1	0	3	50	50	100
23CS/ME/MA45	Mobile App Development for Android	5	3	0	3	1.5	50	50	100
General Electives									
23CS/GE/CF22	Computer Fundamentals	2	2	0	0	-	50	-	100
23CS/GE/IA22	Image Editing and Animation	2	1	0	1	-	50	-	100
23CS/GE/CS22	Cyber Security	2	2	0	0	-	50	-	100
23CS/GE/DP22	Documentation and Presentation	2	1	0	1	-	50	-	100
23CS/GE/DA22	Introduction to Data Analysis	2	1	0	1	-	50	-	100
The Department will offer one Social Awareness / Service Learning Course									
Social Awareness Courses									
23CS/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23CS/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23CS/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.C.A. DEGREE:COMPUTER APPLICATIONS

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23CS/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23CS/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23CS/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23CS/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23CS/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23CS/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Service Learning Course (specific to the Department)									
23CS/SL/CB52	Computer Basics	2	2	0	0	-	50	-	100
Independent Electives									
23CS/UI/BC23	Block Chain	3	0	0	0	3	-	100	100
23CS/UI/DM23	Digital Marketing	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF COMPUTING

CODE:23CS/MC/FC13

CREDITS: 3

L T P: 2 1 2

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To demonstrate programming skills
- To enable the students to write and debug simple C programs
- To understand the process involved in execution of the program
- Ability to understand modular program development
- To compare and decide on best strategies to develop a code and debug.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and reproduce the structure of programming	K1
CO2	explain the fundamental concepts, branching, looping, arrays, and functions in C programming,	K2
CO3	utilize Linux commands and C programming concepts learnt to solve simple problems	K3
CO4	analyze the different types of functions and scope of variables	K4
CO5	develop an appropriate flow of logic to solve a given problem and choose proper debugging strategies for fixing errors	K5,K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Strategies for Problem Solving Problem Solving - General Problem-Solving Techniques 1.2 Files and directories, Editing text Login - Files and Directories - File Paths* - File/Directory Permissions –chmod command - Directory Navigation - cd, pwd, ls, ls -l commands - Creating and Manipulating Files and Directories using a Terminal -mkdir, cp, mv, rm, rm -R commands - Binary and Data Files - cat command - GUI based File Explorer – Difference between CLI and GUI - Command Based Text Editor - Creating/Opening/Closing a file - Making Changes and Saving - Copy/Cut and Paste operation - Find and Replace operation - Undo and Redo operation - File Navigation - Using a GUI Application - GUI based Text Editor	K1-K3	10	1-3
2	2.1 Basic elements of C Programming Basic Structure of a C program - #include, main function, blocks, statements –Compilation- Machine Language & High Level Language, Compiler, Executable - Variables - Integer Data Types - int, short, long - Unsigned Counterparts – Supported Range - sizeof operator - printf	K1-K6	15	1-5

UNIT	CONTENT	CL	Hrs	CO
	- Special Characters - new line, horizontal tab - scanf - Arithmetic Expression - Arithmetic Operators - Operator Precedence - Overflow and Underflow - Floating Point Data Types -float, double - Precision – Compound Assignment Operators - Increment and Decrement operators - Boolean Expression - Relational Operators - Logical Operators – Character Data Type - char – getchar – putchar - literals - C Tokens - Variable Naming Rules - Single and Multi-line Comments - Type Conversions - Bitwise Operators			
3	3.1 Debugging GDB - Adding Debugging Symbols to the Executable - Breakpoints – Starting Debugging Session - next command - Viewing Source - Inspecting Variables and its Type - continue command - Ending session - GDB command abbreviations	K1-K5	9	1-5
4	4.1 Branching and Looping, Arrays, Flowcharting Statements and Blocks - If – Else - Else If - Switch -case, break, default – Loops – For, Infinite Loop, While – Do-while - Break and Continue - Conditional Expressions - Goto and Labels - Array – Single and Two Dimensional Arrays - Flow Charts – Symbols - Start/Stop - Process - Decision Making - Input/Output - Connector)	K1-K6	15	1-5
5	5.1 Functions Function Prototype - Function Definition - Function call - Passing Arguments -Returning Values - Passing Arrays - Call Stack - GDB commands - Backtrace - Frame - Step - Difference between Next and Step – Finish - Recursion - Variable scope - Automatic Variables, External Variables, Static Variables - Constants – Const Keyword, Symbolic Constants - Enums - Built-in Functions - math.h: sqrt, pow, stdlib.h: rand, exit, abs	K1-K6	16	1-5

***Only for Practical Implementation - Unit 1: 1.2**

BOOKS FOR STUDY

Kernighan, Brian, and Dennis M. Ritchie. The C programming language. Prentice hall, 2017.
(Units 2,4,5)

Sobell, Mark G., and Matthew Helmke. A practical guide to Linux commands, editors, and shell programming. 4 ed., Prentice Hall Professional Technical Reference, 2018. (Unit 1.2 – 1.3)

V. Anton Spraul. Think like a programmer: An introduction to creative problem solving. No Starch Press, 2012. (Unit 1.1)

BOOKS FOR REFERENCE

Balagurusamy, E. programming in ANSI C. 7 ed., Tata McGraw-Hill Education, 2017

WEB RESOURCES

GNU GDB - <https://www.gnu.org/software/gdb/documentation/>

Using GNU's GDB Debugger by Peter Jay Salzman - <http://www.dirac.org/linux/gdb/> (Unit 3)

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Theory:

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (5)	$1 \times 10 = 10$	5	5
	K2 (5)		5	5
B (Internal Choice)	K2 (5)	$3 \times 5 = 15$	1	2
	K3 (5)		1	2
	K4 (5)		1	2
	Total	25	13	16

Practical :

Total Marks: 25

Duration: 45 minutes

Knowledge Level	Marks
K5	15
K6	10
Total	25

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion Two to three components will be prescribed

End Semester Examination:

Total Marks: 50

Duration: 90 minutes

Theory:

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (6)	$10 \times 1 = 10$	6	6
	K2 (4)		4	4
B	K1 (4)	$5 \times 2 = 10$	2	2
	K2 (6)		3	3
C (Internal Choice)	K1 (5)	$6 \times 5 = 30$	1	2
	K2 (5)		1	2
	K3 (10)		2	4
	K4 (10)		2	4
	Total	50	21	27

Practical :**Total Marks: 50****Duration: 90 minutes**

Knowledge Level	Marks
K5	30
K6	20
Total	50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/FC13												
I	Course Title: FUNDAMENTALS OF COMPUTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	-	3	1	1	-	-	2	1	1	1	1
CO 2	3	2	2	3	1	1	-	-	2	2	2	2	1
CO 3	3	2	2	3	2	2	-	-	3	2	2	2	1
CO 4	3	3	3	3	3	3	-	-	3	3	3	3	1
CO 5	3	3	3	3	3	3	-	-	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

DIGITAL LOGIC FUNDAMENTALS

CODE: 23CS/MC/DL13

CREDITS : 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To understand the number system, basic gates, circuits, memory and other computer components.
- To make use of Boolean algebra and solve Boolean expressions.
- To analyze the working principles of combinational and sequential circuits.
- To evaluate the Boolean expressions and determine the conversions of number system,
- To construct K-maps and other simple circuits using Boolean functions.

COURSE LEARNING OUTCOME:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate number systems and logic gates	K1
CO2	explain the number system, logic gates, combinational, sequential circuits and memory with other computer components.	K2
CO3	apply the combinational and sequential circuits for a specified problem	K3
CO4	simplify Boolean functions and draw circuits using logic gates	K4
CO5	evaluate the combinational, sequential circuits, registers, counters	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Digital System and Binary Numbers Digital Computer and Digital System – Number Systems -Decimal Numbers , Binary Numbers : Counting in Binary, The Weighted Structure of Binary Numbers, Octal Numbers, Hexadecimal Numbers and their Mutual Conversions - Compliments - 1's and 2's Complement, Signed Numbers, Arithmetic Operations: Addition, Subtraction with Signed Numbers, 9's and 10's Complement, BCD Numbers, BCD Addition, BCD Subtraction, Gray Code: Binary to Gray Code Conversion, Gray to Binary Conversion, Weighted Code : 8421 Code and Non Weighted Codes : ASCII and EBCDIC – Binary Storage and Registers – Binary Logic	K1,K2	12	1,2
2	2.1 Binary Logic and Logic Gates Boolean Algebra – Basic definitions – Axiomatic Definition of Boolean Algebra – Basic Theorem and Properties of Boolean Algebra - Boolean Functions – Canonical and Standard Forms – Digital Logic Gates	K1-K5	12	1 - 5

UNIT	CONTENT	CL	Hrs	CO
	2.2 Gate-Level Minimization The Map Method – Four-variable K-Map – Product - of-Sums simplification – Don't –Care Conditions – NAND and NOR Implementation – Exclusive-OR Function			
3	3.1 Combinational Logic Introduction – Combinational Circuits – Binary Adder-Subtractor – Decimal Adder – Binary Multiplier – Decoders – Encoders – Multiplexers	K1-K5	10	1-5
4	4.1 Synchronous Sequential Logic Introduction – Sequential circuits – Storage Elements: Latches, Flip-flops - RS, JK, D Flip flops, Master slave JK flip-flop 4.2 Registers and Counters Registers – Shift Registers – Ripple counters – Synchronous Counters – Other Counters	K1-K5	10	1-5
5	5.1 Memory and Programmable Logic RAM and ROM – Memory Decoding – Error Detection and Correction – Programmable Logic Array – Programmable Array Logic – Sequential Programmable Devices. 5.2 Inside the Computer The Von Neumann Architecture – CPU Subunits and Data Path – CPU and Main Memory – Stored Program Computer – Role of Input/output Devices – Machine vs Assembly Languages.	K1, K2	8	1,2

BOOKS FOR STUDY

David Reed. A Balanced Introduction to Computer Science, 3rd ed. Prentice Hall, 2010. [Unit 5.2: Chapter 14]

Mano, M. Morris, Micheal D. Ciletti, Digital Design with an Introduction to Verilog HDL, 6th ed. Pearson, 2018. [Unit 2: Chapters 2 & 3, Unit 3: Chapter 4, Unit 4.2: Chapter 6, Unit 5.1: Chapter 7]

Mano, M. Morris. Digital logic and computer design. Pearson Education India, 2017. [Unit 1: Chapter 1, Unit 4.1: Chapter 6]

BOOKS FOR REFERENCE

Charles H. Roth Jr., Larry L. Kinney, Fundamentals of Logic Design, Sixth Edition, Cengage Learning.

Morris Mano, Charles K. Kime, Tom Martin, Logic and computer design fundamental, 5th Edition, Pearson.

PATTERN OF ASSESSMENT:**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:**Total Marks: 50**

Quiz /Assignment/Seminar/Group Discussion/Problem solving/Algorithm Tracing

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/DL13												
I	Course Title: DIGITAL LOGIC FUNDAMENTALS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	2	1	1	1	-	1	1	1	1	-
CO 2	3	2	2	2	2	1	1	-	1	1	2	1	-
CO 3	3	2	2	2	2	1	1	-	3	2	2	2	-
CO 4	3	3	2	2	3	3	2	-	3	3	2	3	-
CO 5	3	3	2	2	3	3	2	-	3	3	3	3	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Core offered for
B.A. / B.Sc. / B.Com. /B.C.A/ B.S.W Degree Programmes**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23CS/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group discussions

Group presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.V.A/B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Allied Core Course Offered by the Department of Commerce Shift II (General)
for B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENTREPRENEURSHIP-NEW VENTURE CREATION

CODE: 23CM/AC/EN15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide comprehensive knowledge to the students on the various aspects related to entrepreneurial development.
- To familiarize students with the practical knowledge of establishing a business.
- To help students to understand the stages in the process of setting up the business.
- To enable students to understand the skills required for setting up a new business.
- To acquaint students with the knowledge of E-business.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	relate and understand the important elements for the success of entrepreneurial ventures	K1, K2
CO2	solve the challenges in the process of setting up a Business	K3
CO3	analyse the business environment in order to identify business opportunities	K4
CO4	evaluate the effectiveness of different entrepreneurial strategies	K5
CO5	formulate a new business proposal	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Business – Meaning and Forms of Business Organization 1.2 Role of Small Business in Economic Development 1.3 Conceptual Definition of Entrepreneur, Entrepreneurship, Characteristics and Functions of Entrepreneur 1.4 Types and Functions of Entrepreneur 1.5 Factors influencing entrepreneurship development – Internal and External 1.6 Barriers to Entrepreneurship	K1- K3 K3 K1-K4 K1-3 K1-3 K3	10	1 1-2 1-3 1-3 1-3 1-3
2	Enterprise Launching 2.1 New Business Launching - Stages 2.2 Opportunity Identification and Selection 2.3 Idea Generation – Sources and the process of Idea Selection 2.4 Business Plan – meaning, contents and significance of business plan 2.5 Assessment of project feasibility - Dealing with basic and initial problems of setting up of Enterprises 2.6 Drafting a Model Project / Business Plan	K 1-3 K 1-4 K1-6 K1-3 K1-6 K1-6	15	1-2 1-3 1-5 1-3 1-5 1-5
3	Financing of Enterprise 3.1 Meaning, Need for Financial Planning 3.2 Sources of finance – Internal, External sources 3.3 Institutions Assisting Business Enterprise – Government, Banking and Non Banking Institutions, Lease Financing and New Venture Financing	K1-3 K1-3 K1-3	15	1-3 1-3 1-3
4	Management of Enterprise 4.1 Management – Meaning and Functions of Management 4.2 Production Management – Product Design, Plant Layout and Location 4.3 Inventory Management – Meaning, Objectives and Benefit 4.4 Marketing Management – Problem of Marketing of Small Enterprises	K1-3 K2 K1 K1-4	15	1-3 1-3 1 1-3

5	E – Business 5.1 Meaning, Development and the Economic Influence of the E-Business 5.2 Fundamentals in E -Business 5.3 Planning E-Products and Services 5.4 Operation of E-Business - E – Payment and E-Security	K1-2 K 1-3 K 1-3 K 1-3	10	1-2 1-3 1-3 1-3
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BOOK FOR STUDY

S.Khanka, Entrepreneurial Development, S. Chand & Co, New Delhi, 2016

BOOKS FOR REFERENCE

Nanda Gopal V B, Gordon. E, Gupta Entrepreneurial Development, Vikas Publishing 2015

Jayashree Suresh, Entrepreneurial Development, Margham Publications, New Delhi, 2012

Charantimath, Entrepreneurship development & Small business enterprise, Pearson Edn., New Delhi, 2013

Vasant Desai, Dynamics of Entrepreneurial Development and Management, Himalaya Publishing Company, 2012

JOURNALS

Journal of development entrepreneurship

Journal of entrepreneurship education

Journal of Business venturing

WEB RESOURCES

<http://www.entrepreneur.com>

<http://www.businessesforsale.com>

<http://www.sba.gov>

<http://joe.sagepub.com/content/19/2.toc>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

SECTION	Knowledge Level	MARKS	Pattern
A	K1	4	(2 x 2=4)
B	K2	6	(3 x 2 = 6)
C	K3	10	(1 x 10 =10) (Choice)
D	K4	10	(1 x 10 =20) (Choice)
E	K5	20	(1 x 20 =20) (Choice)
		50	

Other Components: Total Marks : 50

Categories of Component	Knowledge Level	Marks
Quiz/MCQ	K1 & K2	20
Assignment	K3 & K4	20
Critique/Seminar/Presentation	K5 & K6	10

End Semester Examination:**Total Marks: 100****Duration: 3 hours**

SECTION	Knowledge Level	MARKS	Pattern
A	K1	10	(5x 2=10)
B	K2	10	(5 x 2 = 10)
C	K3	20	(2 x 10 =20) (Choice)
D	K4	20	(2 x 10 =20) (Choice)
E	K5	40	(2 x 20 =40) (Choice)
		100	

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23CM/AC/EN15												
	Course Title: Entrepreneurship – New Venture Creation												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

PROCEDURE ORIENTED PROGRAMMING

CODE:23CS/MC/PO24

CREDITS: 4

L T P: 2 0 4

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the concepts involved in structures, unions, pointers, file handling and preprocessing.
- To demonstrate the understanding of basic data structures by implementing using C.
- To understand in detail the steps involved in the translation of source code to object code
- To evaluate the issues, dependency and different methods of solving a given problem and develop a better solution.
- To develop problem-solving skills by presenting real-world problems and creating solutions using C.

COURSE LEARNING OUTCOMES

COs	DESCRIPTION	CL
CO1	recall the concepts involved in structures, unions, pointers, file handling and preprocessing	K1
CO2	explain the acquired knowledge appropriately to a given problem	K2
CO3	choose appropriate data structures to solve any given problem	K3
CO4	analyze the different C concepts involved in designing a large program	K4
CO5	assess the issues, dependency and different methods to develop a better solution for any given problem	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Pointers Pointers variable – Address of and Dereferencing operators – Declaring a pointer –Initializing a pointer - Pointers and Function Arguments – Dynamic memory allocation – malloc, calloc, realloc and free - Pointers and Arrays - Address Arithmetic - Character Pointers and Functions - Pointer Arrays - Pointers to Pointers - Multi-dimensional Arrays - Initialization of Pointer Arrays - Pointers vs. Multi-dimensional Arrays - Pointers to Functions 1.2 String Concepts String representation – Initialization - Length – Compare – Copy – Concatenate –Substring - Search – Replace – Conversion to int and vice versa 1.3 String built-in functions strlen, strcmp, strcpy, strcat, strchr, strstr, atoi	K1-K3	20	1-3
2	2.1 Structures and Unions Defining a Structure - Declaring a structure variable - Member operator – Structures and Functions - Arrays of Structures - Pointers to Structures - Nested Structures - Arrow operator - Self-referential Structures - Typedef - Unions - Bit-fields	K1-K5	19	1-5
3	3.1 Designing a Large Program Issues in developing a large program - Module & its Components (Header files, Object files & The process of linking) - Make utility – MakeFile structure (Rules, Targets, Prerequisites, Commands) – Variables - Dependency Checking –Minimizing Rebuilds - Invoking Make – Basic Make syntax Storage classes – extern keyword in multiple files	K1-K6	12	1 - 5
4	4.1 File I/O File Pointers - Opening a file - Creating a file - Closing - Reading - Writing - File Access (Sequential, Random) - Error Handling 4.2 Command Line Arguments	K1-K5	17	1-5
5	5.1 Pre-processing File Inclusion, Macro Substitution, Conditional Compilation, Macros – Simple, Nested, Argumented	K1-K2	10	1

OPTIONAL SELF STUDY

The following source code will help enhance C skills of the students. Hence it is recommended.

- Source code walkthrough and demo - Listing Directories Example

BOOKS FOR STUDY

W. Kernighan, Brian, and M. Ritchie, Dennis. C Programming Language. N.p., CreateSpace Independent Publishing Platform, 2017.

Yashavant Kanetkar Let Us C: Authentic guide to C programming language. BPB Publications. Nineteenth Edition.2022.

Mecklenburg, Robert. Managing Projects with GNU Make: The Power of GNU Make for Building Anything. " O'Reilly Media, Inc.", 2004.

BOOKS FOR REFERENCE

Balagurusamy, E. programming in ANSI C. 8 ed., Tata McGraw-Hill Education, 2019

Stallman, Richard M., and Roland McGrath, Paul D. Smith "GNU Make-A Program for Directing Recompilation." Version 4.2, May 2016

WEB RESOURCES

<https://www.gnu.org/software/make/manual/make.html>

https://www.gnu.org/software/make/manual/html_node/Simple-Makefile.html

https://www.cs.swarthmore.edu/~newhall/unixhelp/howto_makefiles.html

<https://archive.nptel.ac.in/courses/106/104/106104128/>

PRACTICAL EXERCISES

- Implementing different sorting and searching algorithms
- Programs to manipulate pointers using pointers and functions, pointers and arrays, pointers and strings
- Programs using structures, nested structures, structures and pointers
- and dynamic memory allocation and unions
- Implementing stack, queue, linked list data structures
- Program to create a file, perform copying, merge and search operations using command line arguments
- Programs using pre-processing

PATTERN OF ASSESSMENT**Continuous Assessment Test:****Theory:****Total Marks: 25****Duration: 45 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (5)	$1 \times 10 = 10$	5	5
	K2 (5)		5	5
B (Internal Choice)	K2 (5)	$3 \times 5 = 15$	1	2
	K3 (5)		1	2
	K4 (5)		1	2
	Total	25	13	16

Practical :**Total Marks: 25****Duration: 45 minutes**

Knowledge Level	Marks
K5	15
K6	10
Total	25

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion **Two to three** components will be prescribed

End Semester Examination:**Total Marks: 50****Duration: 90 minutes****Theory:**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (6)	$10 \times 1 = 10$	6	6
	K2 (4)		4	4
B	K1 (4)	$5 \times 2 = 10$	2	2
	K2 (6)		3	3
C (Internal Choice)	K1 (5)	$6 \times 5 = 30$	1	2
	K2 (5)		1	2
	K3 (10)		2	4
	K4 (10)		2	4
	Total	50	21	27

Practical :**Total Marks: 50****Duration: 90 minutes**

Knowledge Level	Marks
K5	30
K6	20
Total	50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/PO24												
II	Course Title: PROCEDURE ORIENTED PROGRAMMING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	3	1	1	-	-	2	1	1	1	1
CO 2	3	2	2	3	1	1	-	-	2	2	2	2	1
CO 3	3	3	3	3	2	2	-	-	3	2	3	2	1
CO 4	3	3	3	3	3	3	-	-	3	3	3	3	1
CO 5	3	3	3	3	3	3	-	-	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

ALGORITHMS AND DATA STRUCTURES

CODE: 23CS/MC/AD23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To understand the searching, sorting algorithms and basic data structures.
- To make use of the data structures in real time applications
- To analyze the effectiveness of algorithms using Asymptotic notations.
- To evaluate the expressions and determine the operations of list, stack, queue.
- To build heap trees and basic graphs

COURSE LEARNING OUTCOME:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the searching, sorting algorithms, List, Stack, Queue, Tree and Graphs	K1
CO2	explain the algorithms, data structures and hashing functions	K2
CO3	make use of the different data structures for a given problem	K3
CO4	analyse the searching, sorting algorithms and the data structures	K4
CO5	determine the data structure for a given application	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction to Algorithms and Data Structures Pseudo code - Algorithm - Characteristics (Finite steps, Unambiguous, Input, Output) - Algorithm Notations - Efficiency of Algorithm- Role of Technology in Efficiency – Best, Average, Worst case – Asymptotic notations - Abstract Data Type –Examples - Data Structure- Examples - Difference between ADT and Data Structures 1.2 Search Algorithms Linear - Binary 1.3 Sorting Algorithms Bubble Sort - Insertion Sort	K1-K4	10	1 - 4
2	2.1 List ADT specification - Operations – Traversing, Searching, Insert, delete – Implementation - Array, Memory Allocation,	K1-K5	11	1 - 5

PATTERN OF ASSESSMENT:**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components: Total Marks: 50

Quiz /Assignment/Seminar/Group Discussion/Problem solving/Algorithm Tracing

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/AD23												
II	Course Title: ALGORITHMS AND DATA STRUCTURES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	1	2	1	1	-	2	1	1	2	-
CO 2	3	2	2	1	2	1	1	-	2	1	2	2	1
CO 3	3	3	3	1	2	1	1	-	3	2	2	3	1
CO 4	3	3	3	1	2	1	1	-	3	2	2	3	1
CO 5	3	3	3	1	3	2	2	-	3	3	2	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core offered for
B.A. / B.Sc. / B.Com. /B.C.A/ B.S.W Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23CS/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water)and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A/ B.C.A/B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23CS/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group discussions
Group presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Allied Core Course Offered by the Department of Commerce Shift II (General)
For B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

ACCOUNTING FOR BUSINESS

CODE: 23CM/AC/AB25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize students with the basic accounting principles
- To expose students to the importance of cost ascertainment
- To provide an understanding on the project appraisal techniques
- To enable students to take better decisions in business
- To educate students with ratio analysis

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to

COs	DESCRIPTION	CL
CO1	comprehend with the basics of accounting	K1
CO2	interpret Cost analysis to understand and control expenses.	K2
CO3	apply appraisal techniques for project evaluation	K3
CO4	develop the ability to use accounting information on business decisions	K4
CO5	measure and judge the financial position of an organization through Ratio analysis	K5

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Accounting – Meaning, Objectives and Branches of Accounting 1.2 Introduction to Double Entry System 1.3 Preparation of Journal and Trial Balance 1.1 Preparation of Trading, Profit and Loss Account and Balance Sheet of a Sole Trader	K1-K2 K1-K2 K1-K4 K1-K5	15	CO 1-5
2	Cost Ascertainment 2.1 Meaning of Cost, Types of cost – Direct and Indirect 2.2 Preparation of Statement of Cost and Profit 2.3 Ascertainment of Cash Requirement – Budgets – Preparation of Cash Budget	K1-K3 K1-K5 K1-K5	10	CO 1-5

UNIT	CONTENT	CL	HRS	CO
3	Project Appraisal Techniques 3.1 Evaluation Techniques 3.2 Pay Back Period 3.3 Average Rate of Return 3.4 Net Present Value 3.5 Internal Rate of Return and Profitability Index	K1-K4 K1-K4 K1-K4 K1-K5 K1-K5	15	CO 1-5
4	Decision-Making Technique 4.1 Marginal Costing - Meaning, Advantages, Limitations, Breakeven Analysis 4.2 Cost-Volume Profit Analysis- P/V Ratio - Margin of Safety 4.3 Application – Key factor, Product Mix and Sales Mix	K1-K4 K1-K5 K1-K5	15	CO 1-5
5	Techniques for Analysing Financial Positions 5.1 Techniques for Financial Statement Analysis – Comparative Statement, Common Size Statement and Trend Analysis 5.2 Ratio Analysis – Profitability, Liquidity and Solvency	K1-K5 K1-K5	10	CO 1-5

BOOKS FOR STUDY

Jain S. P., and Narang K. L., Cost and Management Accounting, Ludhiana, Kalyani Publishers, 2006.

Reddy T.S and Murthy A, Financial Accounting, Chennai, Margham Publications, 2008.

BOOKS FOR REFERENCE

Bodhanwala J. Ruzbeh , Understanding and Analysing Balance Sheets using

Excel Worksheet, 2004, 2nd edition, Prentice- Hall of India, New Delhi

Gupta, R.L., Radhaswamy, M., Advanced Accountancy (Vol I, III & IV), 2005,

5th edition, Sultan Chand and Sons, New Delhi

Jain, S.P., K.L Narang, Advanced Accountancy (Part II), 2005, 12th edition,

Kalyani Publishers, New Delhi

Nadhani A. K. and K.K., Nadhani Implementing Tally 7.2, 2005, 1st edition

JOURNALS

International journal of accounting

The Chartered Accountant: Journal of the Institute of Chartered Accountants of India.

Indian Journal of Finance

Journal of Accounting & Finance: Research Development Association,

WEB RESOURCES

www. icai.org

www.journals.elsevier.com

www. emeraldgroupublishing.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(4)	2x2=4	2K1 Question	2K1 Question
B	K2(6)	3x2=6	3K2 Question	3K2 Question
C	K3(10)	1x10=10	1K3 Question	2K3 Question
D	K4(10)	1x10=10	1K4 Question	2K4 Question
E	K5(20)	1x20=20	1K5 Question	2K5 Question
	Total	50	8	11

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be Answered	No of Questions to be set
A	K1(10)	5x2=10	5K1 Question	5K1 Question
B	K2(10)	5x2=10	5K2 Question	5K2 Question
C	K3(20)	2x10=20	2K3 Question	3K3 Question
D	K4(20)	2x10=20	2K4 Question	3K4 Question
E	K5(40)	2x20=40	2K5 Question	4K5 Question
	Total	100	16	20

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23CM/AC/AB25												
	Course Title: ACCOUNTING FOR BUSINESS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	1	1	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	2	2	3	2	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

OBJECT ORIENTED PROGRAMMING

CODE:23CS/MC/OP34

CREDITS: 4

L T P: 2 0 4

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To learn the basic concepts of object oriented programming
- To understand and demonstrate the concepts of inheritance and interfaces
- To provide an understanding of concepts such as packages, exception handling
- To introduce the concepts of multithreading and generics
- To give insight about java library

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and reproduce basic concepts of object oriented programming	K1
CO2	explain the object oriented concepts, multithreading, generics and libraries	K2
CO3	utilize object oriented concepts and library to find a solution for simple problems	K3
CO4	select a suitable object oriented concept for the given problem	K4
CO5	build solution for a real world problem using the object oriented concepts, generics and libraries	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Basic Concepts Features of Java –Bytecode - Data Types – Variables – Arrays - Operators - Control Statements - Scanner - Javadoc	K1-K4	18	1-4
	1.2 Classes, Objects and Constructors Classes - Overloading Methods- Overloading Constructors- Objects as Parameters - Returning Objects – Access Control - static - final - Nested and Inner Classes	K1-K6		1-5
2	2.1 Inheritance Inheritance Basics - Types of inheritance: Single, Multilevel, Hierarchical - Member Access - super - Method Overriding - Dynamic Method Dispatch - Abstract Classes - final with Inheritance 2.2 Interfaces Defining an Interface- Implementing Interfaces- Partial Implementations – Applying Interfaces – Variables in Interfaces – Extending Interfaces	K1-K6	16	1-5

UNIT	CONTENT	CL	Hrs	CO
3	3.1 Packages Defining a Package - Finding Packages and classpath - Access Protection – Importing Packages 3.2 Exception Handling Exception-Handling Fundamentals - Exception Types - Uncaught Exceptions – Using try and catch- Multiple catch Clauses - Nested try Statements – throw – throws – finally - Java’s Built-in Exceptions - Creating Own Exception Subclasses - Checked and Unchecked Exceptions	K1-K6	14	1-5
4	4.1 Multithreaded Programming The Java Thread Model - Creating a Thread - Synchronization 4.2 Generics Generics - Simple Generics example, Generic Class with two type parameters, General form of a Generic class, Bounded Types	K1-K3	15	1-5
5	5.1 Java Library String Handling – Exploring Java. Lang: Primitive type Wrappers - Number, Double and Float, Character – Math 5.2 Java.util Collection Framework - Interfaces: Collection, list, Enumeration, Iterator, List Iterator - Classes: Array List - Utility Classes - Random, Calendar	K1-K3	15	1-3

BOOK FOR STUDY

Schildt, Herbert. Java: The Complete Reference, 11e. McGraw-Hill Education Group, 2020.

BOOKS FOR REFERENCE

Eckel, Bruce. Thinking in Java. 4th ed. Pearson Education, 2006.

Liang, Y. Daniel. Intro to Java Programming, Brief Version. Pearson Higher Ed, 2017.

Holmes, J. Barry, Joyce, T. Daniel. Object-oriented Programming with Java. Jones & Bartlett Learning. 2001.

Somashekara, Guru D. S., Manjunatha K. S., Object Oriented Programming with Java. PHI Learning Pvt. Ltd., 2017.

WEB RESOURCES

<http://docs.oracle.com/javase/tutorial/java/index.html/>

<https://archive.nptel.ac.in/courses/106/105/106105191/>

<https://netbeans.apache.org/>

PATTERN OF ASSESSMENT:**Continuous Assessment Test:****Theory:****Total Marks: 25****Duration: 45 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (5)	$1 \times 10 = 10$	5	5
	K2 (5)		5	5
B (Internal Choice)	K2 (5)	$3 \times 5 = 15$	1	2
	K3 (5)		1	2
	K4 (5)		1	2
	Total	25	13	16

Practical:**Total Marks: 25****Duration: 45 minutes**

Knowledge Level	Marks
K5	15
K6	10
Total	25

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion, mini project

Two to three components will be prescribed**End Semester Examination:****Theory:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (6)	$10 \times 1 = 10$	6	6
	K2 (4)		4	4
B	K1 (4)	$5 \times 2 = 10$	2	2
	K2 (6)		3	3
C (Internal Choice)	K1 (5)	$6 \times 5 = 30$	1	2
	K2 (5)		1	2
	K3 (10)		2	4
	K4 (10)		2	4
	Total	50	21	27

Practical:**Total Marks: 50****Duration: 90 minutes**

Knowledge Level	Marks
K5	30
K6	20
Total	50

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/OP34												
III	Course Title: OBJECT ORIENTED PROGRAMMING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	1	2	3	3	2	2	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	3	2	3	2	2	3	3	3	3	3
CO 4	2	3	2	3	3	3	3	2	3	3	2	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEMS

CODE: 23CS/MC/FD34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable the students to understand the difference between database systems and file systems and the importance of relational data model
- To enable a comprehensive and detailed understanding of the features and characteristics of database systems
- To understand functional dependencies and normalization of database and be able to apply the same on a database
- To be able to apply knowledge to new problem
- To demonstrate an understanding on transaction processing, concurrency control and DB recovery techniques

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and differentiate the flat file system with database management system and relational database	K1
CO2	explain the database design and modeling techniques with transaction and recovery management	K2
CO3	utilize relational data modeling and conceptual modelling in storing and retrieving data	K3
CO4	analyze relational database management techniques to store and manage data effectively	K4
CO5	develop a normalized database using SQL/PLSQL for any real time scenario	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction to Databases Introduction - An example - Characteristics of the Database Approach - Actors on the Scene - Workers behind the Scene - Advantages of using the DBMS Approach - A Brief History of Database Applications -When Not to Use a DBMS 1.2 Database System Concepts and Architecture Data Models, Schemas and Instances - Three Schema Architecture and Data Independence - Database Languages and Interfaces – The Database System Environment - Centralized and Client/Server Architectures for DBMSs - Classification of Database Management Systems	K1-K3	9	1-3

UNIT	CONTENT	CL	Hrs	CO
2	2.1 The Relational Data Model and Relational Database Constraints Relational Model Concepts - Relational Model Constraints and Relational Database Schemas - Update Operations, Transactions and Dealing with Constraint 2.2 Data Modeling Using the Entity-Relationship Model Using High-Level Conceptual Data Models for Database Design - A Sample Database Application - Entity Types, Entity Sets, Attributes and Keys - Relationship Types, Relationship Sets, Roles and Structural Constraints - Weak Entity Types - Refining the ER Diagram – ER Diagrams, Naming Conventions and Design Issues - Relationship Types of Degree Higher than Two	K1-K6	14	1-5
3	3.1 Basic SQL SQL Data Definition and Data Types - Specifying Constraints in SQL - Basic Retrieval Queries in SQL- Insert, Delete and Update Statements in SQL - Additional Features of SQL 3.2 More SQL: Complex Queries, Views and Schema Modification More Complex SQL Retrieval Queries - Specifying Constraints as Assertions – Views - Schema Change Statements in SQL 3.3 The Relational Algebra Unary Relational Operations: Select and Project - Relational Algebra Operations from Set Theory - Binary Relational Operations: Join and Division, Additional Relational Operations, Examples of Queries in Relational Algebra.	K1-K6	14	1-5
4	4.1 DB design and normalization Basics of Functional Dependencies and normalization for relational DB-relational: 1 NF, 2 NF, 3 NF and BCNF 4.2 PL/SQL PL/SQL Blocks – Architecture - Data Types and their usage - Control Structures - Exceptions - Predefined, User Defined Cursors and Triggers: Introduction – Cursors - Cursor Management – Procedures – Functions - Triggers and its types	K1-K6	14	1-5
5	5.1 Transaction processing and Concurrency control Transaction and System Concepts, Desirable Properties of Transactions, Characterizing Schedules Based on Recoverability and Serializability, Transaction Support in SQL - Concurrency Control Techniques, Validation Concurrency Control Techniques.	K1, K2	14	1, 2

BOOKS FOR STUDY

Elmasri, Ramez, and Shamkant Navathe. Fundamentals of database systems. Addison-Wesley Publishing Company, 2010.

Bruce Momjian. PostgreSQL: Introduction and Concepts. Addison-Wesley, 2001.

Korry Douglas, Susan P. Douglas. PostgreSQL: The Comprehensive Guide to Building, Programming, and Administering PostgreSQL Databases. 3rd edition. Sams Pub, 2006.

BOOKS FOR REFERENCE

Rully Yulian MF. Learning SQL & PL/pgSQL Programming in PostgreSQL. 2020

Chopra, Rajiv. *Database Management System (DBMS) A Practical Approach*. S. Chand Publishing, 2010.

Date C. J. *Introduction to Database Systems*. USA: Pearson Education, 2003.

Garcia-Molina, Hector. *Database systems: the complete book*. Pearson Education India, 2008.

Ramakrishna, Raghu and Johannes Gerhke. *Database Management Systems*. McGraw Hill, 2002.

Silberschatz, Abraham, Henry F. Korth, and S. Sudarshan. *Database System Concepts*. McGraw Hill, 2008.

WEB RESOURCES

<https://sqlbolt.com/>

https://onlinecourses.nptel.ac.in/noc22_cs51/preview

<https://www.db-book.com/Previous-editions/db7/index.html>

<https://www.postgresql.org/>

https://amirsmvt.github.io/Database/Static_files/Fundamental_of_Database_Systems.pdf

PATTERN OF ASSESSMENT:

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K5 – 5		1	2
	K6 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:

Total Marks: 50

Quiz /Assignment / Seminar / Group Discussion / Open Book Test

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K5 – 12		1	2
	K6 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/FD45												
III	Course Title: FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEMS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	2	2	1	-	-	3	3	1	2	-
CO 2	3	1	1	2	2	1	-	-	3	3	1	2	-
CO 3	3	3	3	2	2	2	3	1	3	3	2	3	2
CO 4	3	3	3	2	2	2	3	1	3	3	2	3	1
CO 5	3	3	3	2	2	2	3	1	3	3	2	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

SOFTWARE ENGINEERING AND TESTING

CODE: 23CS/MC/TE34

CREDITS: 4

L T P: 3 1 1

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To understand the software process and life cycle models.
- To make use of life cycle models and frameworks for a given scenario
- To analyze the requirement engineering and scenario models
- To evaluate the testing scenario based on test cases
- To understand the software configuration and project management techniques

COURSE LEARNING OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the software process models and the phases of a software project	K1
CO2	compare different software development process models and distinguish the appropriate models for real time project	K2
CO3	apply the knowledge, techniques and skills in the development of a software product.	K3
CO4	design an appropriate architectural model and test the application	K4
CO5	choose the software process models and testing techniques for an application	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Software Engineering Nature of Software -Software Process - Principles	K1-K3	14	1 - 3
	1.2 Software process models Defining a framework activity, Waterfall model, Incremental process models, RAD model	K1-K6		1-5
	1.3 Agile development Agility - Principles of an Agile process - Extreme programming(XP) - XP process -Scrum			
2	2.1 Understanding Requirements Requirement Engineering-Establishing the Groundwork- Eliciting Requirements –Developing Use Cases - Building the Requirements Model -Negotiating Requirements - Validating Requirements-	K1-K6	13	1 - 5

UNIT	CONTENT	CL	Hrs	CO
	2.2 Requirements Modelling Analysis Rules of Thumb - domain analysis -UML models that supplement use case- Data modelling concepts - class based modelling			
3	3.1 Software Testing Software Testing Techniques - Test Case Design - Unit testing -Integration testing -Test driven development - Validation testing, alpha & beta Testing-System testing White-Box testing -Basis Path Testing - Control Structure Testing - Black-Box Testing	K1-K6	13	1-5
4	4.1 Quality Management McCall's Quality factors – Quality assurance – Review – Informal Reviews-Formal Technical reviews– Walkthrough – Inspection 4.2 Project Metrics Size-Oriented metrics, LOC, Function Point 4.3 Software Configuration Management Software Configuration Management – The SCM Repository, The SCM Process	K1-K5	13	1-5
5	5.1 Project Management Concept The Management Spectrum – People - The Product - The Process – The Project - The W5HH Principle. 5.2 Estimation for Software Project The Project Planning Process - Software Scope and Feasibility – Resources - COCOMO Model -Reactive Vs Proactive Risk Strategies – RMMM plan	K1-K3	12	1 -3

BOOKS FOR STUDY

Roger S. Pressman, Bruce R. Maxim. Software Engineering: A Practitioner's Approach, 7 th ed., McGraw-Hill International Edition, 2010.

Sommerville, Ian. Software Engineering, 9th ed., Pearson Education Asia, 2011

BOOKS FOR REFERENCE

Ghezzi, Carlo, Mehdi Jazayeri, and Dino Mandrioli. Fundamentals of software engineering. Prentice Hall PTR, 2002.

Pfleeger and Lawrence. Software Engineering: Theory and Practice. 2nd ed. Pearson Education, 2010

Schach, Stephen R. Object-oriented software engineering. McGraw-Hill, 2008.

WEB RESOURCES

<https://nptel.ac.in/courses/106101163>

<https://nptel.ac.in/courses/106105182>

<https://www.coursera.org/learn/introduction-to-software-engineering>

PATTERN OF ASSESSMENT:**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K5 – 5		1	2
	K6 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components: Total Marks: 50

Component 1: UML Diagrams using STARUML open source tool (Class,Usecase,Activity,Swimlane)

Component 2: Manual Test case , Automation Testing using JUNIT

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 10	6X10=60	1	2
	K2 – 10		1	2
	K3 – 10		1	2
	K4 – 10		1	2
	K5 – 10		1	2
	K6 - 10		1	2
	Total	100	30	40

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/TE34												
III	Course Title: SOFTWARE ENGINEERING AND TESTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	1	1	2	2	2	1	-	1	1	1	1	1
CO 2	2	2	1	2	2	2	2	-	2	2	2	2	1
CO 3	2	2	2	2	3	3	2	-	2	2	2	2	1
CO 4	2	3	3	3	3	3	2	-	2	2	3	3	1
CO 5	2	3	3	3	3	3	2	-	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

DATABASE MANAGEMENT SYSTEMS PRACTICAL

CODE: 23CS/MC/P132

CREDITS: 2

L T P: 0 0 4

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand the database management concepts and database design
- To understand and normalize the table based on the dependencies
- To be able to store and retrieve data using SQL commands with keys and constraints
- To understand procedures and functions using PL/SQL
- To be able to apply exceptions handling and triggers

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamentals concepts of relational database management system	K1
CO2	demonstrate the sql queries and pl/sql procedures, functions, cursors, error handling and triggers	K2
CO3	apply sql commands and pl/sql to store and retrieve data from the database	K3
CO4	examine the database design and relational database management	K4
CO5	design and create database along with normalization, keys and constraint	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

List of exercises	CL	Hrs	CO
1. Schema design 2. ER modeling using a tool 3. DDL commands 4. DML and TCL commands 5. SQL programming 6. Sub queries 7. Single Row and Aggregate functions, Set operations. 8. Joins 9. Views, index, synonyms and sequence 10. Report generation 11. Cursors 12. Procedures & Functions 13. Triggers 14. Exception Handling	K1-K6	52	1-5

PATTERN OF ASSESSMENT:**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

CRITERION	Knowledge Level	Marks
Writing SQL Commands and PL/SQL programs	K1	5
Record Notebook, Viva	K2	10
Execution	K3, K4	25
Result and Output	K5, K6	10
	Total	50

Other Components: Total Marks: 50

Case study/ Practical/ Mini Project

End Semester Examination: Total Marks: 100 Duration: 3 Hours

CRITERION	Knowledge Level	Marks
Writing SQL Commands and PL/SQL programs	K1	10
Record Notebook, Viva	K2	20
Execution	K3, K4	50
Actual and Expected Output Comparison and result	K5, K6	20
	Total	100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/P132												
III	Course Title: Database Management Systems Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	2	2	1	-	-	3	3	1	2	-
CO 2	3	1	1	2	2	1	-	-	3	3	1	2	-
CO 3	3	3	3	2	2	2	3	1	3	3	2	3	2
CO 4	3	3	3	2	2	2	3	1	3	3	2	3	1
CO 5	3	3	3	2	2	2	3	1	3	3	2	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

IMAGE EDITING AND DOCUMENTATION

CODE: 23CS/MC/ID31

CREDIT: 1

L T P: 0 0 1

TOTAL TEACHING HOURS: 13

OBJECTIVES OF THE COURSE

- To pursue practical skills in image editing and animation using GIMP
- To impart creativity through logo design and 2D animation in GIMP
- To give students the knowledge and understanding to prepare formatted documents and powerful presentations
- To familiarize the basics and advanced concepts of Word, Excel and PowerPoint
- To understand the method of protecting documents and Presentation using Canva

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate image editing using GIMP, documentation using word processing and tables, charts using excel	K1
CO2	explain the textures, logos and animation using GIMP and also formatting options in word document and excel for personal, academic and business sectors	K2
CO3	apply the tools and techniques to edit an image and to format a document/Spreadsheet/Presentation	K3
CO4	examine the tools and techniques in GIMP, Word document, Spreadsheet and Presentation	K4
CO5	design an image using the design elements and create a report as well as presentation with proper formatting	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Topics

Photo Editing

GIMP Basics – Image Handling Basics – Working with Images - Photograph Retouching – Global Transformations – Local Transformations – Painting and Drawing - Dodging, Burning and Smudging – Selections, Overlaying and Blending Modes – Digital Collage

Textures, Logos and 2D Animation

Creating Textures - Logos - Animation – Building an Animated GIF by Hand – Using Animation Tools – Using GAP

Designing a Website

Laying Out a Website – Fixed and Variable Width Designs – Web Design Tools – Optimizing Images for the Web

Word Processing: Introduction – The Style Advantage, Outlining, - Autocorrect – Compatibility with previous versions of word –Drawing Canvas –Styles and Character/Font Formatting - Bullets and Numbering –Character Formatting –Paragraph Formatting –Styles and paragraph Formatting - Structural Formatting, paragraph Decoration- Find, Replace and GO To - Language Tools –AutoCorrect – Auto Format – Tables – Pictures and SmartArt – Headers and Footers - Symbols and Equations –Charts – Inserting Objects and Files –Blogging-Templates and Themes
Bookmarks –Tables of Contents –Footnotes and Endnotes -Citations and Bibliography - Indexing - Table of Authorities –Hyperlinks and Cross-References –Envelopes and Labels - Data Documents and Mail Merge –The Ribbon -Security, Tracking and Comments - Protection Type - Integration with other office Applications –Excel, PowerPoint

Spreadsheet

Data entry, Using formulae and functions, Formatting data, Creating charts, List, Sorting, Filtering, Working with forms, Grouping, Linking and Protecting sheets, Data validation, printing spreadsheets. Tool: MS-Excel

Presentation Tool Introduction to PowerPoint – Changing the view – Creating a good presentation - Creating and saving Presentation Files –Creating New Slides and Text Boxes

Working with Layout, Themes and Masters – Formatting Text –Formatting Paragraphs – Correcting and Improving Text - Creating and Formatting Tables- Creating SmartArt Diagrams - Importing Image Files into PowerPoint – Compressing Images – Creating a Photo Album Layout – Working with Charts

Working with External Content - Copying Content from Other Programs - Adding Sound Effects, Music and Soundtracks - Creating Animation Effects and Transitions – Creating Support Materials –Preparing for a Live Presentation –Limiting User Access to a Presentation

CANVA- Presentation Template –Tools and Features – Downloading and Sharing

PATTERN OF ASSESSMENT:

Component - 50 marks

component 1: Image Editing using GIMP

component 2: Prepare a report on a topic

All K-Levels will be assessed

No End Semester Examination

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CS/MC/ID31												
III	Course Title: IMAGE EDITING AND DOCUMENTATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	2	1	-	-	3	3	1	2	1
CO 2	3	1	1	1	2	2	-	-	3	3	1	2	1
CO 3	3	2	1	-	3	2	-	-	3	3	1	3	2
CO 4	3	2	2	-	3	3	1	-	3	3	2	3	2
CO 5	3	3	2	1	3	3	1	-	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMPUTER SCIENCE I

CODE: 23MT/AC/MS35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the concept of diagonalization through Eigen values and Eigen vectors
- To utilize various methods in solving problems related to transcendental, algebraic equations and a system of linear equations
- To acquire knowledge in numerical integration and differentiation that are used in computer applications
- To introduce simplex technique to solve linear programming problems
- To appreciate the use of appropriate mathematical concepts and skills to solve problems in real life contexts

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the various applied mathematical concepts such as matrices, vector analysis, numerical methods and linear programming problems	K1
CO2	understand the fundamentals relevant to the methods utilized in solving problems related to equations, numerical integration and vector differentiation	K2
CO3	apply appropriate mathematical techniques in solving related problems and model real time situations	K3
CO4	analyse the different methodology adapted to solve a particular problem	K4
CO5	evaluate and make inference from the solutions obtained for related problems	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Matrices 1.1 Eigen Values and Eigen Vectors of Square Matrices of Order ≤ 3 1.2 Cayley - Hamilton Theorem 1.3 Diagonalization of Matrices	K1-K5	11	CO1-5
2	Vector Analysis 2.1 Scalar and Vector Point Functions 2.2 Gradient 2.3 Divergence and Curl 2.4 Solenoidal and Irrotational Vectors 2.5 Problems using Vector Identities	K1-K5	14	CO1-5
3	Solution of Transcendental and Algebraic Equations 3.1 The Bisection Method 3.2 Newton-Raphson Method Solution of Simultaneous Equations 3.3 Gauss Elimination Method 3.4 Gauss Jordan Elimination Method	K1-K5	14	CO1-5
4	Numerical Differentiation and Integration Numerical Differentiation 4.1 Derivatives using Newton's Forward Difference Formula 4.2 Derivatives using Newton's Backward Difference Formula Numerical Integration 4.3 Trapezoidal Rule	K1-K5	12	CO1-5
5	Linear Programming Problem 5.1 Linear Programming Formulation 5.2 Graphical Method 5.3 General L.P.P. 5.4 Canonical and Standard Forms of L.P.P. 5.5 The Simplex Algorithm	K1-K5	14	CO1-5

BOOKS FOR STUDY

S Arumugam, et al., *Numerical Methods*. Chennai: Scitech, 2002, Reprint 2017.

Chapter 3 Section 3.3, 3.5

Chapter 4 Section 4.3, 4.4

Chapter 8 Sections 8.1, 8.2, 8.5 (problems related to the concepts only)

S G Venkatachalapathy, *Allied Mathematics*. Chennai: Margham Publications, 2011, Reprint 2016.

Chapter 6 Pages 6.36 - 6.57

Chapter 17 Pages 17.1-17.41[exclude proof of theorems and identities]

V Sundaresan, et al., *Resource Management Techniques*. Chennai: A.R. Publications, 2014.

Chapter 2 Section 2.1-2.8

Chapter 3 Section 3.1.1 – 3.1.4

BOOKS FOR REFERENCE

S Arumugam, S. Ramachadran, *Invitation to Graph Theory*. Chennai: Scitech Publications (India) Pvt. Ltd., Reprint, 2023.

S Kalavathy, *Operations Research*. Noida: Vikas Publishing House Pvt. Ltd., Fourth Edition 2013, Reprint 2016.

A. Rasheed Abdul, *Allied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, Reprint 2008.

S Sankarappan, et al., *Applied Mathematics*. Chennai: Vijay Nicole Imprints Private Limited, 2009.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MS35												
	Course Title: MATHEMATICS FOR COMPUTER SCIENCE I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	2	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

OPERATING SYSTEMS

CODE:23CS/MC/OS45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To recall the basic functions of an Operating System
- To understand the working principles of different Operating System components
- To identify the better scheduling strategy for different resources
- To be able to effectively use the resources of an Operating System
- To evaluate the concerns and issues in Operating System components

COURSE LEARNING OUTCOME:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the components, structure and services of Operating System	K1
CO2	explain the concepts involved in the process, threads and memory	K2
CO3	apply the acquired knowledge appropriately in Operating System Components	K3
CO4	examine the issues involved in different Operating System concepts	K4
CO5	decide the strategies to overcome the issues and challenges in Operating System Components	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction Computer System Organisation – Computer System Architecture – Operating System - Structure, Operations – Process Management – Memory Management – Storage Management -Protection and Security – Kernel Data Structures 1.2 Operating System Structures Operating System Services – System Calls – System Programs – Operating System Design and Implementation - Operating System Structure –System Boot	K1, K2	14	1, 2

UNIT	CONTENT	CL	Hrs	CO
2	2.1 Processes Process Concept – Process Scheduling – Operations on Processes – Interprocess Communication 2.2 Process Synchronisation Background – Critical-Section Problem – Peterson’s Solution – Synchronisation Hardware – Semaphores – Classic problems of Synchronisation – Monitors	K1 – K5	14	1-5
3	3.1 CPU Scheduling Basic Concepts – Scheduling Criteria – Scheduling Algorithms 3.2 Threads Overview – Multithreading models – Threading issues 3.3 Deadlocks System Model – Deadlock Characterisation – Methods for handling Deadlocks - Deadlock Prevention – Deadlock Avoidance – Deadlock Detection – Recovery from Deadlock	K1-K5 K1, K2 K1-K5	13	1-5 1, 2 1-5
4	4.1 Main Memory Background – Swapping – Contiguous Memory allocation – Paging – Structure of Page Table 4.2 Virtual Memory Background – Demand Paging – Copy on Write – Page Replacement – Thrashing	K1-K3 K1-K5	13	1-3 1-5
5	5.1 Secondary Storage Structure Overview of Mass Storage Structure – Disk Structure – Disk Attachment – Disk Management – Swap Space Management – RAID Structure 5.2 Disk Scheduling 5.3 File Management File System – File Concepts – Access Methods – Directory Structures 5.4 File System Implementation File System Structures – Allocation Methods – Free Space Management	K1-K3 K1-K5 K1-K3 K1-K3	11	1-3 1-5 1-3 1-3

BOOK FOR STUDY

Silberschatz, Abraham, Peter B. Galvin and Greg Gagne. Operating System Concepts. 10th ed. Wiley, 2018.

BOOKS FOR REFERENCE

Madnick, Stuart E., John J. Donovan. Operating Systems. McGraw Hill International Edition, 1974.

McHoes, Ann, Flynn, Ida M. Understanding Operating System. 7th Ed., Cengage Learning. 2014.

Tanenbaum, Andrew. Modern Operating Systems. 4th Ed., Prentice Hall, 2014.

WEB RESOURCES

<https://www.os-book.com/OS10/>

<https://www.coursera.org/specializations/codio-introduction-operating-systems>

<https://archive.nptel.ac.in/courses/106/105/106105214/>

PATTERN OF ASSESSMENT:

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components: Total Marks: 50

Quiz /Assignment/Seminar/Group Discussion/Problem solving/Open book test

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/OS45												
IV	Course Title: OPERATING SYSTEMS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	2	1	1	1	-	1	1	1	1	-
CO 2	3	2	2	2	2	1	1	-	1	1	2	1	-
CO 3	3	2	2	2	2	1	1	-	3	2	2	2	-
CO 4	3	3	2	2	3	3	2	-	3	3	2	3	-
CO 5	3	3	2	2	3	3	2	-	3	3	3	3	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

WEB PROGRAMMING

CODE: 23CS/MC/WP45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand web design and demonstrate the skills in creating dynamic web-pages using HTML5, CSS, JavaScript and PHP.
- To choose and apply different front-end design techniques using HTML5 and CSS
- To analyse, compare and distinguish between the web technologies
- To assess and choose websites layout, add behaviour to elements and persist data on the client-side and database.
- To implement the concepts on designing and developing a dynamic responsive website

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the concepts of web development with HTML5, CSS, JavaScript and PHP	K1
CO2	learn and design a webpage with different elements using the learnt web technologies	K2
CO3	apply the knowledge and design a webpage with different web elements	K3
CO4	explain and infer the use of HTML5, CSS, JavaScript and PHP in creating and designing interactive dynamic websites	K4
CO5	develop a dynamic responsive website with interactivity and server-side functionality	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<p>1.1 Introduction to HTML and HTML5 Introduction to Web Design - Design Principles - Working of the Web - Creating a Simple Page - Paragraphs, Headings, hr Element, Lists, More Content Elements, Organising Page Content - Inline Elements - Generic Elements - Escape Characters - href attribute - Linking Pages on the Web, Linking Within Own Site - Targeting Link to New Browser Window - Image Formats - img Element</p> <p>1.2 Tables, Forms, Media Table Structure - Table Headers - Spanning Cells - Table Accessibility - Row and Column Groups - form Element - Attributes - Controls - Form Accessibility - Embedded Media - iframe, object, embed, video, audio Elements</p>	K1-K6	11	1-5
2	<p>2.1 Introduction to CSS Benefits of CSS - How CSS Works - CSS Concepts - CSS Units - Basic Font Properties - Changing Text Color - Text Line Adjustments - Specifying Color Values - Foreground & Background Color - Pseudo-Class Selectors - Background Images</p> <p>2.2 Advanced CSS CSS Box Model - Element box, Box Dimensions, Padding, Borders, Margins, Display Types - Normal Flow - Floating - Positioning - Responsive Web Design (RWD) - Viewport - Responsive Images - Media Query - Breakpoints</p>	K1-K6	12	1-5

UNIT	CONTENT	CL	Hrs	CO
3	3.1 Introduction to JavaScript Exploring JavaScript - Variables, Operators, Variable Typing, Functions, Global and Local Variables - Document Object Model - Display Methods - Expressions - Conditionals - Looping 3.2 Exploring JavaScript JavaScript Functions - Objects - Arrays - Form Validation using DOM Constraints - Accessing CSS from JavaScript - Event Handling - Validating User Input with JavaScript, Regular Expressions 3.3 jQuery Including jQuery, Syntax, Selectors, Handling Events, ready() function, Event functions and properties - blur(), focus(), this keyword, click(), dblclick(), keypress()	K1-K6	16	1-5
4	4.1 Introduction to PHP Setting up the Development Server - PHP Within HTML - Basic Constructs 4.2 Forms, Cookies and Sessions in PHP Form Handling using PHP - GET and POST - Validating Form using PHP - Cookies - Sessions	K1-K6	13	1-5
5	5.1 MySQL with PHP MySQL Basics - Querying a MySQL Database with PHP - Practical MySQL - Creating a Table - Describing a Table - Dropping a Table - Adding Data - Retrieving Data - Updating Data - Deleting Data - Using AUTO_INCREMENT	K1-K6	13	1-5

BOOKS FOR STUDY

Jennifer Niederst Robbins, *Learning Web Design: A Beginner's Guide To HTML, CSS, Javascript, And Web Graphics*, Fifth Edition, O'Reilly Media, Inc., 2018 (Units 1 & 2)
Robin Nixon, *Learning PHP, MySQL & JavaScript: A Step-by-Step Guide to Creating Dynamic Websites*, 6th Edition, O'Reilly Media, Inc., 2021 (Units 3, 4 & 5)

BOOKS FOR REFERENCE

Ben Frain, *Responsive Web Design with HTML5 and CSS*, 4th Edition, Packt Publishing, 2022
Philip Ackermann, *JavaScript: The Comprehensive Guide*, The Rheinwerk Computing, 2022
Jon Duckett, *PHP and MySQL: Server-Side Web Development*, Wiley Inc., 2022

WEB RESOURCES

<https://html.spec.whatwg.org/multipage/>

<https://developer.mozilla.org/en-US/docs/Web/JavaScript>

<https://www.php.net/manual/en/>

<https://dev.mysql.com/doc/refman/8.0/en/>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K5 – 5		1	2
	K6 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components: Total Marks: 50

Quiz /Assignment/Seminar/Group Discussion/Open book test

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K5 – 12		1	2
	K6 - 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/WP45												
IV	Course Title: Web Programming												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	1	2	3	3	2	2	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	3	2	3	2	2	3	3	3	3	3
CO 4	2	3	2	3	3	3	3	2	3	3	2	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

OPERATING SYSTEMS PRACTICAL

CODE: 23CS/MC/P242

CREDITS: 2

L T P: 0 0 4

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To reinforce the understanding of operating system concepts by using Linux commands and system calls
- To understand the concept of process and process scheduling and user management
- To understand how virtual memory regions are used by a program
- To understand file and directory permissions
- To know how file systems are mounted and unmounted

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	tools available in Linux to monitor running processes, adjust process and priorities	K1, K2
CO2	differentiate between foreground and background processes, user time and system time taken by a program	K3
CO3	explain how file security model works in a multi user environment, virtual memory map of a program	K4
CO4	elaborate the concepts of user and storage device management	K5
CO5	discuss how a process is created and terminate a process and operations performed on files	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction Referring to man pages using command man Identify machine architecture using command uname Users and groups Create a group using groupadd command Create a user using useradd command Change the password for a user Change to different user using su command	K1-K5	3	1- 4

UNIT	CONTENT	CL	Hrs	CO
2	<p>Processes</p> <p>View the current list of processes using command ps command</p> <p>-Identify the option that will help you to see the command used to start the process</p> <p>-Identify the option that will help you to see the state of each process</p> <p>-List the various states of a Linux process</p> <p>Kill command (InterProcess Communication)</p> <p>-Number of signals that are supported in Linux</p> <p>-Forcefully terminate a process using command kill</p> <p>-Identify the signal passed to a program when Ctrl + C is pressed</p> <p>-Identify the real and effective UIDs of a process using command “\$ cat /proc/<pid>/status”</p> <p>-View the process tree using the command pstree. Trace the parent process of all processes.</p> <p>Process Scheduling</p> <p>Change the priority of a process using nice command</p> <p>-View the nice value of processes using ps command</p> <p>Write a C program to simulate stack overflow error. Control stack size using command ulimit.</p> <p>Write a C program to create a new process using a system call fork.</p>	K1 - K6	14	1-5
3	<p>Memory management</p> <p>Study the given C program. Identify the virtual memory regions used by the program.</p> <p>Find the shared library dependencies of an executable using command ldd</p> <p>Time</p> <p>Determine the amount of time taken by a program using command time.</p> <p>Difference between real time, user time and system time</p> <p>Files and Directories</p> <p>List the files in the current directory using command ls</p> <p>Print the current working directory using command pwd</p> <p>Create a directory using command mkdir</p> <p>Change to the given directory using command cd</p> <p>Remove a file using command rm</p> <p>Remove a directory using command rmdir</p> <p>Copy a file using command cp</p> <p>Move a file using command mv</p> <p>Identify the attributes of a file using command stat</p> <p>Change the ownership of a file using command chown</p> <p>Change file permissions using command chmod</p>	K1-K6	14	1-5

UNIT	CONTENT	CL	Hrs	CO
	Using the shell built-in umask to control the permissions of a new file			
4	Shell Identify user's shell using the command “echo \$SHELL” Write a C program to display the environment variables available to it. Push a foreground process to the background View the list of processes started from prompt using command jobs Bring a background process to the foreground System Calls Inspect the system calls made by a program using command strace Using command “man syscalls”, check the list of system calls supported by Linux. Write a C program named copy.c that uses the system calls open, read, write, and close to copy a file to another file.	K1- K6	14	1-5
5	Interprocess Communication Feed the output of a program as input to another program using a pipe Ex: “\$ ls wc -l” File Systems View the file systems currently mounted using command mount Mount a file system using command mount Unmount a file system using command umount Examine the file /etc/fstab. Identify the role of the entries in this file	K1-K5	7	1-4

BOOKS FOR REFERENCE

Kerrisk, Michael. The Linux Programming interface A Linux and UNIX System Programming Handbook
Sumitabha Das. UNIX Concepts and Applications, Fourth Edition
Shotts, William. *The Linux command line: a complete introduction*. No Starch Press, 2019.
Garrels, M. "Introduction to Linux A Hands on Guide,” published under the terms of the Linux documentation project, 2008."
Fox, Richard. *Linux with operating system concepts*. CRC Press, 2021.

WEB RESOURCE

Cobbaut, Paul. "Linux Fundamentals." <https://linux-training.be/linuxfun.pdf>”.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

CRITERION	Knowledge Level	Marks
Write commands / Program	K1	5
Record Notebook, Viva	K2	10
Implementation	K3, K4	25
Result and Output	K5, K6	10
	Total	50

Other Components: Total Marks: 50

Case study/ Practical/ Mini Project

End Semester Examination: Total Marks: 100 Duration: 3 Hours

CRITERION	Knowledge Level	Marks
Write commands / Program	K1	10
Record Notebook, Viva	K2	20
Implementation	K3, K4	50
Actual and Expected Output Comparison and result	K5, K6	20
	Total	100

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CS/MC/P242												
IV	Course Title: Operating System Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	1	3	3	1	-	3	3	2	3	2
CO 2	3	3	2	1	3	3	1	-	3	3	2	3	2
CO 3	3	3	2	1	3	3	1	-	3	3	2	3	2
CO 4	3	3	2	1	3	3	2	-	3	3	2	3	2
CO 5	3	3	2	1	3	3	2	-	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATION

SYLLABUS

(Effective from the academic year 2023–2024)

WEB PROGRAMMING PRACTICAL

CODE: 23CS/MC/P342

CREDITS: 2

L T P: 0 0 4

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand the principles of effective web page designing and learn the same with HTML5 and CSS
- To create interactive web pages using JavaScript
- To learn how to design webpages for multiple devices
- To build server-side programming using PHP
- To enable the creation and manipulation of databases with MySQL and PHP

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the web designing principles and concepts of web technology	K1, K2
CO2	apply the principles and techniques to design an interactive web page	K3
CO3	analyse the client side and server side programming language used to create the web application	K4
CO4	evaluate the responsiveness of web application in multiple devices	K5
CO5	create a web application using HTML5, CSS, JavaScript and PHP with MySQL	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

List of exercises	CL	Hrs	CO
HTML5 and CSS <ol style="list-style-type: none"> Using HTML features - standard tags, fonts, headings, paragraphs, formatting, list, anchor tags, image linking and multimedia Designing a web page with focus on tables and layers Designing a web page with focus on forms and hands-on experience on different page layouts, web pages with interactivity Exercises on semantic tags, navigations, CSS Exercise a building a Multilingual Web page Exercise on RWD using Gridview and mediaqueries 	K1-K6	52	1-5
JavaScript <ol style="list-style-type: none"> Programs using operators and control statements Implementing text, number, date and email id validations using DOM constraint API Exercises on events Using arrays Processing inputs and displaying messages incorporating system time Programs implementing JavaScript objects Programs to handle exceptions 			
PHP and MySQL <ol style="list-style-type: none"> Using PHP functions, operators and arrays Implementing get and post methods Using PHP scripts and database - store, retrieve, update and search Using cookies and session 			

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

CRITERION	Knowledge Level	Marks
Pseudo Code/ Algorithm/ Commands	K1	5
Record Notebook, Viva	K2	10
Implementation/ Execution	K3, K4	25
Result and Output	K5, K6	10
	Total	50

Other Components: Total Marks: 50

Case study/ Practical/ Mini Project

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

CRITERION	Knowledge Level	Marks
Pseudo Code/ Algorithm/Program writing	K1	10
Record Notebook, Viva	K2	20
Implementation/ Execution	K3, K4	50
Actual and Expected Output Comparison and result	K5, K6	20
	Total	100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/P342												
IV	Course Title: WEB PROGRAMMING PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	1	2	3	3	2	2	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	3	2	3	2	2	3	3	3	3	3
CO 4	2	3	2	3	3	3	3	2	3	3	2	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Allied Core Course offered by the Department of Mathematics for
B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MATHEMATICS FOR COMPUTER SCIENCE II

CODE: 23MT/AC/MS45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the fundamental concepts of discrete and continuous probability distributions
- To perform hypothesis tests and make inferences about population parameters based on sample data
- To determine whether there is a statistically significant association or relationship between two categorical variables by conducting a Chi-Square test of independence
- To analyze the relationships between variables using correlation and regression analysis, and make predictions based on regression models
- To assess significant differences between means using Analysis of Variance

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define and recall the basic statistical tools and techniques available to study any given data	K1
CO2	understand the core principles and terminology of statistics, including population, sample and distribution functions	K2
CO3	apply the knowledge and extract meaningful insights and patterns from data, enabling informed decision-making	K3
CO4	examine and interpret data through rigorous statistical methods and techniques	K4
CO5	develop problem-solving skills by using statistical methods to address complex and multifaceted issues in real life	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Theoretical Distributions 1.1 Binomial Distribution 1.2 Properties of Binomial Distribution 1.3 Fitting of Binomial Distribution 1.4 Normal Distribution 1.5 Characteristics of the Normal Curve	K1-K5	13	CO1-5

UNIT	CONTENT	CL	Hrs	CO
2	Tests of Significance 2.1 Testing of Hypothesis 2.2 Tests of Significance for Attributes 2.3 Tests of Significance for Large Samples 2.4 Tests of Significance for Difference between Means of two Samples	K1-K5	15	CO1-5
3	Chi-Square Test 3.1 Characteristics and Assumptions 3.2 Goodness of Fit 3.3 Test of Independence	K1-K5	12	CO1-5
4	Correlation and Regression 4.1 Correlation and Causation 4.2 Types of Correlation 4.3 Karl Pearson's Coefficient of Correlation 4.4 Correlation of Grouped Bi-variate Data 4.5 Regression 4.6 Difference between Correlation and Regression 4.7 Methods of Studying Regression – Algebraic Method	K1-K5	13	CO1-5
5	Analysis of Variance 5.1 Basic Designs of Experiment 5.2 One Way Classification 5.3 Two Way Classification	K1-K5	12	CO1-5

BOOKS FOR STUDY

R. S. N. Pillai, and Bagavathi, *Statistics – Theory and Practice*. 7th Revised Edition, New Delhi: S. Chand & Company Limited, 2012.

Chapter 19 Pages 769 – 781, 787 - 800

Chapter 20 Pages 812 – 831

Chapter 21 Pages 847 – 854

Chapter 12 Pages 396 – 410

Chapter 13 Pages 465 – 470 (exclude graphic method)

A Chandrasekaran, et al. *A Textbook of Applied Statistics*, 1st edition, Chennai: Dhanam Publications, 2019.

Chapter 4 Pages 4.1 – 4.36

BOOKS FOR REFERENCE

Y. P Agarwal, *Statistical Methods, Concepts, Applications and Computations*. New Delhi: Sterling, 2006.

S. P. Gupta, *Statistical Methods*. New Delhi: Sultan Chand, 2007.

R.S.N. Pillai, Bagavathi, *Practical Statistics*. Second Edition. New Delhi: S.Chand & Co. Ltd. 2003.

D.C. Sancheti and Kapoor V. K., *Statistics: Theory, Methods & Application.*, New Delhi: S. Chand & Company Ltd, 2014.

T. Veerarajan, *Fundamentals of Mathematical Statistics*. Chennai: Yes Dee Publishing Pvt. Ltd. 2017.

P. R. Vittal, *Mathematical Statistics*. Chennai: Margham Publications Pvt. Ltd., 2002.

WEB RESOURCES

http://onlinestatbook.com/Online_Statistics_Education.pdf

<https://statisticsbyjim.com/basics/normal-distribution/>

www.amstat.org/

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC374386/>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	6	$3 \times 2 = 6$ (4 questions to be set)
B	K2	4	$4 \times 1 = 4$ (4 MCQ to be set)
C	K3	15	$1 \times 15 = 15$ (2 questions to be set)
D	K4	15	$1 \times 15 = 15$ (2 questions to be set)
E	K5	10	$1 \times 10 = 10$ (2 questions to be set)

Other Components:

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (6 questions to be set)
B	K2	10	$10 \times 1 = 10$ (10 MCQ to be set)
C	K3	30	$2 \times 15 = 30$ (4 questions to be set)
D	K4	30	$2 \times 15 = 30$ (4 questions to be set)
E	K5	20	$2 \times 10 = 20$ (4 questions to be set)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23MT/AC/MS45												
	Course Title: MATHEMATICS FOR COMPUTER SCIENCE II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	1	1	3	3	2	3	3
CO 2	3	3	3	3	2	2	1	1	3	3	2	3	3
CO 3	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 4	3	3	3	3	3	3	1	1	3	3	2	3	3
CO 5	3	3	3	3	3	3	1	1	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

COMPUTER NETWORKS

CODE:23CS/MC/CN55

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the division of network functionalities into layers.
- To be familiar with the components required to build different types of networks.
- To be exposed to the required functionality at each layer.
- To learn the flow control and congestion control algorithms.
- To introduce the latest networking technologies.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the network types and the protocol layers.	K1
CO2	infer the TCP/IP protocol layers in detail.	K2
CO3	identify the flow control, error control and address spaces.	K3
CO4	analyse the services provided in various layers.	K4
CO5	estimate the cyclic redundancy check, checksum, Network address translation for various IPV6 address and wireless network standards.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction Data Communication– Networks – Network Types – Internet History – Standard and Administration	K1, K2	10	1,2
	1.2 Network Models Protocol Layering – TCP/IP Protocol Suite – The OSI Model	K1-K3		1-3
2	2.1 Physical Layer Data and Signals - Digital Signals – Performance Transmission Modes - Multiplexing - Transmission Media - Switching – Packet and Circuit switching	K1-K4	13	1-4
3	3.1 Data Link Layer Data Link Control – Framing - Fixed Size Framing, Variable size framing, Flow and Error Control, Data Link Layer protocols, Cyclic Codes, Cyclic Redundancy Check, Checksum 3.2 MAC and Ethernet Random Access, Controlled Access, Ethernet Protocol	K1-K5	15	1-5

4	4.1 Network Layer Logical Addressing - IPv4 Addresses, Addressing, Network Address Translation IPv6 Addresses – Structure, Address Space 4.2 Transport Layer Transport Layer Services Connectionless and Connection-Oriented Protocols	K1-K5	15	1-5
5	5.1 Application layer Domain Naming System – DNS Name Space, Distribution of name space, DNS in the Internet, Resolution, DNS messages, Remote logging, Email, File transfer 5.2 Wireless Networking Components of Wireless Communication System, Wireless Networking Standards - Bluetooth Technology Other Wireless Technologies	K1-K5	12	1-5

BOOKS FOR STUDY

Forouzan, A. Behrouz. *Data communications & networking*. Tata McGraw-Hill Education, 2012.

Tanenbaum, Andrew S., and Maarten Van Steen. *Distributed systems: principles and paradigms*. Prentice-Hall, 2007. [Unit V – Chapter 1 & 2]

BOOKS FOR REFERENCE

Bonaventure, Olivier. *Computer Networking: Principles. Protocols and Practice*. 2018.

Qureshi, A. Anique, Levine, H. Marc, Shim, K.Jae. *The international handbook of computer networks*. Global Professional Publishing, 2004.

Tanenbaum, Andrew S. *Computer Networks*. 5th ed. Pearson publication, 2011.

WEB RESOURCES

<https://www.ibm.com/docs/en/aix/7.2?topic=protocol-tcpip-protocols>

<https://docs.oracle.com/cd/E19455-01/806-0916/ipov-10/index.html>

<https://www.britannica.com/technology/long-term-evolution>

<https://www.bluetooth.com/learn-about-bluetooth/tech-overview/>

<https://www.technology.pitt.edu/help-desk/how-to-documents/wireless-network-standard>

PATTERN OF ASSESSMENT:**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 – 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:**Total Marks: 50**

Quiz /Assignment/Seminar/Group Discussion/Problem solving

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/CN55												
V	Course Title: COMPUTER NETWORKS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	2	1	1	1	-	1	1	1	1	-
CO 2	3	2	2	2	2	1	1	-	1	1	2	1	-
CO 3	3	2	2	2	2	2	1	-	3	2	2	2	-
CO 4	3	3	3	2	3	3	2	-	3	3	2	3	-
CO 5	3	3	3	2	3	3	2	-	3	3	3	3	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

ESSENTIALS OF DATA SCIENCE

CODE:23CS/MC/DS54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable the students to understand the basics of python language
- To enable a comprehensive and detailed understanding of the data science, data formats and data exploratory analysis
- To apply machine learning techniques
- To analyze various visualizations techniques in python
- To explore the various applications of data science

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamentals of data science and python	K1
CO2	explain the data science process	K2
CO3	identify machine learning techniques and derive inferences from data	K3
CO4	examine various machine learning techniques for problems	K4
CO5	evaluate and select optimal machine learning model based on metrics	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Python language Basics The Python Interpreter-IPython basics- Python Language Basics 1.2 Built-in Data Structures Functions and Files Data Structure and Sequences-Functions-Files 1.3 NumPy Basics Arrays and Vectorized Computation The NumPy ndarray: A Multidimensional Array Object -Universal Functions	K1-K6	10	1-5
2	2.1 Introduction of Data Science and Data pipeline Data Science -Data Science Process- Data Loading, Storage and File Formats – Reading and Writing Data in Text Format-Binary Data Formats-Interacting with Web API-Interacting with Databases 2.2 Visualization Matplotlib – Simple Line Plots-Simple Scatter Plots-Visualizing Errors-Density and Contour Plots-Histogram, Binnings and Density -Customizing Color Bars Customizing Plot Legends - Multiple Subplots-Text and Annotation-Customizing Ticks	K1-K3 K1-K6	15	1-3 1-5

3	3.1 Data Cleaning and Preparation Handling Missing Data-Data Transformation-String Manipulation 3.2 Data Wrangling Join, Combine and Reshape Hierarchical Indexing – Combining and Merging Datasets-Reshaping and Pivoting Getting Started with Pandas-Introduction to Pandas Data Structures- Essential Functionality.	K1-K6	15	1-5
4	4.1 Machine Learning Introduction to Machine Learning- Need for Machine Learning 4.2 Supervised Learning Classifications and Regression-Generalization-Overfitting-Underfitting- Supervised Machine Learning Algorithms-K-Nearest Neighbor-Linear Models-Naïve Bayes Classifiers-Decision Tree-Ensemble of Decision Trees 4.3 Unsupervised Learning Types of Unsupervised Learning -Dimensionality Reduction, Feature Extraction Clustering- Model Evaluation and Improvement- Cross Validation- Grid Search - Evaluation metrics and Scoring- Using evaluation metrics in model selection	K1-K6	15	1-5
5	5.1 Natural Language Processing (NLP) Language Processing – Texts and Words- Accessing Text Corpora-Lexical Resources – Wordnet- Normalizing the Text-Tokenizing the Text- Segmentation- Using a Tagger – Tagging-Automatic and Ngram- Transformation Based Tagging – Classifying the Text	K1-K6	10	1-5

BOOKS FOR STUDY

Wes McKinney. Python for Data Analysis. Gravenstein Highway North, Sebastopol: O'Reilly Media, Inc., 2022. Third Edition. (Unit 1: Chapter 2, 3, 4, Unit 2: Chapter 5,6,7,8)

Alberto Boschetti. Luca Masaaron. Python Data Science Essentials. UK: Packt Publishing Ltd, 2016. (Unit 4: Chapter 5)

Andreas C. Mueller. Sarah Guido. Introduction to Machine Learning with Python. USA: O'Reilly Media, Inc. ,2016. (Unit 3: Chapter1: Introduction to Machine Learning, Chapter 2, Chapter 3)

Wagner, Wiebke. "Steven bird, Ewan Klein and Edward Loper: Natural language processing with python, analyzing text with the natural language toolkit: O'Reilly media, Beijing, 2009, ISBN 978-0-596-51649-9." (2010): 421-424.(Unit 5)

BOOKS FOR REFERENCE

Aurélien Géron. Hands-On Machine Learning with Scikit-Learn and Tensor Flow: Concepts, Tools, and Techniques to Build Intelligent Systems. USA: O'Reilly Media, 2019.

Brian K. Jones. David Beazley. Python Cookbook. USA: O'Reilly Media, Incorporated, 2013.

WEB RESOURCES

<https://nptel.ac.in/courses/106106179>

<https://www.udemy.com/course/data-science-fundamentals->

<https://www.coursera.org/specializations/data-science-fundamentals>

<https://www.guvi.in/zen-class/data-science-course>

PATTERN OF ASSESSMENT:**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K5 – 5		1	2
	K6 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:**Total Marks: 50**

Quiz /Assignment/Seminar/Group Discussion/Problem solving/Algorithm Tracing

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K5 – 12		1	2
	K6 - 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/DS54												
V	Course Title: DATA SCIENCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	1	1	1	1	-	1	1	1	1	1
CO 2	3	2	2	1	2	2	1	-	1	2	2	1	1
CO 3	3	2	3	1	2	2	2	-	2	2	3	2	1
CO 4	3	2	3	2	3	3	2	-	2	3	3	2	2
CO 5	3	3	3	2	3	3	2	-	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

FUNCTIONAL WEB DEVELOPMENT

CODE:23CS/MC/FW54

CREDITS: 4

L T P: 3 0 2

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide awareness about ReactJS and keep updated yourself with latest trends
- To understand functional programming
- To manage data by using State and Props of React
- To create smaller components to build Interactive User interfaces
- To understand about React and how it fits into your web application developing process

COURSE LEARNING OUTCOMES

COs	DESCRIPTION	CL
CO1	define the fundamental concepts of functional programming and React	K1
CO2	explain the importance of react components	K2
CO3	build web pages using functional programming and React concepts	K3
CO4	examine the performance of web applications developed using React	K4
CO5	develop web applications with client and server-side operations in JavaScript using React	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction to Functional Programming Definition - Benefits of functional programming in web development - Introduction to pure functions and immutability - Functional programming paradigms and principles 1.2 JavaScript Fundamentals for Functional Programming Review of JavaScript basics - Functions as first-class citizens - Higher-order functions and callbacks - Arrow functions and lexical scoping	K1-K3	12	1-3
2	2.1 Working with Arrays Transforming arrays with map, filter, and reduce - Composing functions - Dealing with nested arrays - Functional programming with arrays in web development 2.2 Functional Asynchronous Programming Asynchronous JavaScript with Promises- Chaining and error handling in Promises - Using async/await for asynchronous operations - Functional approaches to handling asynchronous code	K1-K3	12	1-3
3	3.1 Introduction to React Introduction to React and its significance - Setting up a development environment - Creating and rendering React components - Incorporating JSX with Babel 3.2 Component Development Understanding the component lifecycle - Developing functional and class components – Using props: Passing data, Validating props, creating custom validators, default props - Handling events and user interactions	K1-K6	16	1-5
4	4.1 State Management and Hooks Managing component state - Introduction to React Hooks - useState, useEffect - Implementing custom hooks for component logic - Applying hooks for functional component development	K1-K6	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	4.2 State Management with Redux (or Context API) Introduction to Redux (or Context API) - Actions, reducers, and the store - Connecting Redux to a React application - Managing application state with Redux			
5	5.1 Forms and User Input Handling user input and form data in React- Building controlled and uncontrolled form components- Validating form data and implementing custom validation logic 5.2 CRUD Operations	K1-K6	13	1-5

BOOKS FOR STUDY

Atencio, Luis. "Functional Programming in JavaScript: How to improve your JavaScript programs using functional techniques". Simon and Schuster, 2016

Banks, Alex, and Eve Porcello. "Learning React: Functional Web Development with React and Redux". O'Reilly Media, Inc., 2017

Garreau, Marc. "Redux in action". Simon and Schuster, 2018.

BOOKS FOR REFERENCE

Haverbeke, Marijn. "Eloquent javascript: A modern introduction to programming". No Starch Press, 2018.

Anthony, Accomazzo, Murray Nathaniel, and Lerner Ari. "Fullstack React: The Complete Guide to ReactJS and Friends". 2017.

WEB RESOURCES

<https://react.dev/reference/react>

<https://react.dev/learn>

<https://pll.harvard.edu/course/design-principles-react>

PRACTICAL EXERCISES

- Implementing basic JavaScript
- Implementing Emerging JavaScript (Let, Const, Arrow Functions, Import and Export, Classes)
- Implementing Functions, Recursion
- Implementing Component Life Cycle
- Implementing Components, Props
- Implementing State Management
- Implementing Forms
- Implementing Redux
- Implementing CRUD operations

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Theory :

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (5)	$1 \times 10 = 10$	5	5
	K2 (5)		5	5
B (Internal Choice)	K2 (5)	$3 \times 5 = 15$	1	2
	K3 (5)		1	2
	K4 (5)		1	2
	Total	25	13	16

Practical:

Total Marks: 25

Duration: 45 minutes

Knowledge Level	Marks
K5	15
K6	10
Total	25

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Theory:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (6)	$10 \times 1 = 10$	6	6
	K2 (4)		4	4
B	K1 (4)	$5 \times 2 = 10$	2	2
	K2 (6)		3	3
C (Internal Choice)	K1 (5)	$6 \times 5 = 30$	1	2
	K2 (5)		1	2
	K3 (10)		2	4
	K4 (10)		2	4
	Total	50	21	27

Project - 50 marks (Demonstration and Viva)

Rubrics for Evaluation	Marks	Cognitive Level
Web Application Front-end Design	15	K1-K6
Implementation with Database connection	15	K1-K6
Execution of the Project and Viva	20	K1-K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/FW54												
V	Course Title: FUNCTIONAL WEB PROGRAMMING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	1	-	3	1	2	-	-	1	1	1	1	1
CO 2	1	1	-	3	2	2	-	-	2	2	2	2	1
CO 3	2	2	-	3	2	3	-	-	2	2	3	2	1
CO 4	3	3	1	3	3	3	-	-	3	3	3	3	1
CO 5	3	3	1	3	3	3	-	-	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

ESSENTIALS OF DATA SCIENCE PRACTICAL

CODE:23CS/MC/P452

CREDITS: 2

L T P: 0 0 3

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable the students to understand the basics of python language
- To enable a comprehensive and detailed understanding of the data science, data formats and data exploratory analysis
- To explore different machine learning techniques
- To explore different visualizations techniques in python
- To develop a new application based on python

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamentals of python language	K1
CO2	interpret the use of data after acquisition, cleansing, analytics, and visualization	K2
CO3	identify machine learning techniques and derive inferences from data	K3
CO4	examine the machine learning algorithms to manage, explore, and deep understanding of data	K4
CO5	design and construct a novel solution for a scenario/application	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

LIST OF EXERCISES	CL	Hrs	CO
1. Basic python programs 2. The installation of python packages - Scikit-learn toy datasets 3. Loading the datasets of different formats and dataset creation. 4. Cleaning and pre-processing datasets 5. Missing data substitution 6. Data transformation 7. Data wrangling: Splitting large datasets and combining datasets 8. Indexing and pivoting 9. Machine learning: Supervised Learning algorithms 10. K-nearest neighbor 11. Linear model 12. Naïve bayes 13. Decision tree 14. Random forest 15. Unsupervised learning algorithms 16. Natural language processing (NLP) 17. Clustering: k-means, agglomerative and dbscan clustering 18. Model evaluation 19. Visualization with different plots 20. Applications: case study	K1-K6	39	1-5

PATTERN OF ASSESSMENT:**Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes**

CRITERION	Knowledge Level	Marks
Psuedo Code/ Algorithm	K1	5
Record Notebook, Viva	K2	10
Implementation	K3, K4	25
Result and Output	K5, K6	10
	Total	50

Other Components: Total Marks: 50

Case study/ Practical/ Mini Project

End Semester Examination: Total Marks: 100 Duration: 3 Hours

CRITERION	Knowledge Level	Marks
Psuedo Code/ Algorithm/Program writing	K1	10
Record Notebook, Viva	K2	20
Implementation	K3, K4	50
Actual and Expected Output Comparison and result	K5, K6	20
	Total	100

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/P452												
V	Course Title: DATA SCIENCE PRACTICAL												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	1	2	1	1	2	1	-	1	1	1	1	1
CO 2	2	2	2	1	2	2	1	-	1	2	2	2	1
CO 3	3	2	3	2	3	2	1	-	2	2	3	2	1
CO 4	3	3	3	2	3	3	2	-	3	3	3	3	2
CO 5	3	3	3	2	3	3	2	-	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

CRITICAL ANALYSIS ON AN ADVANCED TECHNOLOGY

CODE:23CS/MC/CA51

CREDITS:1

L T P:0 0 2

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To allow students to explore and critically analyse the selected technology
- To provide an opportunity for students to learn about the changes in the technological landscape
- To enable students with the skills and knowledge of the process of writing
- To equip students with skills to synthesise new ideas and present them clearly and firmly, both orally and in writing
- To train students to work with academic integrity and to work in groups

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the core concepts of the chosen technology	K1
CO2	demonstrate and infer clear, precise ideas on the technology	K2
CO3	identify the significance, bias and applications of the technology	K3
CO4	critically analyse, argue and counter argue on the chosen technology	K4
CO5	formulate new ideas, opinions and create clear, grammatically correct, ethically sound, well-organised piece of writing	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Students will be formed into groups. The groups will have to select a topic related to the Emerging /Advanced Trends and Technologies in the field of Computer Science. Each group has to give three presentations to their fellow classmates and their guide. They need to prepare the synopsis and detailed report in consultation with their guide.

Workshop on Report Writing

PATTERN OF ASSESSMENT

Component - 50 marks

Component I - Presentation / Review (Includes continuous evaluation of 3 presentations)

Component II – Final Paper / Final Project

End-Semester Examination

Total Marks: 100

Rubrics for Evaluation	Marks	Cognitive Level
Documentation	30	K1, K2
Paper/Project	30	K1-K6
Presentation	20	K1-K6
Viva	20	K1-K6

Format of the Report

Abstract

Short description of the paper. Describe what the technology is, why it is significant or interesting, and your conclusion.

- Introduction
 - What is technology?
 - What is the significance of the technology?
 - How do you plan to use the technology?
- Literature Review
 - What is the current thinking, findings, and approaches on the technology?
- Methods/ Approaches
 - What is your opinion of the utility, relevance, challenges or quality of the technology you have selected? (Support with project/papers)
- Conclusion
 - What are your conclusions?
 - What do your conclusions mean?
 - How do your results fit into a broader context?

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/CA51												
V	Course Title: Critical Analysis on an Advanced Technology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	1	1	3	3	2	3	2
CO 2	3	2	2	3	3	2	1	1	3	3	2	3	2
CO 3	3	3	3	3	3	2	3	2	3	3	3	3	2
CO 4	3	3	2	3	3	2	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	2	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

HUMAN COMPUTER INTERACTION

CODE: 23ID/IC/HC55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand constraints, get an insight into the design space, and on deep knowledge of the materials of the design, that is, the user, the task, and the machine.
- To analyze the design technologies for individuals and persons with disabilities.
- To examine the psychological attributes of the user, provide the students with a basic overview of the capabilities and limitations that affect the ability to use computer systems in terms of developing interactions.
- To understand constraints and get insights on the design space with interactive design basics
- To evaluate modelling interactions through descriptive modelling methods and technologies

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamentals of HCI and interactive design concepts	K1
CO2	classify various types of interaction, user models and psychological factors	K2
CO3	apply design rules, user centered approaches and psychological factors to interaction design	K3
CO4	analyse physical designs, Participant observation and modelling interaction with relevance to user feedback system.	K4
CO5	evaluate expressive interfaces and computer-mediated communication	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<p>1.1 Introduction to Interaction Design Introduction-Good and poor design-What is Interaction Design? -What is involved in the process of Interaction Design? -The goals of interaction design-More on usability: Design and usability principles</p> <p>1.2 The Human Understanding the human mind- computation: connectionism and symbol systems. Levels of information processing. Memory- Atkinson and Shrifin model; structure of the working memory</p> <p>1.3 The Computer Devices – Memory – Processing and Networks</p> <p>1.4 Interaction Models Frameworks – Ergonomics: Bias - Arrangement of controls and displays, physical environment of interaction, health issues, use of colours, and ergonomics and HCI. – Styles – Elements – Interactivity -Experience, engagement and fun understanding and designing experience and physical design & engagement</p>	<p>K1 –K4</p> <p>K1 –K4</p> <p>K1 –K3</p> <p>K1 –K4</p>	<p>15</p> <p>1-3</p> <p>1-3</p> <p>1-3</p>	<p>1-4</p> <p>1-3</p> <p>1-3</p> <p>1-3</p>
2	<p>2.1 Understanding Users Cognition- Attention: visual and auditory attention. Parallel processing. Perception perceptual grouping- figure and ground, similarity, proximity, continuity, symmetry, closure</p> <p>2.2 Designing for collaboration and communication Introduction- Social mechanisms used in communication and Collaboration Ethnographic studies of collaboration and Communication-Conceptual frameworks</p> <p>2.3 Understanding how interfaces affect users Introduction- What are affective aspects? - Expressive Interfaces-User Frustration- Virtual characters: agents</p>	K1-K4	12	1-4
3	<p>3.1. Types of Users Visualizers and verbalizers. High and low OSL. Variety and Novelty Seekers. Need for cognition. Designing for special populations- children, the elderly and the disabled</p> <p>3.2 Observing users Introduction-Goals, questions and Paradigms-What and when to observe -How to observe- Participant observation and Ethnography-Data collection- Indirect observation tracking users' activities- Analyzing, interpreting and presenting data</p> <p>3.3. Asking users and experts Introduction -Asking users: Interviews- Asking users: Questionnaires- Asking users: Inspections- Asking users: Walkthroughs</p>	K1-K4	15	1-4
4	4.1. Interactive Design Basics	K1-K5	18	1-5

UNIT	CONTENT	CL	Hrs	CO
	Process – Scenarios – Navigation – Screen Design – Iteration and Prototyping 4.2. HCI in Software Process Software Life Cycle – Usability Engineering – Prototyping in Practice – Design Rationale 4.3. Design Rules Principles, Standards, Guidelines, Rules -Universal Design- User centered approaches to interaction design			
5	5.1 Modelling Interaction Descriptive models- Predictive model- A model continuum model 5.2 Groupware Introduction-Groupware Systems-Computer-mediated Communication-Meeting and decision support systems- Shared applications and artifacts-Frameworks for groupware- Implementing synchronous groupware 5.3 Ubiquitous computing and augmented realities Introduction-Ubiquitous computing applications research- Virtual and augmented reality-Information and data visualization 5.4. Hypertext, multimedia and the World Wide Web Introduction-Understanding hypertext- Finding Things-Web technology and issues - Static web content-Dynamic web content	K1-K5	18	1-5

BOOKS FOR STUDY

Dix Alan, Finlay Janet, Abowd Gregory, Beale Russell. Human Computer Interaction, 3rd Edition, Pearson Education, 2004 (Unit 1(Chap1,2,3), Unit 4(Chap 5,6,7,10), Unit 5(Chap 19,20,21))

MacKenzie, I. Scott. Human-computer interaction: An empirical research perspective. Newnes, 2013. Elsevier. (Unit 5(Chap 7).

Preece Jenny. Rogers Yvonne. Interaction design beyond human-computer interaction, John Wiley & Sons, 3rd Edition 2011 (Unit 1(Chap1), Unit 2(Chap 3,4,5), Unit 3(Chap12,13), Unit 4(Chap 9))

BOOKS FOR REFERENCE

Cooper Alan. Riemann Robert. Cronin David. Essentials of Interaction Design, Wiley India Hourcade, J. P. (2014). Interaction Design and Children. Now Publishers.

O. Galitz, Wilbert. The Essential Guide to User Interface Design. Wiley India, 3rd Edition Pullin, G. (2011). Design Meets Disability. Cambridge, MA: MIT Press.

Rogers Preece. Sharps. Interaction Design. Wiley India, 5th Edition.

Schiffman, Leon G, Wisenblitt, Joseph, Kuman S Ramesh. Consumer behaviour. Chennai. Pearson Education, Inc. 2018.

Sears, A., & Jacko, Julie. A (2012) The Human- Computer Interaction Handbook, New York. Taylor and Francis Group.

Sears, A., & Jacko, Julie. A (2009) The Human- Computer Interaction- Interaction Designs and Usability, Boca Raton, FL: CRC Press.

Shneidermann Ben. Designing the user interfaces, Pearson Education Asia, 3rd Edition.

WEB RESOURCES

<http://www.hcibook.com/e3/online/>

http://teaching.paulos.net/cs160_FL2018/syllabus.html

<http://www.it.bton.ac.uk/staff/rng/teaching/CS221/CS221syllabus.html>

<https://course.ccs.neu.edu/is4300f15/schedule.htm>

[https://graphics.tu-bs.de/teaching/ss17/AHCICASE STUDY](https://graphics.tu-bs.de/teaching/ss17/AHCICASE%20STUDY)

<http://reports-archive.adm.cs.cmu.edu/anon/2000/CMU-CS-00-132.pdf>

PATTERN OF ASSESSMENT:

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A(Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:

Total Marks: 50

Quiz /Assignment/Seminar/Group Discussion/Problem solving/Algorithm Tracing

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/HC55												
V	Course Title: HUMAN COMPUTER INTERACTION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	2	1	1	1	-	1	1	1	1	1
CO 2	3	2	2	2	2	1	1	-	1	1	2	1	1
CO 3	3	2	2	2	2	1	1	-	3	2	2	2	2
CO 4	3	3	2	2	3	3	2	1	3	3	2	3	2
CO 5	3	3	2	2	3	3	2	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

SECURITY CONCEPTS

CODE: 23CS/MC/SC65

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To comprehend the basic terminologies in computer security including the CIA triad
- To understand how information is secured using cryptography tools
- To identify the proper authentication methods and access control mechanism
- To become familiar with various types of malware and attacks
- To introduce basic hardening tricks and internet security protocols

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic terminologies, design principles, basic hardening in computer security and the CIA triad	K1
CO2	explain various encryption techniques, malicious software, attacks, internet security protocols	K2
CO3	choose appropriate cipher techniques and authentication mechanism for securing the resources	K3
CO4	examine authentication , access control mechanism and firewalls implemented in an organization	K4
CO5	evaluate cryptographic tools, firewall rules, causes and consequences of the buffer overflow attack	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Computer security basics CIA triad - authenticity - accountability – system resource - vulnerability – assets of a computer system – active and passive attacks – attacks and threat consequences – FIPS 200 minimum security requirements – security design principles: fail-safe default, open design, least privilege, isolation, layering – attack surfaces	K1-K5	12	1-5

UNIT	CONTENT	CL	Hrs	CO
	1.2 Securing information – I Cryptography - symmetric encryption - symmetric cipher model- substitution techniques: Caesar cipher, Playfair cipher - transposition techniques – steganography			
2	2.1 Securing information – II Comparison of DES, 3DES, AES – one-way hashing functions – hash function requirements – public key encryption – digital signatures – public key certificates 2.2 User Authentication Password based authentication and its vulnerabilities – hashed passwords – token based authentication, memory cards and smart cards – biometric authentication	K1- K5	14	1-5
3	3.1 Access control Difference between authentication and authorization – audit – elements of access control: subjects, objects and access rights – access control lists – traditional UNIX file access control – role based access control 3.2 Malicious Software Malware – virus – worms – trojan horse – spyware – phishing - spammers – backdoors 3.3 Attacks SQL injection attacks - denial of service attacks	K1-K4	14	1-4
4	4.1 Buffer Overflow Buffer overflow – an example program in C - stack smashing – function call mechanism – stack buffer overflow example in C 4.1 Firewalls Need for firewalls – firewall design goals – characteristics used to filter traffic – capabilities and limitations of a firewall – packet filtering firewall – personal firewall – DMZ networks – virtual private networks	K1- K5	15	1-5
5	5.1 Internet security protocols and standards SSL – TLS – TLS handshake – HTTPS 5.2 Basic Hardening Removing unnecessary services/applications/protocols - chroot jail	K1,K2	10	1, 2

Demonstration

Computing hash value for a file to verify its integrity using md5sum/sha256sum - Buffer flow attack in a C program - Creating firewall rules using netfilter package in Linux - Restricting applications access to a directory using chroot jail - SQL Injection attack

BOOKS FOR STUDY

Stallings, William, and Lawrie Brown. "Computer security: principles and practice", Pearson, 2023.

Stallings William. Cryptography and Network Security: Principles and Practices. Prentice Hall, 5th Edition, 2010. (Unit 1.2 – Ch.3)

BOOKS FOR REFERENCE

Goodrich, Michael T., and Roberto Tamassia. *Introduction to computer security*. London, UK: Pearson, 2011.

Stamp, Mark. *Information security: principles and practice*. John Wiley & Sons, 2021.

Bishop, Matt. *Introduction to computer security*. Addison-Wesley Professional, 2004.

Kahate, Atul. "Cryptography and Network security" (2006).

WEB SOURCES

<https://nvlpubs.nist.gov/nistpubs/FIPS/NIST.FIPS.200.pdf>

<https://www.khanacademy.org/computing/computer-science/cryptography>

<https://owasp.org/www-community/attacks/>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components: Total Marks: 50

Quiz /Assignment/Seminar/Group Discussion/Problem solving

Case study on identifying vulnerabilities in an already developed project

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
Total		100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/SC65												
VI	Course Title: SECURITY CONCEPTS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	-	3	3	2	3	2
CO 2	3	3	2	2	3	2	3	-	3	3	2	3	2
CO 3	3	3	2	2	3	2	3	-	3	3	2	3	2
CO 4	3	3	2	2	3	2	3	-	3	3	2	3	2
CO 5	3	3	2	2	3	2	3	-	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

CLOUD COMPUTING

CODE:23CS/MC/CC65

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To learn the basic concepts and terminologies of cloud computing
- To understand the cloud-enabling technologies and security aspects
- To analyze on cloud infrastructure mechanisms
- To provide an understanding about cloud architecture and management
- To introduce cloud metrics and models

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the basic concepts of cloud computing	K1
CO2	explain the cloud-enabling technology and infrastructure	K2
CO3	apply the cloud mechanisms to establish cloud computing paradigm	K3
CO4	identify the appropriate cloud architecture suitable for the scenario	K4
CO5	develop a better solution for an application	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Understanding Cloud Computing Introduction – Basic Concepts and Terminology – Goals and Benefits – Risks and challenges 1.2 Fundamental Concepts and Models Roles and Boundaries – Cloud Characteristics – Cloud Delivery Models – Cloud Deployment Models 1.3 Cloud-Enabling Technology Broadband Networks and Internet Architecture – Data Center Technology	K1, K2	15	1,2

UNIT	CONTENT	CL	Hrs	CO
2	2.1 Web Technology Virtualization Technology – Web Technology – Multitenant Technology – Service Technology 2.2 Fundamental Cloud Security Basic Terms and Concepts – Threat Agents – Cloud Security Threats – Additional Considerations 2.3 Cloud Infrastructure Mechanisms Logical Network Perimeter – Virtual Server – Cloud Storage Device – Cloud Usage Monitor – Resource Replication – Ready-made Environment	K1-K5	15	1-5
3	3.1 Specialized Cloud Mechanisms Automated Scaling Listener – Load Balancer – SLA Monitor – Pay-per-use Monitor – Audit Monitor – Failover System – Hypervisor – Resource Cluster – Multi-Device Broker – State Management Database 3.2 Cloud Management Mechanisms Remote Administration System – Resource Management System – SLA Management System – Billing Management System	K1-K4	20	1-4
4	4.1 Fundamental Cloud Architectures Workload Distribution Architecture – Resource Pooling Architecture – Dynamic Scalability Architecture – Elastic Resource Capacity Architecture – Service Load Balancing Architecture – Cloud Bursting Architecture – Elastic Disk Provisioning Architecture – Redundant Storage Architecture 4.2 Cloud Delivery Model Considerations Cloud Delivery Models: The Cloud Provider Perspective – The Cloud Consumer Perspective 4.3 Service Quality Metrics and SLAs Service Quality Metrics – SLA Guidelines – Case Study Example	K1-K5	18	1-5
5*	5.1 Practical Demonstration Virtualization in Cloud - Infrastructure as a Service - Software as a Service 5.2 Case Studies Google Web Service – Amazon Web Service – Azure Cloud Service	K1-K5	10	CO1-5

*(Unit 5 – Not included for End Semester Examinations)

BOOK FOR STUDY

Puttini Ricardo, Thomas Erl, and Zaigham Mahmood. Cloud Computing Concepts, Technology & Architecture 2013.

BOOKS FOR REFERENCE

Buyya, Rajkumar, Christian Vecchiola, and S. Thamarai Selvi. Mastering cloud computing: foundations and applications programming. Elsevier, 2013.

Sosinsky, Barrie. Cloud Computing Bible. John Wiley & Sons, 2011.

Kavis, Michael J. "Architecting the cloud: design decisions for cloud computing service models (SaaS, PaaS, and IaaS)." Hoboken, NJ: Wiley. 2014.

WEB RESOURCES

https://onlinecourses.nptel.ac.in/noc21_cs14/preview

<https://www.coursera.org/browse/information-technology/cloud-computing>

<https://aws.amazon.com/what-is-cloud-computing/>

<https://azure.microsoft.com/en-in/overview/what-is-cloud-computing/>

<https://cloud.google.com/docs/>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:

Total Marks: 50

Component 1: Quiz /Assignment/Seminar/Group Discussion/Open book test

Component 2: Hosting a simple application in Cloud/previously done project in cloud

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/MC/CC65												
VI	Course Title: CLOUD COMPUTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	2	1	1	1	-	1	1	1	1	1
CO 2	3	2	2	2	2	1	1	-	1	1	2	1	1
CO 3	3	2	2	2	2	1	1	-	3	2	2	2	2
CO 4	3	3	2	2	3	3	2	-	3	3	2	3	2
CO 5	3	3	2	2	3	3	2	-	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT

CODE:23CS/MC/PR64

CREDITS: 4

OBJECTIVES OF THE COURSE

- To help students apply the concepts learned throughout the course and develop an application
- To enable students to understand and analyze project requirements effectively
- To equip the students with project management skills that enable them to deliver the product on time within specified constraints
- To encourage students to work collaboratively to analyze problems
- To brainstorm innovative solutions, and implement an optimal solution.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall fundamental of concepts and terminologies necessary for the project	K1
CO2	interpret workflows to gather essential data for system design	K2
CO3	identify the development environment suitable to develop a functional prototype for the project	K3
CO4	examine project requirements and resolve bottlenecks in the implementation phase	K4
CO5	design and construct a solution and critically evaluate the effectiveness of the project solution in addressing the specified problem, considering its impact, scalability, and potential for further improvement	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Content	CL	CO
Project requirements gathering and analysis	K1-K6	1-5
System analysis and design		
System design (database design, screen design, report design)		
Development of a working model of project		
Deployment, testing, and documentation		

BOOKS FOR STUDY

Alam, Daud, and Uwe Gühl. Project Management for Practice: A Guide and Toolbox for Successful Projects. Springer, 2022.

Roger, S. Pressman, and R. Maxin Bruce. Software engineering: a practitioner's approach. McGraw-Hill Education, Ninth edition, 2020.

Bob Hughes, Mike Cotterell and Rajib Mall: Software Project Management – Fifth Edition, Tata McGraw Hill, New Delhi, 2012.

Highsmith, Jim. Agile project management: creating innovative products. Pearson education, 2009.

BOOKS FOR REFERENCE

Robert K. Wysocki —Effective Software Project Management— Wiley Publication, 2011.

Walker Royce: —Software Project Management— Addison-Wesley, 1998.

Gopalaswamy Ramesh, —Managing Global Software Projects— McGraw Hill Education (India), Fourteenth Reprint 2013.

WEB RESOURCES

https://onlinecourses.nptel.ac.in/noc19_cs70/preview

<https://www.udemy.com/courses/search/?price=price-free&q=free+course+on+project+managemen+t&sort=relevance&src=ukw>

<https://www.ibm.com/topics/software-development>

PATTERN OF ASSESSMENT:

Component - 50 marks

Component I - Presentation / Review (Includes continuous evaluation of 3 presentations)

Component II – Final Paper /Final Project

End-Semester Examination

Documentation - 30 marks

Project/paper - 30 marks

Presentation - 20 marks

Viva - 20 marks

*All K levels are evaluated

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23CS/MC/PR64												
VI	Course Title: PROJECT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	2	1	1	1	-	1	1	1	1	1
CO 2	3	2	2	2	2	1	1	-	1	1	2	1	1
CO 3	3	2	2	2	2	1	1	-	3	2	2	2	2
CO 4	3	3	2	2	3	3	2	-	3	3	2	3	2
CO 5	3	3	2	2	3	3	2	-	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

ADVANCED JAVA PROGRAMMING

CODE:23CS/ME/AJ45

CREDITS: 5

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand XML basics and backend
- To enable the students to create window-based applications using JavaFX and CSS
- To be able to understand the advanced tools and to use canvas for drawing
- To understand concepts behind web technology
- To develop web-based applications using Servlets and JSP

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the core concepts of web application development	K1
CO2	explain the different applications using javafx, servlet, jsp and database connectivity	K2
CO3	apply the knowledge to build a window/web application	K3
CO4	analyse and differentiate between window and web application with backend	K4
CO5	develop an interactive window/web application	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Basics of XML Need for XML - Well Formed XML Documents - Validating an XML Document using XML Schema 1.2 Database Connectivity JDBC Database Connectivity - Types of JDBC Drivers - Establishing a Connection - Executing Statements - Prepared Statements - Callable Statements - Mapping SQL Types to Java- ResultSetMetadata	K1-K6	12	1-5

UNIT	CONTENT	CL	Hrs	CO
2	2.1 JavaFX Basics JavaFX - JavaFX Application Life Cycle, Defining the Main Window by using the Stage class, Key JavaFX packages 2.2 Scene Graph Using and Integrating Scene graph in JavaFX Application - Scene Class – Event Handling - Node Types - Primitive Nodes, LayoutPanels, Complex Nodes – Node Basics - Image and ImageView 2.3 Layouts and JavaFX Basic Controls HBox - VBox - StackPane - FlowPane - GridPane - BorderPane - Control Class - Basic Controls -Labeled Controls, Controls for Text Input, ProgressIndicator and ProgressBar - Tooltip of a Control - Menus -ToolBar – Separators	K1-K6	20	1-5
3	3.1 Additional JavaFX Controls Controls with a Data Model - ComboBox, ListView, TableView, TreeView – Controls that act as Containers - Canvas 3.2 Styling a Control CSS Basics - CSS in JavaFX - Using Selectors 3.3 Introduction to HTTP HTTP Protocol - HTTP Request, Get, Post, HTTP Response, HTTP Response codes - Client side and Server side programming	K1-K6	13	1-5
4	4.1 Web Applications Web Applications and Web Containers - Web components - Web Application Life Cycle - Creating, Building and Deploying - Web Archive Structure 4.2 Servlet Technology Need for Servlets - Characteristics of Servlets - Comparison between Servlets and other Server side scripting languages - Working of Servlet - javax.servlet package - Life Cycle of Servlet - Session - Interservlet communication – Request Dispatcher Interface	K1-K6	17	1-5
5	5.1 Java Server Pages Introduction – Comparison between JSP and Servlets – Life Cycle – Structure – Components - JSP Tags - JSP Session - Cookie – Static content- Dynamic content – Scripting Elements	K1-K6	16	1-5

BOOKS FOR STUDY

Ebbers, Hendrik. Mastering JavaFX 8 Controls: Create Custom JavaFX Controls for Cross-Platform Applications. (2014).

Schildt, Herbert. The Complete Reference - Java. 10th ed. Mc Graw Hill, 2017.

BOOKS FOR REFERENCE

Hall, Marty and Larry Brown. Core Servlets and JavaServer Pages: Advanced Technologies. 2nd ed. Prentice Hall, 2007.

Phillip, Hanna. JSP 2.0: The Complete Reference, Second Edition, 2017.

WEB RESOURCES

<https://docs.oracle.com/javase/8/javafx/api/javafx/animation/package-summary.html>

<https://docs.oracle.com/javase/8/javafx/get-started-tutorial/index.html>

<https://docs.oracle.com/javase/8/javafx/api/javafx/scene/doc-files/cssref.html>

<https://docs.oracle.com/javaee/6/tutorial/doc/bnafdf.html>

https://docs.oracle.com/cd/E13222_01/wls/docs81/jsp/intro.html

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Theory :

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (5)	$1 \times 10 = 10$	5	5
	K2 (5)		5	5
B (Internal Choice)	K2 (5)	$3 \times 5 = 15$	1	2
	K3 (5)		1	2
	K4 (5)		1	2
	Total	25	13	16

Practical :

Total Marks: 25

Duration: 45 minutes

Knowledge Level	Marks
K5	15
K6	10
Total	25

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion, Mini Project

Two to three components will be prescribed

End Semester Examination:**Theory:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (6)	10 x 1 = 10	6	6
	K2 (4)		4	4
B	K1 (4)	5 x 2 = 10	2	2
	K2 (6)		3	3
C (Internal Choice)	K1 (5)	6 x 5 = 30	1	2
	K2 (5)		1	2
	K3 (10)		2	4
	K4 (10)		2	4
	Total	50	21	27

Project - 50 marks (Demonstration and Viva)

Rubrics for Evaluation	Marks	Cognitive Level
Window / Web Application Front-end Design	15	K1-K6
Implementation with Database connection	15	K1-K6
Execution of the Project and Viva	20	K1-K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/ME/AJ45												
I	Course Title: ADVANCED JAVA PROGRAMMING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	1	2	2	1	1	-	2	1	1	1	1
CO 2	3	3	2	2	2	2	1	-	2	2	2	2	1
CO 3	3	3	2	2	2	3	2	-	3	2	2	3	3
CO 4	3	3	3	2	3	3	2	1	3	3	3	3	3
CO 5	3	3	3	2	3	3	2	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

DISTRIBUTED NETWORKING

CODE: 23CS/ME/DN45

CREDITS : 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand foundations of Distributed Systems.
- To be able to analyse the architectures.
- To understand in detail the system level and support required for distributed system.
- To understand how processes are treated in distributed networks.
- To discuss security and reliability issues in distributed networking.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the characteristics and architectural components of distributed systems	K1
CO2	explain the principles and concepts of distributed networking	K2
CO3	apply learned concepts to real-world distributed network scenarios	K3
CO4	describe the challenges and solutions for communication in distributed systems	K4
CO5	determine the suitable architectures, virtualization and investigate security and reliability issues in distributed networking	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction From networked systems to distributed systems- Distributed versus decentralized systems- A simple classification of distributed systems- Pitfalls 1.2 Architectures Architectural styles-Middleware organization- Layered-system architectures- Symmetrically distributed system architectures-Hybrid system architectures	K1, K2	18	CO1, CO2

UNIT	CONTENT	CL	Hrs	CO
2	Processes Introduction to threads- Threads in distributed systems- Virtualization- Principle of virtualization- Containers - Comparing virtual machines and containers- Application of virtual machines to distributed systems-Clients- Servers - Code migration	K1-K5	16	CO1-CO5
3	Communication Foundations: Layered Protocols- Types of Communication-Remote procedure call-Message-oriented communication- Message-oriented persistent communication- Example: Advanced Message Queuing Protocol (AMQP) - Multicast communication	K1-K5	16	CO1-CO5
4	Fault tolerance Introduction to fault tolerance - Process resilience - Reliable client-server communication-Reliable group communication-Distributed commit-Recovery	K1-K5	18	CO1-CO5
5	Security Introduction to security- Authentication-Trust in distributed systems-Authorization	K1-K5	10	CO1-CO5

BOOKS FOR STUDY

Andrew S. Tanenbaum and Maarten Van Steen, Distributed Systems,2023
George Coulouris, Jean Dollimore, and Tim Kindberg, Distributed Systems: Concepts and Design,2017

BOOKS FOR REFERENCE

Andrew S. Tanenbaum and Maarten Van Steen, Distributed Systems: Principles and Paradigms
Daniel Drescher, Blockchain Basics: A Non-Technical Introduction in 25 Steps
Martin L. Abbott and Michael T. Fisher, The Art of Scalability
Brendan Burns, Designing Distributed Systems

WEB RESOURCES

www.distributed-systems.net

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/ME/DN45												
IV/VI	Course Title: Distributed Networking												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	1	1	1	1	-	2	2	1	1	1
CO 2	2	2	1	1	1	1	1	1	2	2	1	1	1
CO 3	3	2	3	1	3	2	2	1	3	1	2	3	2
CO 4	2	3	2	1	2	2	2	1	3	1	2	3	1
CO 5	1	2	2	1	2	2	2	-	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

GAME PROGRAMMING

CODE: 23CS/ME/GP45

CREDITS: 5

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the concepts of Game design and development using Flash and ActionScript
- To enable the learning processes, mechanics and issues in Game Design
- To enable the students to create characters and control their movement
- To detect and avoid the collision
- To understand the natural motion using physics concepts and develop games

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the concepts of game designing and development	K1
CO2	explain the learning processes, mechanics and issues in designing a game	K2
CO3	apply the concepts and mechanics of Game Design	K3
CO4	examine the created characters, movements, collision and natural motion	K4
CO5	develop games using Flash and ActionScript	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Programming Foundations - How to Make a Video Game Laying the foundation - Writing your first program - Publishing the SWF file 1.2 Making Objects Understanding Interactive Objects - Drawing the first page - Creating a Character, using Buttons	K1-K6	15	1-5
2	2.1 Programming Objects Displaying the First Page of the Storybook - Programming Buttons - Understanding - Events and Event listeners - Programming Storybook Buttons 2.2 Controlling Movie Clip Objects Movie Clip Properties - Controlling Movie Clip Timelines	K1-K6	16	1-5

UNIT	CONTENT	CL	Hrs	CO
3	3.1 Decision Making Designing a GUI - Building a Simple Guessing Game - Learning more about Variables, Making Decisions, Polishing up 3.2 Controlling a Player Character Controlling a Player Character with the Keyboard - Setting Screen Boundaries – Scrolling	K1-K6	16	1-5
4	4.1 Bumping into Things Changing a Dynamic Text Field - Triggering a Change of State - Reducing a Health Meter - Updating a Score - Picking up and Dropping Objects – Drawbacks of hitTestObject - Using hitTestPoint - Creating Objects with Block Movement – Working with Axis - Based Collision Detection 4.2 Object-Oriented Game Design Introducing Object-Oriented Programming	K1-K6	18	1-5
5	5.1 Platform Game - Physics and Data Management Natural Motion using Physics	K1-K6	13	1-5

BOOK FOR STUDY

Rex van der Spuy. Foundation Game Design with Flash. Apress, 2009.

BOOK FOR REFERENCE

Peters, Keith. Foundation Action Script 3.0 Animation: Making Things Move!. Apress, 2007.

WEB RESOURCES

<https://github.com/Apress/foundation-game-design-w-flash>

www.as3gametuts.com/

<https://github.com/Apress/foundation-actionscript-3.0-animation>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Theory :

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (5)	$1 \times 10 = 10$	5	5
	K2 (5)		5	5
B (Internal Choice)	K2 (5)	$3 \times 5 = 15$	1	2
	K3 (5)		1	2
	K4 (5)		1	2
	Total	25	13	16

Practical : **Total Marks: 25**

Duration: 45 minutes

Knowledge Level	Marks
K5	15
K6	10
Total	25

Other Components: **Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion, mini project

Two to three components will be prescribed

End Semester Examination:

Theory: **Total Marks: 50**

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (6)	$10 \times 1 = 10$	6	6
	K2 (4)		4	4
B	K1 (4)	$5 \times 2 = 10$	2	2
	K2 (6)		3	3
C (Internal Choice)	K1 (5)	$6 \times 5 = 30$	1	2
	K2 (5)		1	2
	K3 (10)		2	4
	K4 (10)		2	4
	Total	50	21	27

Project - 50 marks (Demonstration and Viva)

Rubrics for Evaluation	Marks	Cognitive Level
Storyboard	10	K1
Clarity, flow, balance, length, integration, fun	10	K2
Implementation	15	K3, K4
Execution of the Game	15	K5, K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/ME/GP45												
IV/VI	Course Title: Game Programming												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	3	2	2	-	-	2	1	1	1	1
CO 2	3	2	2	3	2	2	-	-	2	2	2	2	1
CO 3	3	3	3	3	3	3	-	-	3	2	3	2	1
CO 4	3	3	3	3	3	3	-	-	3	3	3	3	2
CO 5	3	3	3	3	3	3	-	-	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

ARTIFICIAL INTELLIGENCE

CODE : 23CS/ME/AI45

CREDITS: 5

L T P:5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To familiarize students with the principles and techniques of Artificial Intelligence
- To understand the different environments in any given problem space
- To explore different search techniques for solving problems
- To appreciate and understand the various AI applications in different fields
- To relate the concepts in Artificial Intelligence with the current Trends

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the fundamentals and concepts involved in Artificial Intelligence	K1
CO2	understand the different environments involved in problem solving	K2
CO3	identify appropriate search algorithms and heuristic methodologies required for a given problem	K3
CO4	analyze the environment of the given problem	K4
CO5	evaluate a given problem using different knowledge representation methods and derive inferences	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Overview of AI Introduction – The foundations – Evolution – Example Applications 1.2 Intelligent Agents Agents and Environments – The concept of Rationality – Task Environment and its properties – Agent structure – Working of the components of Agent programs	K1-K3	14	1-3

UNIT	CONTENT	CL	Hrs	CO
2	2.1 Solving problems by searching Problem solving Agents – Goal and Problem Formulation through 8-queens problem, route-finding problem Uninformed Search Strategies – Informed Search Strategies – Heuristic functions 2.2 Local Search Algorithms Hill climbing – simulated annealing – Local Beam Genetic Algorithms – Local Search in Continuous spaces	K1- K5	15	1-5
3	3.1 Searching in partially observable or nondeterministic environments Searching with Nondeterministic Actions - Searching with Partial Observations - Online Search Agents and Unknown Environments 3.2 Adversarial Search Games -Optimal Decision in Games - Alpha-Beta Pruning - Imperfect Real-Time Decisions - Stochastic Games - Partially Observable Games - Use of AI in Game Programs - Alternative Approaches	K1-K5	15	1-5
4	4.1 Constraint Satisfaction Problems Introduction - Inference in CSPs - Backtracking Search - Local Search - The Structure of Problems 4.2 Logic and Inference Knowledge based agents-Propositional Logic - First-Order logic- Unification- Forward chaining-Backward chaining - Resolution	K1-K5	14	1-5
5	5.1 Quantifying uncertainty and Probabilistic Reasoning Acting Under Uncertainty - Basic Probability Notation - Inference using Full Joint Distributions - Representing knowledge under Uncertain Domain - Semantics and Inference of Bayesian Networks - Hidden Markov Models 5.2 Recent Trends* Contemporary Trends	K1-K5	20	1-5

***5.2 - Only for Components. Not included for End Semester Exam.**

BOOK FOR STUDY

Stuart Russell, Peter Norvig. AI – A Modern Approach. 3rd Edition. Pearson Education 2015

BOOKS FOR REFERENCE

D. Poole and A. Mackworth. Artificial Intelligence: Foundations of Computational Agents. Cambridge University Press. 2010

Elaine Rich, Kevin Night, Nair B. Artificial Intelligence. 3rd Edition. McGraw Hill. 2017

R. Brachman, H. Levesque. Knowledge Representation and Reasoning. Morgan Kaufmann. 2004.

WEB RESOURCES

<https://nptel.ac.in/courses/106105077>

<https://archive.nptel.ac.in/courses/106/106/106106126/>

<https://archive.nptel.ac.in/courses/106/106/106106158/>

PATTERN OF EVALUATION

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 – 5	10	5	5
	K2 - 5		5	5
B	K1 – 5	20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C	K3 – 10	20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components: Total Marks: 50

Seminar/Group discussion/Assignment/Case study

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/ME/AI45												
IV/VI	Course Title: ARTIFICIAL INTELLIGENCE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	3	1	1	-	-	1	1	1	1	1
CO 2	3	1	1	3	2	1	-	-	1	1	1	1	1
CO 3	3	3	1	3	2	3	-	-	2	2	2	2	1
CO 4	3	3	2	3	2	3	-	-	2	2	2	2	1
CO 5	3	3	2	3	3	3	-	-	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNET OF THINGS

CODE: 23CS/ME/IT45

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce the concepts of Internet of Things (IoT)
- To identify the various data models and framework of IoT
- To understand the standards and protocols associated with IoT
- To learn how to develop an IoT application.
- To define the concepts of reliability, security and privacy in IoT

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the fundamental concepts of IoT	K1
CO2	classify the framework involved in IoT and its governance	K2
CO3	apply the scope of different standards and protocols	K3
CO4	examine the core concepts of IoT and its working mechanisms	K4
CO5	interpret the perspective of having a reliable and secure IoT models	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 IoT Ecosystem Concepts and Architectures Introduction – IoT definition and evolution – IoT Architectures – OpenIoT Architecture for IoT/Cloud Convergence - Resource Management – IoT Data Management and Analytics - Communication Protocols – Internet of Things applications 1.2 Scheduling Process and IoT Services Lifecycle - IoT enabling technologies – IoT levels and Deployments templates – Introduction to M2M - Difference between IoT and M2M – SDN and NFV for IoT	K1-K3	16	1-3
2	2.1 IoT Data and Framework Essentials Introduction - Programming framework for IoT– The foundation of Stream processing in IoT - Continuous Logic processing system – Challenges and Future directions – Anomaly detection – Problem statement and definitions – Efficient incremental local modelling – IoT Governance	K1-K3	14	1-3

UNIT	CONTENT	CL	Hrs	CO
3	3.1 RF Protocols RFID, NFC;IEEE 802.15.4: ZigBee - ZWAVE, THREAD - Bluetooth Low Energy (BLE) - IPv6 for Low Power and Lossy Networks (6LoWPAN) - Routing Protocol for Low power and lossy networks (RPL) - CoAP - XMPP - Web Socket- AMQP – MQTT – WebRTC - PuSH Architectural Considerations in Smart Object Networking - TinyTO Protocol 3.2 Introduction to IoT based applications Scenarios – Architecture overview – Sensors – The gateway – Data Transmission – Internet of Vehicles (IoV) – IoV Characteristics, technologies and its application	K1-K5	16	1-5
4	4.1 Developing Internet of Things Introduction-IoT Design Methodology – Case study on IoT system for Weather monitoring – IoT Device - IoT physical devices and endpoints - Exemplary Device: Raspberry Pi - Raspberry Pi interfaces – Programming Raspberry Pi and with python – Other IoT devices	K1 - K5	17	1-5
5	5.1 IoT Reliability, Security and Privacy Introduction - Concepts - IoT Security Overview – Security Frameworks for IoT – Privacy in IoT networks – IoT characteristics and reliability issues – Addressing reliability – Error detections – Fault Preventions - Case studies illustrating IoT Design	K1-K5	15	1-5

Demonstration

IoT Concepts – Arduino Boards, Raspberry Pi and using simulators, Mason software

BOOKS FOR STUDY

Arshdeep Bahga, Vijay Madiseti, “Internet of Things, A Hands -on Approach”, 1st Edition 2015, University Press, ISBN: 978-81-7371- 954-7

Buyya, Rajkumar, and Amir Vahid Dastjerdi, eds. Internet of Things: Principles and paradigms. Elsevier, 2016.

Hersent, Olivier, David Boswarthick, and Omar Elloumi. The internet of things: Key applications and protocols. John Wiley & Sons, 2011

BOOKS FOR REFERENCE

Bernd Scholz-Reiter, Florian Michahelles, “Architecting the Internet of Things”, ISBN 978-3-642-19156-5 e-ISBN 978-3-642-19157-2, Springer

Jan Holler, VlasiosTsiatsis, Catherine Mulligan, Stefan Avesand, StamatisKarnouskos, David Boyle, “From Machine-to-Machine to the Internet of Things: Introduction to a New Age of Intelligence”, 1st Edition, Academic Press, 2014.

Peter Waher, “Learning Internet of Things”, PACKT publishing, Birmingham Mumbai

WEB RESOURCES

<https://thingsee.com/blog/quality-hardware-list-for-your-iot-projects>.

<https://tools.ietf.org/html/rfc7452>.

<http://dret.net/lectures/iot-spring15/protocols>.

<http://iot.intersog.com/blog/overview-of-iot-development-standards-andframeworks>.

PATTERN OF EVALUATION

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 5	10X1=10	5	5
	K2 - 5		5	5
B (Internal Choice)	K1 – 5	4X5=20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C (Internal Choice)	K3 – 10	2X10=20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:

Total Marks: 50

Quiz /Assignment/Seminar/Group Discussion

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/ME/IT45												
IV/VI	Course Title: INTERNET OF THINGS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	2	1	1	1	-	1	1	1	1	-
CO 2	3	2	2	2	2	1	1	-	1	1	2	1	-
CO 3	3	2	2	2	2	1	1	-	3	2	2	2	-
CO 4	3	3	2	2	3	3	2	-	3	3	2	3	-
CO 5	3	3	2	2	3	3	2	-	3	3	3	3	-

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023–2024)

ALGORITHM DESIGN TECHNIQUES

CODE: 23CS/ME/AD45

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To be able to understand the various algorithm design techniques and strategies
- To be able to choose the right strategy for solving a problem
- To understand NP hard and NP complete problems
- To understand String Algorithms and its applications
- To be able to analyze and evaluate the algorithms based on different strategies

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the algorithm design techniques and strategies	K1
CO2	explain the various classes of problems	K2
CO3	apply different strategies for solving problems	K3
CO4	examine the complexity associated with different strategies	K4
CO5	choose an appropriate strategy and develop an algorithm	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Divide and conquer General method – Binary Search – Finding the maximum and minimum – Recurrence relations 1.2 Greedy method General method – Job sequencing with deadlines – 0/1 knapsack problem – Minimum cost spanning trees – Single source shortest path problem	K1-K5	16	1-5
2	2.1 Dynamic Programming General method – All Pairs Shortest Paths – Single Source Shortest Paths – 0/1 knapsack problem – Travelling-salesperson problem	K1-K5	13	1-4
3	3.1 Backtracking General method – 8-Queen’s problem – Sum of subsets problem – Graph coloring – Hamiltonian cycles	K1-K5	17	1-5

UNIT	CONTENT	CL	Hrs	CO
	3.2 Branch and Bound General method – 0/1 knapsack problem – LC Branch and Bound Solution – FIFO Branch and Bound solution			
4	4.1 String Algorithms Radix Sort – Tries – Substring search: Naïve, Rabin-Karp, KMP – Data Compression: Run Length Encoding, Huffman Compression 4.2 Randomized Algorithms General method - Quicksort	K1-K5	16	1-4
5	5.1 NP-Hard and NP-Complete problems Basic concepts – P and NP – Deterministic vs Non-deterministic algorithms – NP-Hard and NP-Complete classes 5.2 Approximation Algorithms General method – Load balancing problem	K1-K4	16	1-4

BOOKS FOR STUDY

Horowitz, Ellis, Sartaj Sahni, Sanguthevar Rajasekaran. Fundamentals of Computer Algorithm. Galgotia Publications Pvt Ltd, 1997.

Cormen, Thomas H., Charles E. Leiserson, Ronald L. Rivest, and Clifford Stein. Introduction to algorithms. MIT press, 2022.

Robert Sedgewick, and Kevin Wayne. Algorithms. 2011. Fourth Edition, Pearson Education (Unit-4.1)

Kleinberg, Jon, and Tardos, Eva. Algorithm Design. United Kingdom, Pearson Education, 2022. (Units-4.2, 5.2)

BOOK FOR REFERENCE

Levitin, Anany. Introduction to design and analysis of algorithms, 3/E. Pearson Education India, 2011.

WEB SOURCES

https://onlinecourses.nptel.ac.in/noc19_cs47/preview

<https://ocw.mit.edu/courses/6-046j-design-and-analysis-of-algorithms-spring-2015/>

<https://web.stanford.edu/class/cs97si/10-string-algorithms.pdf>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A	K1 – 5	10	5	5
	K2 - 5		5	5
B	K1 – 5	20	1	2
	K2 – 5		1	2
	K4 – 5		1	2
	K5 – 5		1	2
C	K3 – 10	20	1	2
	K4 – 10		1	2
	Total	50	16	22

Other Components:

Total Marks: 50

Quiz /Assignment/Seminar/Group Discussion/Problem solving/Algorithm Tracing

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 – 10	20X1=20	10	10
	K2 – 10		10	10
B (Internal Choice)	K3 – 10	4X5=20	2	4
	K4 – 10		2	4
C (Internal Choice)	K1 – 12	5X12=60	1	2
	K2 – 12		1	2
	K3 – 12		1	2
	K4 – 12		1	2
	K5 – 12		1	2
	Total	100	29	38

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/ME/AD45												
IV/VI	Course Title: ALGORITHM DESIGN TECHNIQUES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	3	1	1	-	-	1	1	1	1	1
CO 2	3	1	1	3	2	1	-	-	1	1	1	1	1
CO 3	3	3	1	3	2	3	-	-	2	2	2	2	1
CO 4	3	3	2	3	2	3	-	-	2	2	2	2	1
CO 5	3	3	2	3	3	3	-	-	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

MOBILE APP DEVELOPMENT FOR ANDROID

CODE:23CS/ME/MA45

CREDITS: 5

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the app development environment and recall the anatomy of an Android application
- To identify and apply the different Android components in building a mobile app
- To analyse the UI, layouts, storage and services
- To be able to work with layouts, database connectivity and advanced UI
- To design and create a mobile app in Android environment

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall and relate the core concepts of mobile app development	K1
CO2	explain the different Android components, UI controls, layouts, listeners, storage and database concepts	K2
CO3	apply the knowledge to build mobile applications	K3
CO4	analyse and differentiate between activities, intents, fragments	K4
CO5	develop an interactive mobile application	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	1.1 Introduction to Mobile App Concept – Various App Development Platforms – Android - History, Versions - Overview of Android architecture - Android Stack - Linux, Dalvik Virtual Machine, Core Libraries, Application Framework, Applications - OS vs IOS 1.2 Understanding an Android App Creating an Example Android Application - Anatomy of Android Application	K1-K6	12	1-5

UNIT	CONTENT	CL	Hrs	CO
2	2.1 Activities, Intents, Fragments Activities and Activity Lifecycle - Activity state changes - Example, Saving and restoring UI state - Intents - Explicit and Implicit Intents, Example - Fragments- Creating, Adding and managing fragments, Handling Fragment events, Example 2.2 Android User Interface Creating views and view groups - Layouts - Linear, Table, Relative, Absolute, Frame, Scroll view - Changing screen orientation - Creating GUI – button, text, checkbox, radio, Menus - Event Handling - ClickListener, FocusChangeListener, Touch Listener, MenuItemClickListener, LongClickListener	K1-K6	20	1-5
3	3.1 Persistent Storage Files – Using application specific folders and files, creating files, reading data from files, listing contents of a directory Shared Preferences – Creating shared preferences, saving and retrieving data using Shared Preference Database 3.2 Database Programming SQLite - SQLite classes, Cursor, SQLite database, SQLite Queries – create, insert, select, update and delete - Connecting to a Remote database using MySQL/PHP	K1-K6	16	1-5
4	4.1 Enhancing Android User Interface Notification - Action Bar – Dialogs – Search - Styles and Themes – Defining, using Inheritance, Android themes, Default styles and themes, Android SMS – Deploying App in Play Store – Multilingual 4.2 Location Based Services Using Location Manager, Location Provider - Using emulator with Location based services – Selecting a Location provider – Finding your current location – Best practice for location updates – Using proximity alerts – Using the Geocoder – Creating map based activities	K1-K4	15	1-4
5	5.1 Advanced User Experience Designing for every screen size and density – Ensuring Accessibility – Introducing Android Text-to-Speech – Using Speech recognition 5.2 Case Study Case study on recent apps	K1-K4	15	1-4

BOOKS FOR STUDY

Deitel, Paul, Harvey Deitel and Abbey Deitel. *Android™ for Programmers: An App-Driven Approach*. 2nd ed. Prentice Hall, 2014.

Meier Reto. *Professional Android 4 Application Development*. Wiley India, (Wrox), 2012

Smyth, Neil. *Android App Development Essentials*. 1st ed. CreateSpace Independent Publishing Platform, 2014.

Wei, Jason. *Android database programming*. Packt, 2012.

BOOKS FOR REFERENCE

Gargenta, Marko. *Learning Android*. O’Rielly, 2011.

Smith, Dave and Jeff Friesen. *Android Recipes: A Problem – Solution Approach*. 3rd ed. Apress, 2012

WEB RESOURCES

<https://developer.android.com/guide>

<https://developer.android.com/about/versions>

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Theory :

Total Marks: 25

Duration: 45 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (5)	$1 \times 10 = 10$	5	5
	K2 (5)		5	5
B (Internal Choice)	K2 (5)	$3 \times 5 = 15$	1	2
	K3 (5)		1	2
	K4 (5)		1	2
	Total	25	13	16

Practical :

Total Marks: 25

Duration: 45 minutes

Knowledge Level	Marks
K5	15
K6	10
Total	25

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Theory:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (6)	10 x 1 = 10	6	6
	K2 (4)		4	4
B	K1 (4)	5 x 2 = 10	2	2
	K2 (6)		3	3
C (Internal Choice)	K1 (5)	6 x 5 = 30	1	2
	K2 (5)		1	2
	K3 (10)		2	4
	K4 (10)		2	4
	Total	50	21	27

Project - 50 marks (Demonstration and Viva)

Rubrics for Evaluation	Marks	Cognitive Level
Mobile Application Front-end Design	15	K1-K6
Implementation with Database connection	15	K1-K6
Execution of the Project and Viva	20	K1-K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23CS/ME/MA45												
IV/VI	Course Title: Mobile App Development for Android												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	1	2	3	3	2	3	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 3	3	3	2	3	3	3	2	1	3	3	2	2	2
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course offered by the Department of Computer Science to
B.A. / B.Sc. / B.Com. / B.B.A / B.S.W. Degree**

SYLLABUS

(Effective from the academic year 2023-2024)

COMPUTER FUNDAMENTALS

CODE:23CS/GE/CF22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To expose the students to various functional units of a computer
- To understand the post assembly operations
- To expose students to various web tools

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the various functional units of a computer	K1
CO2	explain post assembly operations and hardware problems	K2
CO3	choose an appropriate web tool to create and publish contents	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Computer System Hardware Introduction - Inside a Computer Cabinet - Motherboard, BIOS, CMOS, Ports and Interfaces, Expansion Slots, Ribbon cables, Memory Chips, Storage Devices, Processor – Primary Memory, Secondary Memory, Magnetic disk – Hard disk, Optical Disk – CD-ROM 1.2 Plug and Play Devices Mouse – Keyboard – Printer – Scanner - Webcam - Digital Devices – Microphone – External Hard Drive	K1-K2	10	CO1-2
2	2.1 Post Assembly Operations in Practice Partitioning of Hard drive - Installation of Software - System and Application Software – Antivirus, MS Office package, installing updates from internet, Control Panel Features Programs, Manage User accounts, Network & Internet, Clock, Language and Region, Appearance and Personalization, System and Security, Hardware and Sound. 2.2 Troubleshooting Hardware problems Approach towards Hardware problems - Troubleshooting - Mother Board, Processor, RAM, Hard drive, I/O Devices, Keyboards, Monitors and Video Cards.	K1-K2	9	CO1-2

UNIT	CONTENT	CL	HRS	CO
3	3.1 Web Tools The Read / Write Web – Weblogs - Pedagogy and Practice, Get Started – Wikis – Easy Collaboration for all – Flickr - Creating, Publishing and Using Images Online – Podcasting, Video and Screen casting - Multimedia Publishing for the Masses 3.2 Ways to improve one's digital life Functionality – Security	K1-K3	7	CO1-3

BOOKS FOR STUDY

Andrews , Jean. A+ Guide to Managing & Maintaining Your PC. 8thed. Cengage Learning, 2013. (Chapter 13) (unit 2)
 Balasubramanian D. Computer Installation and Servicing. 2nd ed. Tata McGraw Hill, 2005.
 Berger, Pam and Sally Trexler. Choosing Web 2.0 Tools for Learning and Teaching in a Digital World.1st ed. Library of Congress Cataloguing-in-Publication Data,2010. (unit -3)
 Fadia, Ankit. Faster 100 ways to improve your digital life. Penguin Books India, 2013(unit-3)
 Goel ,Anita. Computer Fundamentals. Pearson Education India, 2010. (unit 1)

BOOKS FOR REFERENCE

Gookin ,Dan. Troubleshooting your PC – For Dummies. John Wiley, 2008
 Richardson, Will. Blogs, Wikis, Podcasts, and Other Powerful Web Tools for Classrooms. 3rd ed. SAGE.
 Zacker, Craig and John Rourke, PC Hardware, The Complete Reference. Tata McGraw Hill Publications, 2001

WEB RESOURCES

<https://www.theblogstarter.com/>
<https://websitesetup.org/how-to-start-a-blog-guide/>
<https://themeisle.com/blog/how-to-create-a-blog/>
<https://startbloggingonline.com/>
<https://edu.gcfglobal.org/en/computerbasics/basic-troubleshooting-techniques/1/>
<https://www.bestvpn.com/tutorials/troubleshooting.shtml>

PATTERN OF ASSESSMENT:

Only Internal Assessment

Total of component I and component II will be taken as Internal Assessment

Other Component:

Total Marks: 50

CRITERION	Knowledge Level	Marks
Identifying the different Hardware Components / PC Assembling and Troubleshooting hardware problems	K1-K3	25
Case Study on various Web Tools	K1-K3	25
	Total	50

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SYLLABUS

(Effective from the academic year 2023–24)

IMAGE EDITING AND ANIMATION

CODE:23CS/GE/IA22

CREDITS: 2

L T P: 1 0 1

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide software skills and hands on experience in digital media
- To apply filters, masking, tweening and editing techniques
- To effectively use the tools available in photoshop and flash

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COS	DESCRIPTION	CL
CO1	recall the concepts of multimedia elements	K1
CO2	demonstrate image editing and animation techniques	K2
CO3	implement digital content using photoshop and flash techniques	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Photoshop Workspace overview - Custom workspace - Cruising main menus – Panels – Layers - Organising files - Saving the files - Creating slideshow- Drawing tools - Painting – Selection tools - Lasso Options, Magic Wand, Quick - Selection - Correction Tools - Heal and Spot Healing, Patch tool - Eyedropper tool – Brush - Clone Source - Rubber Stamp - Text Tool- Smudge - Blur and Sharpen - Dodge - Burn - Blending modes - Transparency - Moving Path – Filters - Masking –Designing a Collage	K1-K2	10	CO1-2
2	2.1 Flash Flash work environment – Stage - Drawing tools and their modifiers – Basic drawing techniques – Animation – Timeline - Tweening and its types - The power of layers – Learning about symbols – Libraries – Onion	K1-K2	10	CO1-2

UNIT	CONTENT	CL	HRS	CO
	skinning – Text tool- Basic Action Scripting – Button behaviors – Navigation – Making presentation using Action Script – Symbols - Instances, Instance properties and methods – Dynamic input and text – Events – Button Event Handling- Adding sound to movies – save files – Publishing movies			
3	3.1 Mini Project Mini Project using Photoshop and Flash	K1-K3	6	CO1-3

BOOKS FOR REFERENCE

Parekh, Rajan. Principles of Multimedia. 2nd ed. Tata McGraw Hill Publishing, 2013.
Dayley, Lisa DaNae and Brad Dayley. Photoshop CS5 Bible. 1st ed. Wiley Dreamtech India Pvt Ltd, 2010.
Perkins, Todd. Flash Professional CS5 Bible. 1st ed. Wiley Dreamtech, 2010.

WEB RESOURCES

https://help.adobe.com/archive/en/photoshop/cs6/photoshop_reference.pdf
https://help.adobe.com/archive/en/flash/cs6/flash_reference.pdf
<https://www.photoshopessentials.com>

PATTERN OF ASSESSMENT

Only Internal Assessment

Total of component I and component II will be taken as Internal Assessment

Other Component

Total Marks: 50

CRITERION	Knowledge Level	Marks
Mini Project using Photoshop and Flash	K1-K3	50

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SYLLABUS

(Effective from the academic year 2023-2024)

CYBER SECURITY

CODE: 23CS/GE/CS22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To familiarize the students with the core concepts and vocabulary of computer security
- To familiarize the students with information security laws and regulatory
- To enable students to recognize real time cyber security attacks

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COsp	DESCRIPTION	CL
CO1	recall cyber security threats and counter measures	K1
CO2	explain various of information security governance, and related legal and regulatory issues	K2
CO3	apply real-time security solutions for their day to day online activities	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Introduction to Information Security The History of Information Security- What Is Security-CNSS Security Model-The Need for Security: Business Needs First-Threats- Attacks. 1.2 Cyber Security Fundamentals Cyber Attack: Attackers-Hackers-Crackers-Crimes and Problems-Social Engineering Attacks- A Step-By-Step Guide for Strengthen Your Security	K1 – K3	10	1 -3
2	2.1 Understanding The Cyber Security Landscape The Changing Face of Cybercriminals-The Lifecycle of an Advanced Attack-Role of Malware 2.2 Cyber Terrorism Terrorist Use of the Internet- Internet as Weapon, Wireless Threat	K1 – K3	9	1 -3

UNIT	CONTENT	CL	HRS	CO
	2.3 Laws and Regulatory Requirements Need of Cyber Law in India - Laws Related to Information Security - IT Act of India 2000- Copyright law in India- Intellectual property rights			
3	3.1 Cryptography: Foundations of Cryptology Cipher Methods 3.2 Security Measures Basic-Passwords-Computers-Phones and Tablets- Social Media-Chatting and Phone Calls- Internet Banking	K1 – K3	7	1-3

BOOKS FOR STUDY

Information Security Handbook for Network Beginners.National Center of Incident Readiness and Strategy for Cybersecurity (NISC), The Government of JAPAN, Ver 2.11e (Unit 1.2)Lawrence C. Miller Cyber security for dummies. CISSP(Unit2.1)
 Whitman, Michael E.,Whitman and Herbert J. Mattord. Principles of Information Security.Cengage Learning, 2011(Unit 1.1,3.1)

BOOKS FOR REFERENCE

Pfleeger ,Charles P and Shari Lawrence Pfleeger. Security in Computing, 4th ed. Consulting Group Pearson, 2007

WEB RESOURCES

<https://littlefield.co/cyber-terrorism-understanding-and-preventing-acts-of-terror-within-our-cyber-space-26ae6d53cfbb> (Unit 2.2)
<https://watchyourhack.com/>(Unit 3.2)
<http://www.ncb.mu/English/Documents/Downloads/Reports%20and%20Guidelines/Guideline%20on%20Secure%20Internet%20Banking.pdf>
<http://www.legalserviceindia.com/article/195-copyright-law-in-india.html>
http://en.wikipedia.org/wiki/copyright_law_of_india
https://www.wipo.int/edocs/pubdocs/en/intproperty/450/wipo_pub_450.pdf

PATTERN OF ASSESSMENT:**Only Internal Assessment**

Total of component I and component II will be taken as Internal Assessment

Other Component:**Total Marks: 50****Component 1:****Marks – 25****Theory:****Total Marks: 25****Duration: 45 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A (Objective type questions)	K1 (5)	$1 \times 10 = 10$	5	5
	K2 (5)		5	5
B (Internal Choice)	K1 (5)	$3 \times 5 = 15$	1	2
	K2 (5)		1	2
	K3 (5)		1	2
	Total	25	13	16

Component 2: Marks – 25

CRITERION	Knowledge Level	Marks
Case Study on Real-Time Cyber Security Issues	K1-K3	25

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SYLLABUS

(Effective from the academic year 2023-2024)

DOCUMENTATION AND PRESENTATION

CODE: 23CS/GE/DP22

CREDITS :2

L T P: 1 0 1

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To give students the knowledge and understanding to prepare formatted documents and powerful presentations
- To provide hands-on use of Microsoft Office applications
- To familiarize the basics and advanced concepts of Word and PowerPoint
- To understand the method of protecting documents

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	create a document with proper formatting	K1
CO2	create personal, academic and business documents following current industry standards	K2
CO3	create a presentation in Microsoft PowerPoint that is interactive with legible content and apply Designs to Enhance the feel of the Presentation. Protect the documents and limit the access.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Word Processing Introduction – The Style Advantage, Outlining, - Autocorrect – Compatibility with previous versions of word –Drawing Canvas –Styles and Character/Font Formatting – Bullets and Numbering –Character Formatting –Paragraph Formatting –Styles and paragraph Formatting, Structural Formatting, paragraph Decoration – Find, Replace and GO To – Language Tools –Auto Correct – Auto Format –Tables – Pictures and SmartArt – Headers and Footers	K1-K3	4	1-3

UNIT	CONTENT	CL	HRS	CO
2	2.1 Advanced Word Processing Symbols and Equations –Charts –Inserting Objects and Files –Blogging-Templates and Themes – Bookmarks –Tables of Contents –Footnotes and Endnotes -Citations and Bibliography –Indexing –Table of Authorities – Hyperlinks and Cross-References –Envelopes and Labels -Data Documents and Mail Merge –The Ribbon -Security, Tracking and Comments –Protection Type-Integration with other office Applications –Excel, PowerPoint	K1-K3	10	1-3
3	3.1 Presentation Tool Introduction to PowerPoint – Changing the view – Creating a good presentation- Creating and saving Presentation Files –Creating New Slides and Text Boxes – Working with Layout, Themes and Masters –Formatting Text –Formatting Paragraphs –Correcting and Improving Text –Creating and Formatting Tables- Creating SmartArt Diagrams–Importing Image Files into PowerPoint – Compressing Images –Creating a Photo Album Layout- Working with Charts – Working with External Content- Copying Content from Other Programs - Adding Sound Effects, Music and Soundtracks –Creating Animation Effects and Transitions –Creating Support Materials –Preparing for a Live Presentation –Limiting User Access to a Presentation	K1-K3	12	1-3

BOOKS FOR STUDY

Herb Tyson. Microsoft® Word 2010 Bible. Wiley Publishing, Inc.
 Lisa A. Bucki. Word 2013 Bible. Wiley Publishing, Inc.
 Faithe Wempen. PowerPoint 2013 Bible. Wiley Publishing, Inc.

BOOKS FOR REFERENCE

Lambert Joan. Microsoft Word 2016 Step by Step 1st ed. Microsoft Press.2016.
 Price Michael. McGrath Mike Office 2016 Step by Step 1st ed. Microsoft Press 2016.
 Freedman J. Microsoft Word 2013 Plain & Simple 2013. Microsoft Press
 Echo Swinford. My PowerPoint 2016.Pearson education

WEB RESOURCES

<https://www.microsoft.com/learning/en-us/book.aspx?ID=9600&locale=en-us>
<http://www.onlineprogrammingbooks.com/free-ebook-microsoft-office-powerpoint/>
<http://bookboon.com/en/microsoft-office-powerpoint-ebook#download>
https://www.dit.ie/media/ittraining/msoffice/MOAC_Word_2016_Core.pdf

PATTERN OF ASSESSMENT

Only Internal Assessment

Total of component I and component II will be taken as internal assessment

Other Component:

Total Marks: 50

CRITERION	Knowledge Level	Marks
Preparing a detailed report for a College Event	K1-K3	25
Creating a presentation on the chosen topic and including data from the report appropriately	K1-K3	25
Total		50

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SYLLABUS
(Effective from the academic year 2023 – 2024)

INTRODUCTION TO DATA ANALYSIS

CODE:23CS/GE/DA22

CREDITS:2

L T P:1 0 1

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To recognize different types of data and understand the implications of data type for subsequent analyses
- To understand the various data collection tools and techniques
- To apply predictive data analysis to draw the relationships between data

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	relate the different types of data exists in real world	K1
CO2	compare various tools and techniques for collecting data	K2
CO3	experiment with data collected using predictive data analysis to derive conclusions	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Fundamentals of Data Analysis Purpose of Data Analysis- Different Types of Data- Quantitative and Qualitative Data- Numerical, Categorical- Sources of Data -Primary and Secondary 1.2 Data Collection Steps, Tools and Techniques of Data Collection - Data layout- Coding - Entering data	K1, K2	8	1,2
2	2.1 Data Cleaning Checking for errors- Spell Checking, removing duplicate rows, fixing numbers and signs, fixing dates and times, merging and splitting columns, transforming and rearranging columns and rows, reconciling table data by joining or matching. 2.2 Importing Data Importing Text or Microsoft Word Data into Excel- Importing Data from the Web into Excel- Validating Data. 2.3 Summarizing data Summarizing Data with Histograms- Summarizing Data with Descriptive Statistics- Using PivotTables to Describe Data- Summarizing Data with Database Statistical Functions	K1-K3	9	1-3

UNIT	CONTENT	CL	HRS	CO
3	3.1 Predictive Data Analysis Sensitivity Analysis with Data Tables -Filtering Data- Consolidating Data -Using Correlations to Summarise Relationships - Incorporating Qualitative Factors into Multiple Regression Functions- Analysis of Variance: One-Way ANOVA - Randomised Blocks and Two-Way ANOVA- Software Tools	K1-K3	9	1-3

BOOKS FOR STUDY

Saunders, Mark, Philip Lewis and Adrian Thornhill. *Research methods for business students*. 5th ed. Pearson. (Chapters 12 & 13)

Winston, Wayne, L. *Microsoft Excel Data Analysis and Business Modeling*. Microsoft Press, 2004. (Chapters 15, 38, 37, 35, 44, 46, 48, 49)

BOOKS FOR REFERENCE

Dey, Ian. *Qualitative data analysis: A User Friendly Guide for Social Scientists*. Taylor and Francis Group, 2005.

WEB RESOURCES

<http://nios.ac.in/media/documents/316courseE/E-JHA-31-10A.pdf>

http://en.wikibooks.org/wiki/Statistics/Different_Types_of_Data

<https://support.office.com/en-nz/article/Top-ten-ways-to-clean-your-data-2844b620-677c-47a7-ac3e-c2e157d1db19>

<https://www.proschoolonline.com/blog/top-10-data-analytics-tools/>

<http://scholarworks.lib.csusb.edu/cgi/viewcontent.cgi?article=1032&context=etd>

PATTERN OF ASSESSMENT

Only Internal Assessment

Total of component I and component II will be taken as internal assessment

Other Component:

Total Marks: 50

CRITERION	Knowledge Level	Marks
Collecting, Cleaning, Validating and Summarizing Data	K1-K3	25
Predictive analysis with the data	K1-K3	25
	Total	50

BACHELOR OF COMPUTER APPLICATION

SYLLABUS

(Effective from the academic year 2023-2024)

BLOCKCHAIN

CODE:23CS/UI/BC23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To acquire knowledge on different types of software system architecture and cryptography tools used in block chain
- To understand the components and the working of block chain
- To learn about the various attacks in block chain

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- explain the various essential concepts for block chain
- describe the working of block chain and the types of block chain
- identify the limitations and attacks in block chain

Unit 1

1.1 Essential concepts for block chain

Types of software system architecture: centralized, decentralized, distributed, peer-to- peer cryptography - private key, public key, hash function, digital signature

Unit 2

2.1 Introduction to block chain

Block chain - difference between databases and block chain - benefits of block chain – distributed ledger - components of block chain: node, transaction, block, chain, miners, consensus protocol - working of block chain – permissioned and permission-less model - types of block chain: public, private, hybrid, consortium

Unit 3

3.1 Consensus algorithm

Consensus, distributed consensus, consensus in synchronous and asynchronous systems, Proof of Work (PoW) protocol - byzantine general problem - fault tolerance - attacks: double spending, Sybil, Denial of Service (DoS)

Unit 4

4.1 Limitations of block chain

Lack of privacy - security model - limited scalability - high costs - hidden centrality – lack of flexibility - critical size

4.2 Use cases of block chain

Government sector – health – Internet of things – education – financial

Unit 5

Cryptocurrency and Bitcoin

Bitcoin benefits and drawbacks – Working of bitcoin – Bitcoin transactions –
Constructing a transaction - Bitcoin mining – Bitcoin security principles – User security
best practices

BOOKS FOR REFERENCE

Drescher, D. (2017). Blockchain Basics: A Non-Technical Introduction in 25 Steps.

Mastering Blockchain - Imar Bashir - Second edition - Packt - 2018.

Antonopoulos, Mastering Bitcoin : Unlocking Digital Cryptocurrencies.

WEB RESOURCES

<https://www.javatpoint.com/blockchain-tutorial>

<https://www.geeksforgeeks.org/how-does-the-blockchain-work/>

<https://www.knowledgehut.com/blog/blockchain/types-of-blockchain#what%20is-blockchain?>

PATTERN OF ASSESSMENT:

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A - 20 x 1 = 20 marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B – 5 x 2 = 10 marks (Answer all the questions)

(1 question from each unit)

Section C - 8 x 5 = 40 marks (8 out of 10)

(2 questions from each unit)

Section D - 3 x 10 = 30 marks (3 out of 5)

(1 question from each unit)

*Equal weightage to be given to all Units

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF COMPUTER APPLICATIONS

SYLLABUS

(Effective from the academic year 2023-2024)

DIGITAL MARKETING

CODE:23CS/UI/DM23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To acquire knowledge about Digital Marketing and its strategies
- To be able to create a content for the business digitally and channel promotions
- To identify the customer's experience and types of medias available
- To recognize the importance of different kinds of social media marketing
- To analyze data metrics for success

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Understands different digital marketing strategies
- Develop contents for various Digital Media Available
- Analyze B2B audience, Millennials and social media marketing
- Importance of keyword search, link building and channel promotions
- Classify and compare various SEO Tools

Unit 1

1.1 Creating digital marketing Strategy

Introduction to digital marketing – Types of digital marketing - Understanding the components of digital marketing strategy - communicating the mission- Establishing the goals - Expanding corporate mindset

1.2 Content creation

Creating content plan – Evaluating the content – Assessing content – visualizing sites – creating plan – focusing on specialized content.

Unit 2

2.1 Interaction with customer data

Understanding Big Data – Role of Big Data in content Marketing – Discovering the Internet of Things – Visualizing Big Data – Discovering a business model and brand – Analysing business model – Discovering brand - Solidifying the look of the brand – Developing success measures.

2.2 Understanding the customer's intent

Dynamics of content marketing - Path to perfect content marketing – Understanding the marketing funnel – Segmenting the marketing with content – Executing perfect content marketing – Distributing the content to attract the audience – Story telling to engage the audience – Structuring the contents using stories.

Unit 3

3.1 B2B Audience and Millennials

Targeting the content for B2B Audience – creating content library – Humanizing the content – Reaching through technology – Looking at the Influence of Millennials - Understanding the marketer's perception of Millennials.

3.2 Identifying Media

Understanding the types of media – Utilizing paid media - Championing Earned media – Enhancing shared media – Amplifying owned media.

Unit 4

4.1 Email Marketing

Understanding Marketing Emails - Sending Broadcast and Triggered Emails - Building a Promotional Calendar - Creating Email Campaigns - Writing and Designing Effective Emails - Getting More Clicks and Opens - Ensuring Email Deliverability.

4.2 Social Media Marketing

Creating a Facebook Marketing Plan – Understanding Facebook Audience - Defining Marketing Goals - Developing Content Strategy - Encouraging Audience Engagement - The Value of Instagram - Getting Set-Up and Creating a Plan - Gaining Traction for the Channel - Growing the Audience – Best Practices, Tips, and Tricks - Instagram Live, Stories, and More - Integrating Instagram with Larger Marketing Strategy – Monetization- Case study on developing Instagram page for marketing campaign

Unit 5

5.1 Search Engine Optimization

Introduction to SEO - Keyword research - On-page SEO - Link building - Social media & SEO - SEO for Local Business - Dominating search with Rich Result - Use of Structured Data and JSON-LD – Voice search SEO and Speakable structured Data - Powerful SEO Tools

BOOKS FOR STUDY

Stephanie Diamond, Digital Marketing All-in-one for dummies, A Wiley Brand, 6th Edition. Ebook on Instagram Marketing Secrets.

Clarke, Adam. SEO 2022 Learn Search Engine Optimization with Dmart Internet Marketing Strategies: Learn SEO with Smart Internet Marketing Strategies. Simple Effectiveness Publishing, 2020.

BOOKS FOR REFERENCE

Ryan Deiss, Russ Henneberry, Digital Marketing All-in-one for dummies, A Wiley Brand, Damian Ryan & Calvin Jones, Understanding Digital Marketing, 2009.

McDonald, Jason. Social Media Marketing Workbook 2022. 2022.

Ryan, Damian. Understanding digital marketing: A complete guide to engaging customers and implementing successful digital campaigns. Kogan Page Publishers, 2020.

WEB RESOURCES

<https://www.udemy.com/course/free-digital-marketing-basics-course/>

<https://www.mygreatlearning.com/academy/learn-for-free/courses/introduction-to-digital-marketing>

<https://www.simplilearn.com/free-digital-marketing-basics-course-skillup>

PATTERN OF ASSESSMENT:

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section A - $20 \times 1 = 20$ marks (Answer all the questions)

(10 Multiple choice questions and 10 Fill-in the Blanks)

Section B - $5 \times 2 = 10$ marks (Answer all the questions)

(1 question from each unit)

Section C - $8 \times 5 = 40$ marks (8 out of 10)

(2 questions from each unit)

Section D - $3 \times 10 = 30$ marks (3 out of 5)

(1 question from each unit)

*Equal weightage to be given to all Units



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

**B.Sc. DEGREE
PSYCHOLOGY
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

**SYLLABUS
(Effective from the academic year 2023 – 2024)**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF PSYCHOLOGY

PROGRAMME DESCRIPTION

The Bachelor's programme will place emphasis on the genetic, physical, physiological, sensory, cognitive, temperamental and social components that mediate the study of human behaviour. The course covers topics such as developmental psychology, basic psychology, social psychology, biological psychology, research methods and statistics, counselling psychology, abnormal psychology, experimental psychology, rehabilitation psychology, psychological testing, applied psychology and organizational psychology. Students will explore these topics through lectures, assignments, audio-visual teaching aids and laboratory practices. By the end of the programme, students will be able to effectively apply theoretical knowledge in different domains of psychological practice.

VISION OF THE DEPARTMENT

To create an inclusive, integrated and healthy community that facilitates in building an empathetic, humane and empowered society

MISSION OF THE DEPARTMENT

Maximize individual potential by equipping every student with the knowledge of Psychology thereby bringing about holistic growth of self and transforming them into ambassadors for social intervention

TELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF PSYCHOLOGY

PROGRAMME SPECIFIC OUTCOMES

On successful completion of the B.Sc. Psychology Programme, the students will be able to

PSO 1	evaluate various concepts, theories and approaches in psychology and be able to apply the same in professional contexts
PSO 2	apply a biological, sociological and psychological lens to understanding human behavior
PSO 3	accurately diagnose psychological disorders and identify the appropriate etiology and treatment method for physical and mental disabilities as well as proficiency in psychological assessments
PSO 4	interpret research findings, formulate a research study and carry out a research project using appropriate methodology, and display report writing skills
PSO 5	communicate effectively, think critically, display sound ethical judgements and practice in line with the discipline's code of ethics that inculcates empathy, non-judgmental behavior and sensitivity towards people from marginalized sociocultural backgrounds

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Sc. Psychology 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	4	5	3	4	4	5	4	5	5	6	5	6	25	31
Major Core	4	5	4	5	4	5			4	5	5	6	21	26
											4	5	4	5
Major Core Practical							5	7	5	7			10	14
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	112
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library		1		1						1		2	0	5
Mentoring		1								1		1	0	3
											Total		4	10
Total	25	30	26	30	26	30	25	30	23	30	24	30	149	180

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE:PSYCHOLOGY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-I									
23PY/MC/GP14	General Psychology I	4	4	1	0	3	50	50	100
23PY/MC/BP14	Biological Psychology I	4	4	1	0	3	50	50	100
23PY/AC/SP15	Social Psychology I	5	5	0	0	3	50	50	100
23PY/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
SEMESTER-II									
23PY/MC/GP24	General Psychology II	4	4	1	0	3	50	50	100
23PY/MC/BP23	Biological Psychology II	3	3	1	0	3	50	50	100
23PY/AC/SP25	Social Psychology II	5	5	0	0	3	50	50	100
23PY/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23EL/SS/PD13	Life Skills:Personality Development	3	3	0	0	-	50	-	100
	General Elective I / Basic Tamil I								
SEMESTER-III									
23PY/MC/DP34	Developmental Psychology I	4	4	1	0	3	50	50	100
23PY/MC/RM34	Introduction to Research Methodology	4	4	1	0	3	50	50	100
23PY/AC/ST35	Statistics in Psychology	5	5	0	0	3	50	50	100
23PY/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD / ET / SC	Value Education								
	General Elective II / Basic Tamil II								
SEMESTER-IV									
23PY/MC/DP44	Developmental Psychology II	4	4	1	0	3	50	50	100
23PY/MC/EP45	Experimental Psychology Practical	5	3	0	4	3	50	50	100
23PY/AC/TP45	Theories of Personality	5	5	0	0	3	50	50	100
	Major Elective I								
SEMESTER-V									
23PY/MC/AB55	Abnormal Psychology I	5	5	1	0	3	50	50	100
23PY/MC/AP54	Applied Psychology	4	4	1	0	3	50	50	100
23PY/MC/PA55	Psychological Assessment Practical	5	3	0	4	3	50	50	100
	General Elective III								
	SAP / SL								
Interdisciplinary Core (PY and CE) to students of Psychology&Eng. and Commun. Skills									
23ID/IC/LP55	Literature and Psychology	5	5	1	0	3	50	50	100
Interdisciplinary Core (CS and PY) to students of Computer Science									
23ID/IC/HC55	Human Computer Interaction	5	5	1	0	3	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.Sc. DEGREE:PSYCHOLOGY

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER-VI									
23PY/MC/AB65	Abnormal Psychology II	5	5	1	0	3	50	50	100
23PY/MC/CP64	Counselling Psychology	4	4	1	0	3	50	50	100
23PY/MC/RP65	Rehabilitation Psychology	5	5	1	0	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	General Elective IV								
	Major Elective II								
Major Electives									
23PY/ME/CY45	Consumer Psychology	5	5	0	0	3	50	50	100
23PY/ME/OP45	Organisational Psychology	5	5	0	0	3	50	50	100
23PY/ME/HP45	Health Psychology	5	5	0	0	3	50	50	100
23PY/ME/IP45	Indigenous Psychology	5	5	0	0	3	50	50	100
23PY/ME/PR45	Project	5	1	0	4	-	50	50	100
General Electives									
23PY/GE/HB22	Fundamentals of Human Behaviour	2	2	0	0	-	50	-	100
23PY/GE/BC22	Basic Skills in Counselling	2	2	0	0	-	50	-	100
23PY/GE/SB22	Introduction to Social Behaviour	2	2	0	0	-	50	-	100
23PY/GE/IR22	Interpersonal Relationship	2	2	0	0	-	50	-	100
23PY/GE/IG22	Introduction to Gender and Sexuality	2	2	0	0	-	50	-	100
23PY/GE/AD22	Psychology of Adolescence	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23PY/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23PY/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23PY/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23PY/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23PY/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23PY/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23PY/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23PY/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23PY/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Independent Elective Courses									
23PY/UI/PC23	Psychology Classics	3	0	0	0	-	-	100	100
23PY/UI/PE23	Personality Enrichment	3	0	0	0	-	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086**DEPARTMENT OF PSYCHOLOGY****COURSES OF STUDY****(Effective from the academic year 2019-2020)****CHOICE BASED CREDIT SYSTEM**

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Allied Core Offered to the Department of Sociology									
19PY/AC/FS25	Fundamentals of Social Psychology	5	5	0	0	3	50	50	100
Allied Core Offered to the Department of Economics									
19PY/AC/FC35	Fundamentals of Consumer Behaviour	5	5	0	0	3	50	50	100
General Elective Courses									
19PY/GE/HB22	Fundamentals of Human Behaviour	2	2	0	0	-	50	-	100
19PY/GE/BC22	Basic Skills in Counselling	2	2	0	0	-	50	-	100
19PY/GE/PP22	Principles of Psychology	2	2	0	0	-	50	-	100
19PY/GE/GS22	Gender and Sexuality	2	2	0	0	-	50	-	100
19PY/GE/AD22	Psychology of Adolescence	2	2	0	0	-	50	-	100
19PY/GE/SB22	Introduction to Social Behaviour	2	2	0	0	-	50	-	100
Postgraduate Elective Courses									
19PY/PE/PE23	Personal Effectiveness	3	0	0	3	-	50	50	100
19PY/PE/PW23	Psychology of Well-being	3	0	0	3	-	50	50	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

GENERAL PSYCHOLOGY- I

CODE: 23PY/MC/GP14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To illustrate the different schools, subfields and possible careers in psychology
- To distinguish between the processes involved in sensation and perception
- To analyze the biological processes underlying consciousness and distinguish between the levels of consciousness
- To compare and contrast the different theories of learning and demonstrate their practical applications
- To classify the types and processes of memory and recommend techniques to improve memory

COURSE LEARNING OUTCOMES

On successful completion of the course, student will be able to:

COs	DESCRIPTION	CL
CO1	define the basic concepts in psychology	K1
CO2	describe the processes underlying the human mind	K2
CO3	apply the understanding of human behavior in everyday life	K3
CO4	correlate the theoretical frameworks which form the basis of psychology	K4
CO5	critique the various approaches and perspectives of psychology	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition of Psychology 1.2 Psychology as a science: Research methods of Psychology 1.3 Different schools of Psychology and modern perspectives of Psychology 1.4 Scope and branches of Psychology	K1- K5	10	1-5
2	Sensation and Perception 2.1 Sensation: Basic concepts and processes in sensation 2.2 Types of senses- visual, auditory, olfactory, vestibular and kinesthetic. 2.3 Sensory adaptation, habituation and integration of senses 2.4 Perception- basic concepts, learning, set, motivation and emotion; figure ground separation. 2.5 Different processes of perception- laws of organization, depth perception, constancy of perception, perception of movement	K1- K5	14	1-5

UNIT	CONTENT	CL	HRS	CO
3	Consciousness 3.1 Fundamental Process, nature of consciousness 3.2 Variations in levels of consciousness and brain activity 3.3 Sleep and dreams: Stages of sleep and sleep disorders 3.4 Dreams: theory of dreams 3.5 Meditation, Hypnosis, psi phenomena 3.6 Psychoactive drugs	K1- K5	13	1-5
4	Learning 4.1 Definition of learning 4.2 Classical conditioning – Theories, extinction, spontaneous recovery, stimulus generalization and discrimination, significance of classical conditioning 4.3 Operant conditioning- Reinforcers and punishers, schedules of reinforcement, significance of punishment, shaping, stimulus generalization and discrimination, escape learning and avoidance learning, significance of operant conditioning 4.4 Cognitive Learning – Latent learning, insight learning, imitation 4.5 Social Learning – Modelling, characteristics of the modeling situation, processes of observational learning	K1- K5	14	1-5
5	Memory 5.1 Meaning and Stages of memory 5.2 Atkinson and Shiffrin Model: sensory, short-term, long term memory 5.3 Levels of processing theories 5.4 Long term memory-organizations and process 5.4.1 Organization of long term memory 5.4.2 Encoding and storing long term memories 5.4.3 Retrieval from long term memory 5.5 Forgetting- Motivated forgetting, Interference, amnesia 5.6 Techniques of improving memory	K1- K5	14	1-5

BOOKS FOR STUDY

Baron, Robert A, and Girishwar Misra. *Psychology*. 5th ed., Chennai, Pearson, 2015.

Morgan, Clifford T, et al., *Introduction to Psychology*. 7th ed., Noida, McGraw Hill Education, 2017.

Ciccarelli, Saundra K., and J Noland White. *Psychology*. 5th ed., Chennai, Pearson, 2017.

BOOKS FOR REFERENCE

Feldman, Robert S. *Understanding Psychology*. 15th ed., Noida, McGraw Hill, 2021.

Kalat, James W. *Introduction to psychology*. 10th ed., Belmont, Wadsworth Publishing Co Inc, 2013.

Myers, David G and C. Nathan Dewall. *Psychology*. 3rd ed., Belper, Worth Publishers, 2020.

King, Laura. *Experience Psychology*. 4th ed., Noida, McGraw Hill Education, 2018.

Atkinson, Rita L., et al. *Introduction to psychology*. 16th ed., Delhi, Cengage India Private Limited, 2015.

WEB RESOURCES

<http://bit.ly/3pINrPs>

<https://bit.ly/3NOI2zx>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/GP14												
I	Course Title: General Psychology I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	2	2	3	3	3	2	3	3
CO 2	3	3	3	3	3	2	2	3	3	3	2	3	3
CO 3	3	3	3	3	3	3	3	3	3	3	2	3	3
CO 4	3	3	3	3	2	3	2	2	3	3	2	2	2
CO 5	3	3	3	3	3	2	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

BIOLOGICAL PSYCHOLOGY I

CODE: 23PY/MC/BP14

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To explain the physiological basis of behavior
- To describe the structure and functioning of the nervous system
- To summarize the activities of nerve cells
- To discuss the properties and transmissions of synapses
- To display an understanding of the various research methods within the realm of biological psychology

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	Description	CL
CO1	recall the anatomy of the nervous system	K1
CO2	infer the neurobiological underpinnings of behavior	K2
CO3	relate the learning to career opportunities and research	K3
CO4	outline the operations of the brain	K4
CO5	assess appropriate neurological functions connected to human behaviours	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Biopsychology as a neuroscience 1.1 Definition of Biopsychology 1.2 Biological approach to behaviour 1.2.1 Biological explanations of behaviour 1.2.2 Career Opportunities 1.3 Genetics and Behavior 1.3.1 Mendelian Genetics 1.3.2 Heredity and Environment 1.3.3 The Evolution of Behavior	K1-K5	13	1- 5

UNIT	CONTENT	CL	HRS	CO
	1.4 The Use of Animals in Research 1.4.1 Reasons for Animal Research 1.4.2 The Ethical Debate			
2	Nervous system 2.1 Structure of the Vertebrate Nervous System 2.1.1 The Spinal Cord 2.1.2 The Autonomic Nervous System 2.1.3 The Hindbrain 2.1.4 The Midbrain 2.1.5 The Forebrain 2.2 The Ventricles	K1-K5	10	1- 5
3	3.1 The Cerebral Cortex 3.1.1 Organization of the Cerebral Cortex 3.1.2 The Occipital Lobe 3.1.3 The Parietal Lobe 3.1.4 The Temporal Lobe 3.1.5 The Frontal Lobe 3.1.6 Functioning of the Cerebral Cortex 3.2 Brain Anatomy and Behaviour 3.2.1 Effects of Brain Stimulation 3.2.2 Recording Brain Activity 3.2.3 Correlating Brain Anatomy with Behavior	K1-K5	12	1- 5
4	Nerve Cells and Nerve Impulses 4.1 The Cells of the Nervous System 4.1.1 Anatomy of Neurons and Glia 4.1.2 The Blood–Brain Barrier 4.1.3 Nourishment in Vertebrate Neurons 4.2 The Nerve Impulse 4.2.1 The Resting Potential of the Neuron 4.2.2 The Action Potential 4.2.3 Propagation of the Action Potential 4.2.4 The Myelin Sheath and Saltatory Conduction 4.2.5 Local Neurons	K1-K5	15	1- 5
5	Synapses and Synaptic transmission 5.1 The Concept of the Synapse 5.1.1 The Properties of Synapses 5.1.2 Relationship among EPSP, IPSP, and Action Potentials 5.1.3 Chemical Events at the Synapse 5.1.4 The Discovery of Chemical Transmission at Synapses	K1-K5	15	1- 5

UNIT	CONTENT	CL	HRS	CO
	5.1.5 The Sequence of Chemical Events at a Synapse 5.2 Role of Neurotransmitters			

BOOKS FOR STUDY

Carlson, Neil R. *Foundations of Physiological Psychology*. 6th ed., Boston, Pearson Education, 2007.

Kalat, James W. *Biological Psychology*. 11th ed., New Delhi, Cengage Learning, 2012.

BOOKS FOR REFERENCE

Pinel, John P. *Biopsychology*. 6th ed. Boston, Pearson Education, 2009.

Rosenzweig, Mark R, et al. *Biological psychology*. 3rd ed., United States, Sunderland: Sinauer Associates Inc, 2002.

WEB RESOURCES

<https://bit.ly/3JOpv3V>

<https://bit.ly/3NQG9B8>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/BP14												
I	Course Title: Biological Psychology I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	2	2	2	2	2	2	2	3	2	3
CO 2	3	3	2	2	3	2	3	3	3	3	3	2	3
CO 3	3	3	2	2	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	2	3	3	3	3	2	3	3	2	3
CO 5	3	3	2	2	2	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL PSYCHOLOGY I

CODE: 23PY/AC/SP15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the basic concepts of Social Psychology
- To infer the perceptual processes of self and others
- To familiarize students on how attitudes can be formed and changed
- To demonstrate an understanding of social influence and its related factors
- To communicate the dynamics of interpersonal attraction and prosocial behavior

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to

COs	Description	CL
CO1	identify the aspects of social psychology in real life	K1
CO2	understand and associate the theories related to social behavior	K2
CO3	apply knowledge of social dynamics to interpersonal relationships	K3
CO4	distinguish between the diverse facets of social behavior	K4
CO5	deconstruct attitudes, perspectives and behaviours towards others in everyday contexts	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Social Psychology: 1.1 Meaning and Definition of Social Psychology 1.2 Nature of Social Psychology 1.3 Scope of Social Psychology 1.4 Research methods in social psychology	K1- K5	13	1-5
2	Social Perception 2.1 Definition of Self-concept: self- image, self-esteem, self- presentation 2.2 Impression Formation and Impression Management 2.3 Attribution- Meaning and definition 2.4 Theories of attribution; attribution errors	K1- K5	13	1-5
3	Attitude 3.1 Nature and Formation of Attitudes	K1- K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
	3.2 Theories of attitude change-Cognitive dissonance theory, Reinforcement theory and Balance theory 3.3 Persuasion- meaning and definition 3.3.1 Paths leading to persuasion- the central route and the peripheral rout 3.3.2 Persuasive elements- Communicator, Message, Audience 3.3.3 Cognitive processes underlying persuasion 3.4 Resistance to Persuasion			
4	Conformity 4.1 Definition of Conformity 4.2 Factors influencing conformity 4.3 Classic studies- Sheriff, Asch, Milgram's obedience studies 4.4 Resisting Social Pressure	K1- K5	13	1-5
5	Interpersonal Attraction and Altruism 5.1 The Beginning of Attraction: Proximity, physical attraction, similarity, the need to affiliate. 5.2 Theories of interpersonal attraction- Sternberg's love triangle, learning and cognitive theory 5.3 Altruism, Prosocial Behaviour: meaning and definition 5.4 Internal and external influences on decision to help 5.4.1 Increasing helping Behaviour	K1- K5	13	1-5

BOOKS FOR STUDY

Branscombe, Nyla R., and Robert A Baron. *Social Psychology*. 14th ed., England: Pearson Education Limited, 2017.

Myers, David G., and Jean M Twenge. *Social Psychology*. 13th ed., New York., McGraw Hill Education, 2021.

BOOKS FOR REFERENCE

Fiske, Susan T., et al. *Handbook of Social Psychology*, Volume 1. 5th ed., New York., John Wiley & Sons, 2010.

Gruman, Jamie A., et al. *Applied Social Psychology: Understanding and Addressing Social and Practical Problems*. 3rd ed., Los Angeles., SAGE Publications, 2017.

Singh, Arun Kumar. *Social Psychology*. 2nd ed., Patna., PHI Learning Pvt., 2019.

WEB RESOURCES

<http://bitly.ws/9GQy>

<http://bitly.ws/L2zF>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23PY/AC/SP15												
I	Course Title: Social Psychology I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	3	3	2	3	2	3	3	3
CO 2	3	3	3	3	2	3	3	3	3	2	1	2	3
CO 3	3	3	3	3	3	3	3	3	3	3	2	3	3
CO 4	3	3	3	3	3	3	3	3	3	3	2	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. / BSW Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23PY/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage, 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group Discussions
Group Presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

GENERAL PSYCHOLOGY II

CODE: 23PY/MC/GP24

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart knowledge of cognitive processes like thinking, reasoning and language
- To help evaluate and critique the different theoretical conceptualizations of intelligence
- To help students interpret the role of motivation with respect to human behaviour
- To enhance skills to discern the influences of motivation and emotion through the various theories
- To enable an understanding of personality approaches and assessments

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	describe the fundamental psychological processes and theories	K1
CO2	explain the concepts and principles of psychology	K2
CO3	apply psychological principles to everyday life	K3
CO4	analyze the expanded knowledge of various approaches in psychology	K4
CO5	evaluate logical and objective conclusions about behavior and mental processes	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Thinking, Reasoning and Language 1.1 Basic elements of thought-Concepts, propositions and images 1.2 Reasoning 1.3 Decision Making and Problem Solving - Trial and error, algorithms, heuristics (Representative & Availability. Working Backward, Subgoals), Insight, Problems with decision-making and problem solving (Functional Fixedness, Mental sets, Confirmation bias) 1.4 Language	K1- K5	10	1-5
2	Intelligence and Creativity 2.1 Definition and determinants of Intelligence	K1- K5	14	1-5

UNIT	CONTENT	CL	HRS	CO
	2.2 Theories of intelligence: Factor theories (Spearman's G factor, Thurstone's theory) and cognitive theories; assessment of intelligence 2.3 Recent trends in intelligence-multiple intelligence, emotional intelligence, social intelligence, environmental intelligence 2.4 Creative Thinking- insight in creative thinking, stages in creative thinking, nature of creative thinking and characteristics of creative thinkers.			
3	Motivation 3.1 Definition of Motivation, Motivation and Behavior 3.2 Theories of motivation – Instinct, Drive reduction, Arousal, Incentive, Cognitive, Humanistic approaches. 3.3 Types - Biological motives, Social motives 3.4 Frustration and conflict of motives	K1- K5	13	1-5
4	Emotion 4.1 Definitions of Emotions: Nature of emotions 4.2 Cognitive appraisal and emotion, Subjective experience and emotion, bodily Changes and emotion, facial expression and emotion 4.3 Theories of emotion – James Lange Theory, Cannon Bard Theory, Cognitive Theory 4.4 Assessment of Emotions- Management of emotions	K1- K5	14	1-5
5	Personality 5.1 Definition and Concept of Personality 5.2 Determinants of Personality 5.3 Overview of Approaches – Psychoanalytic approach, Behaviouristic approach, Cognitive approach, Humanistic approach 5.4 Assessment of Personality – Questionnaire, Rating Scales and Projective Tests	K1- K5	14	1-5

BOOKS FOR STUDY

Baron, Robert A, and Girishwar Misra. *Psychology*. 5th ed., Chennai, Pearson, 2015.
 Morgan, Clifford T, et al., *Introduction to Psychology*. 7th ed., Noida, McGraw Hill Education, 2017.
 Ciccarelli, Saundra K., and J. Noland White. *Psychology*. 5th ed., Chennai, Pearson, 2017.

BOOKS FOR REFERENCE

Feldman, Robert S. *Understanding Psychology*. 15th ed., Noida, McGraw Hill, 2021.
 Kalat, James W. *Introduction to psychology*. 10th ed., Belmont, Wadsworth Publishing Co Inc, 2013.
 Myers, David G and C. Nathan Dewall. *Psychology*. 3rd ed., Belper, Worth Publishers, 2020.
 King, Laura. *Experience Psychology*. 4th ed., Noida, McGraw Hill Education, 2018.
 Atkinson, Rita L., et al. *Introduction to psychology*. 16th ed., Delhi, Cengage India Private Limited, 2015.

WEB RESOURCES

<https://bit.ly/3LxgmXG>

<https://bit.ly/3tdNGmX>

<https://bit.ly/3POnAQu>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/GP24												
II	Course Title: General Psychology II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	3	3	3	3	3	1	3	2
CO 2	3	2	3	3	3	3	3	3	3	3	1	3	2
CO 3	3	3	3	3	3	3	3	3	3	3	1	2	2
CO 4	3	3	3	3	3	3	2	2	3	3	1	2	2
CO 5	3	3	3	3	3	3	3	3	3	2	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

BIOLOGICAL PSYCHOLOGY II

CODE: 23PY/MC/BP23

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To help students understand how the nervous system develops
- To impart knowledge on the biological basis for homeostasis
- To communicate about neuroanatomical underpinnings of human emotions
- To explain the influence of hormones on behavior
- To expound the biological rationale in psychological processes like learning and memory

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COS	DESCRIPTION	CL
CO1	recall the development of the nervous system	K1
CO2	infer the neurobiological underpinnings of behavior	K2
CO3	relate the learning to biological basis of human behavior	K3
CO4	outline the operations of learning, memory and emotions	K4
CO5	assess appropriate neurological functions connected to human behaviors	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Development of the nervous system 1.1 Phases of neurodevelopment 1.2 Postnatal development in Human Infants 1.3 Neuro-plasticity in adults 1.4 Disorders of Neurodevelopment – ASD, motor disorders.	K1-K5	10	1- 5
2	Homeostasis I: Biological basis of temperature regulation and sex 2.1 Homeostasis and Allostasis 2.2 Controlling body temperature- advantages of constant high body temperature, brain mechanisms and fever.	K1-K5	10	1- 5

UNIT	CONTENT	CL	HRS	CO
	2.3 Sex and hormones- organizing effects of sex hormones, activating effects of sex hormones, parental behavior. 2.4 Evolutionary interpretations of mating behavior.			
3	Homeostasis II: Biological basis of thirst and hunger 3.1 Mechanisms of water regulation 3.2 Osmotic thirst, hypovolemic thirst, sodium-specific hunger 3.3 Digestion and food selection 3.4 Brain mechanisms of hunger 3.5 Eating disorders	K1-K5	11	1- 5
4	Learning and memory 4.1 Localized representations of memory 4.2 Theories of the function of the hippocampus 4.3 Basal Ganglia, other brain areas in memory 4.4 Types of amnesia	K1-K5	11	1- 5
5	Biology of emotions 5.1 Emotions, autonomic arousal 5.2 Brain areas associated with emotions 5.3 Functions of emotions	K1-K5	10	1- 5

BOOKS FOR STUDY

Carlson, Neil R. *Foundations of Physiological Psychology*. 6th ed., New York, Pearson Education, 2007.

Kalat, James W. *Biological Psychology*. 11th ed., Belmont, Wadsworth, 2013.

BOOKS FOR REFERENCE

Pinel, John P.J. *Biopsychology*. 6th ed., Boston, Pearson Education, 2007.

Rosenzweig, Mark R., et al. *Biological Psychology*. 3rd ed., Sunderland, Sinauer Associates Inc, 2002.

WEB RESOURCES

bit.ly/3EPs8zA

bit.ly/3ZtDU5Y

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/BP23												
II	Course Title: Biological Psychology II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	3	3	1	2	1
CO 2	3	3	3	2	3	3	2	2	3	3	2	3	2
CO 3	3	3	3	2	2	3	2	3	3	3	2	3	2
CO 4	3	3	3	2	3	3	3	3	3	3	2	3	2
CO 5	3	3	3	2	3	3	3	3	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL PSYCHOLOGY II

CODE: 23PY/AC/SP25

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the basic processes of group dynamics
- To infer the types and determinants of aggressive behaviour
- To familiarize students on how prejudices are formed and maintained
- To demonstrate an understanding of the sources of conflicts and strategies for peace-making
- To communicate the application of social psychological concepts in a number of settings

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	identify the sources of individual and group processes	K1
CO2	explain the processes underlying certain social attitudes and behaviour	K2
CO3	relate the knowledge of social phenomena to individual functioning	K3
CO4	categorize various facets of social thought and behaviour	K4
CO5	evaluate strategies to manage individual attitudes and thoughts as well as group interrelations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Group Dynamics: 1.1 Meaning and Definition of Groups 1.2 Formation of groups 1.3 Social facilitation, Social loafing 1.4 Deindividuation 1.5 Group Polarization 1.6 Group think 1.7 Leadership	K1- K5	13	1-5
2	Aggression 2.1 Meaning and Definition of aggression 2.2 Types of Aggression 2.3 Theoretical Perspectives- Biological theories, Drive theories, Social learning theories, Frustration-aggression theory	K1- K5	12	1-5

UNIT	CONTENT	CL	HRS	CO
	2.4 Influence on aggression- Social determinants, Situational determinants 2.5 Management of aggression			
3	Prejudice 3.1 Meaning and definition of prejudice 3.2 The Nature of Prejudice 3.3 Sources of Prejudice- Social, cognitive, motivational sources 3.4 Features of prejudice- Discrimination, stereotypes, racism, sexism, ageism 3.5 Consequences of prejudice; methods to reduce prejudice	K1- K5	14	1-5
4	Conflict and Peace Making 4.1 Meaning and Definition of conflicts 4.2 Conflict: Social dilemmas, competition, perceived injustice, Misperception. 4.3 Conflict resolution – Concept and strategies 4.4 Peacemaking: meaning and definition 4.5 Strategies for peace: Contact, co-operation, communication, conciliation.	K1- K5	13	1-5
5	Application of Social Psychology: 5.1 Legal System 5.1.1 Effects of police procedures and media coverage 5.1.2 Eyewitness Testimony- Effects of judges and defendant 5.2 Social Psychology and the sustainable future 5.2.1 Psychology and climate change 5.2.2 Enabling sustainable living 5.3 Application of Social Psychology to Work Settings 5.3.1 Social Perception 5.3.2 Group Dynamics 5.3.3 Conflict in Work Settings 5.4 Applying Social Psychology in political behaviour 5.4.1 Causes of political behaviour, political attitudes and beliefs 5.4.2 Cognitive processes in deciding, role of groups, group identification and intergroup competition in political behaviour.	K1- K5	13	1-5

BOOKS FOR STUDY

Branscombe, Nyla R., and Robert A. Baron., *Social Psychology*. 14th ed., England, Pearson Education Limited, 2017.

Myers, David G., and Jean M. Twenge. *Social Psychology*. 13th ed., New York, McGraw Hill Education, 2021.

BOOKS FOR REFERENCE

Fiske, Susan T., et al. *Handbook of Social Psychology*, Volume 1. 5th ed., New York., John Wiley & Sons, 2010.

Gruman, Jamie A., et al. *Applied Social Psychology: Understanding and Addressing Social and Practical Problems*. 3rd ed., Los Angeles., SAGE Publications, 2017.

Singh, Arun Kumar. *Social Psychology*. 2nd ed., Patna., PHI Learning Pvt., 2019.

WEB RESOURCES

<https://bitly.ws/UrCN>

<https://bitly.ws/UrDG>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/AC/SP25												
II	Course Title: Social Psychology II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	3	3	3	3	2	1	3	3
CO 2	3	3	3	3	2	3	3	3	2	2	1	3	3
CO 3	3	3	3	3	2	3	3	3	2	2	1	3	3
CO 4	3	3	2	3	2	3	3	3	2	1	1	3	3
CO 5	3	3	2	3	1	3	3	3	2	1	1	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered for
B.A. / B.Sc. / B.Com. / BBA / B.C.A. / BSW Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23PY/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	Description	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K4	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50

List of Tasks

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

DEVELOPMENTAL PSYCHOLOGY I

CODE: 23PY/MC/DP34

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students distinguish between different theories of human development
- To enable students to illustrate the process of conception of life and its evolution through babyhood
- To aid students to associate and predict the consequences of play and parenting on early childhood development
- To guide students to infer the physical, cognitive and social factors impacting development in late childhood
- To help relate the developmental changes occurring in adolescence and break down the tasks pertaining to the stage

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	Description	CL
CO1	recall the facets of human development that occurs from prenatal stage to adolescence	K1
CO2	explain the different theories of development	K2
CO3	discuss the characteristics of development in relation to their personal actions and behaviour	K3
CO4	categorize changes in the physical, cognitive, and psychosocial aspects of development across the stages	K4
CO5	estimate the developmental goals and concerns humans experience till adolescence	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Human Development 1.1 Human Development through the Life Span 1.2 Psychosexual development (Freud) 1.3 Cognitive Development (Piaget) 1.4 Moral Development - Kohlberg 1.5 Psychosocial Development – Eric Erickson	K1- K5	13	1-5
2	Prenatal Development, Infancy and Babyhood 2.1 Conception: Fertilization, Heredity and Environment 2.2 Prenatal Development, Birth: stages, methods, and settings of childbirth. 2.3 Characteristics of infancy and babyhood,	K1- K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
	2.4 Physical and motor development in infancy and babyhood 2.5 Cognition and language development in infancy and babyhood 2.6 Psychosocial development- emotions, temperament, attachment 2.7 Hazards in infancy and babyhood			
3	Early Childhood 3.1 Characteristics of early childhood. 3.2 Physical and motor development in early childhood. 3.3 Cognition and language development in early childhood. 3.4 Play development in early childhood 3.5 Effect of parenting in early childhood 3.6 Hazards in early childhood.	K1- K5	13	1-5
4	Late childhood 4.1 Characteristics of late childhood 4.2 Physical and motor development in late childhood 4.3 Cognition and language development in late childhood 4.4 Family influence in late childhood 4.5 Peer group influence in late childhood 4.6 Hazards in late childhood	K1- K5	13	1-5
5	Adolescence 5.1 Characteristics of Adolescence, Developmental tasks of adolescence 5.2 Physical development- physical changes, physical and mental health 5.3 Cognitive development in adolescence 5.4 Psychosocial development- identity formation, family relationships, sex roles, relationship with peers, personality changes, children in conflict with the law.	K1- K5	13	1-5

BOOKS FOR STUDY

Santrock, John. *A Topical Approach to Life-Span Development*. 11th edition, Noida, McGraw-Hill Education, 2013.

Papalia, Diane, and Gabriela Martorell. *Human Development*. Noida, McGraw-Hill, Experience 2020.

Hurlock, Elizabeth Bergner. *Developmental Psychology*. 14th edition, Noida, McGraw-Hill Companies, 1974.

BOOKS FOR REFERENCE

Berk, Laura. and Adena B Meyers, *Child Development*. 10th edition, New Delhi, Pearson, 2018.

Santrock, John. *Adolescence*. 17th edition, Noida, McGraw-Hill Education, 2015.

Shaffer, David R., and Katherine Kipp. *Developmental Psychology: Childhood and Adolescence*. Delhi, Cengage Learning, 2013.

Slote, Michael. *Human Development and Human Life*. New York, Springer, 2016.

WEB RESOURCES

<https://shorturl.at/otwW7>

<https://shorturl.at/tzDJK>

<https://bit.ly/3ZsHMKK>

<https://shorturl.at/adjJW>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/DP34												
III	Course Title: Developmental Psychology I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	2	2	3	3	1	2	2
CO 2	3	3	3	3	3	3	2	2	3	3	1	2	2
CO 3	3	3	3	3	3	3	2	2	3	3	1	2	2
CO 4	3	3	3	3	3	3	2	2	3	3	1	2	2
CO 5	3	3	3	3	3	3	2	2	3	3	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO RESEARCH METHODOLOGY

CODE: 23PY/MC/RM34

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the basic concepts involved in the field of psychological research
- To equip students with the skills to undertake and complete mini-research studies of varied research designs
- To illustrate the various data collection techniques in the field of psychological research
- To impart students with the knowledge of various standardization procedures
- To train students to practice ethical values in research as outlined by the American Psychological Association

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	recollect the basic concepts in research	K1
CO2	outline the theoretical underpinnings underlying human behaviour in research	K2
CO3	demonstrate critical thinking skills in undertaking psychological research	K3
CO4	critique scientific literature and methodologies and analyse data in research	K4
CO5	appraise the use of qualitative and quantitative procedures and tools in research	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Research in Psychology 1.1 Definition and Meaning of Research 1.2 Methods of Knowing: Method of Tenacity, Intuition, Authority, Rational method, Empirical method and Scientific method 1.3 Characteristics and Objectives of Research	K1- K5	10	1-5

UNIT	CONTENT	CL	HRS	CO
	1.4 Types of Research: Descriptive vs. Analytical, Applied vs. Fundamental, Quantitative vs. Qualitative, Conceptual vs. Empirical, One-time vs. Longitudinal, Field-setting vs. Laboratory vs. Simulation research, Clinical research, Exploratory vs. Formalised, Historical research, Conclusion-oriented vs. Decision-oriented. 1.5 Significance and Criteria of Good Research			
2	Quantitative and Qualitative Research Process 2.1 Overview of the Research Process 2.2 Formulation, Selection, and Technique involved in defining Qualitative and Quantitative Research Problems 2.3 Constructs and Variables in Research 2.4 Hypothesis- types, procedure for hypothesis testing, types of errors, one-tailed and two-tailed tests. 2.5 Review of Literature 2.6 Sampling- steps, criteria, types of sampling designs- non-probability and probability sampling. 2.7 Research Designs 2.7.1 Exploratory design- survey of concerning literature, experience survey and analysis of insight-stimulating examples 2.7.2 Descriptive design 2.7.3 Experimental design – basic principles, informal experimental designs	K1- K5	14	1-5
3	Methods of Data Collection and Interpretation of Data 3.1 Sources of data – Primary and Secondary sources 3.2 Observation as a method of data collection 3.3 Interview as a method of data collection 3.4 Questionnaires and Surveys as a method of data collection 3.5 Case study as a method of data collection 3.6 Processing and Interpretation of Quantitative and Qualitative data	K1- K5	13	1-5
4	Measurement and Standardization in Research 4.1 Measurement in Research 4.2 Scales of Measurement 4.3 Reliability- test-retest, split half, parallel forms, inter-rater, and qualitative reliability	K1- K5	14	1-5

UNIT	CONTENT	CL	HRS	CO
	4.4 Validity- face, content, construct, criterion, internal, external and qualitative validity 4.5 Sources of error in measurement			
5	Writing formats and Ethics in Research 5.1 Quantitative and Qualitative Writing formats 5.2 American Psychological Association Guidelines - an overview 5.3 Ethical and Legal Considerations in Research: personal disclosure, debriefing, authenticity, and credibility of the research report; the role of researchers in cross-cultural contexts; and issues of personal privacy	K1- K5	14	1-5

BOOKS FOR STUDY

Creswell, John W, and J David Creswell. *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches*. Thousand Oaks, California, Sage, 2023.

Gravetter, Frederick J, and Lori-Ann B Forzano. *Research Methods for the Behavioral Sciences*. Chennai, Cengage Learning, 2020.

Kothari, C.R. *Research Methodology: Methods and Techniques*. New Delhi, New Age International, 2004.

BOOKS FOR REFERENCE

American Psychological Association. *Publication Manual of the American Psychological Association*. Washington DC, American Psychological Association, 2018.

Howitt, Dennis. *Introduction to Qualitative Research Methods in Psychology: Putting Theory into Practice*. Harlow, England Pearson, 2019.

Singh, Arun Kumar. *Tests, Measurements and Research Methods in Behavioural Sciences*. New Delhi, Tata Mcgraw-Hill, 1986.

WEB RESOURCES

<https://shorturl.at/hoQW7>

<https://rb.gy/xt9mi>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23PY/MC/RM34												
III	Course Title: Introduction to Research Methodology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	1	1	1	3	3	1	3	1
CO 2	3	2	3	3	1	1	2	1	3	3	3	3	1
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	1	3	3	3	3	3	3	3	3	3	3	3	3
CO 5	3	3	3	3	2	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

STATISTICS IN PSYCHOLOGY

CODE: 23PY/AC/ST35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the key concepts of statistics
- To familiarize students to various descriptive statistical methods used in Psychology
- To acquaint students with the basic elements of statistical testing
- To help students to distinguish between parametric and non-parametric test
- To enable students to understand the assumptions underlying different statistical techniques

COURSE LEARNING OUTCOMES

On successful completion of the course, student will be able to:

COs	DESCRIPTION	CL
CO1	describe fundamental concepts of statistics	K1
CO2	explain the practical relevance of statistical measures in analyzing and summarizing data	K2
CO3	apply statistical techniques to draw conclusions from data	K3
CO4	analyze and interpret statistical results	K4
CO5	evaluate the limitations and assumptions of different statistical methods	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Statistics 1.1 Meaning, need and importance of statistics in psychology 1.2 Functions and limitations of statistics 1.3 Organization of data 1.3.1 Coding, Tabulation and Classification of Data 1.3.2 Frequency Distributions- Discrete and continuous, Cumulative frequencies, Percentage frequencies 1.3.3 Graphical Representations- Bar Graph, Histogram, Pie Graph, Frequency Polygon 1.4 Introduction to descriptive and inferential statistical methods	K1- K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
2.	Measures of Central Tendency & Variability 2.1 Arithmetic & Weighted Mean, Median, Mode 2.2 Merits and demerits of the measures of central tendencies 2.3 Range, Quartile Deviation, Average Deviation, Standard Deviation, Coefficient of variation	K1-K5	16	1-5
3	Normal Distribution 3.1 Sampling distribution and standard error of means, z test 3.2 Characteristics of normal distributions 3.3 Applications of normal distribution 3.4 Measures of Divergence from normality- Kurtosis, Skewness	K1- K5	10	1-5
4	Parametric tests 4.1 Characteristics of parametric tests 4.2 Correlation- types of correlation, estimating correlation coefficient (Pearson's product moment) 4.3 t test- single sample t test, independent sample t test, paired samples t test 4.4 Theoretical foundations-F test*, ANOVA*	K1- K5	13	1-5
5	Non-parametric tests 5.1 Characteristics and assumptions of non-parametric distributions 5.2 Estimating Spearman's rank order correlation coefficient, chi square test 5.3 Theoretical foundations-Mann Whitney U test*, Sign test*	K1- K5	13	1-5

*These tests are for theoretical understanding only; not for computation.

BOOKS FOR STUDY

Gupta, S P. *Statistical Methods*. 46th Revised ed., New Delhi, Sultan Chand and Sons, 2021

Mangal, S K. *Statistics in Psychology and Education*. New Delhi, Prentice-Hall India Private Ltd, 2002.

Garrett, Henry E. *Statistics in Psychology and Education*. Guwahati, EBH Publishers, 2017.

BOOKS FOR REFERENCE

Aron, Arthur, et al. *Statistics for Psychology*. 6th ed., New Delhi, Pearson Education, 2019.

Gravetter, Frederick J, et al. *Essentials of Statistics for the Behavioral Sciences*. 9th ed., Chennai, Cengage Learning, 2013.

Levin, Jack, et al. *Elementary Statistics in Social Research*. 12th ed., New York, Pearson, 2013.

WEB RESOURCES

<https://shorturl.at/ruwNY>

<https://shorturl.at/glpS0>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

The distribution should be theory 60% and problems 40%.

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23PY/AC/ST35												
III	Course Title: Statistics in Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	1	2	1	1	3	2	3	3	2
CO 2	3	3	3	2	2	2	1	1	3	3	2	3	3
CO 3	3	3	3	2	2	3	1	1	3	3	3	3	3
CO 4	3	3	3	3	3	3	2	1	2	2	3	3	2
CO 5	3	3	3	3	2	2	2	2	3	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / BBA / B.C.A. / BSW / Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23PY/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group Discussions

Group Presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

DEVELOPMENTAL PSYCHOLOGY II

CODE: 23PY/MC/DP44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To impart a multicultural perspective on developmental concepts and processes
- To enable the students in understanding the various stages of adulthood development
- To aid in the application of theories to understand developmental conflicts and resolutions in adulthood
- To guide students to critically evaluate existing norms in adult human development
- To help relate the developmental changes occurring in adulthood and break down the tasks pertaining to the stage

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	define concepts, processes, and tasks of varying stages of adulthood	K1
CO2	discuss the different theories of development	K2
CO3	relate the various factors that influence overall development	K3
CO4	analyze changes in the physical, cognitive, and psychosocial aspects of development across the stages	K4
CO5	criticize the theories and existing research through a multicultural lens	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Early Adulthood 1.1 Characteristics of adulthood developmental task 1.2 Physical development 1.3 Health in adulthood, changes in interest in adulthood, social mobility, sex role adjustment 1.4 Personal and social hazards of adulthood, intellectual development 1.5 Vocational adjustment, marital adjustment, adjustment to parenthood	K1- K5	13	1-5
2	Middle Adulthood 2.1 Characteristics of middle age, developmental tasks 2.2 Physical changes, Sensory and Psychomotor functioning 2.3 Health in middle age 2.4 Cognitive development during middle adulthood	K1- K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
3	Middle Adulthood-Psychosocial Aspects 3.1 Personal and social hazards 3.2 Changes in interests, work in the middle age 3.3 Adjustment to changed family patterns, marital hazards of middle age 3.4 Relationship with maturing children and aging parents.	K1- K5	13	1-5
4	Late Adulthood 4.1 Characteristics of old age, developmental tasks 4.2 Physical development, sensory and psychomotor functioning, intellectual changes 4.3 Health in old age, social adjustment in old age 4.4 Physical hazards, psychological hazards, successful aging	K1- K5	13	1-5
5	Late Adulthood-Psychosocial Aspects 5.1 Lifestyle and social issues related to aging 5.2 Relationship with siblings, friends, adult children; family management of elder care 5.3 Adjustment to retirement, adjustment to single-hood, vocational and family hazards of old age, living arrangements for the elderly; 5.4 Death: facing death and loss, Kübler-Ross Model; Medical, legal, and ethical issues, Finding meaning and purpose in life and death	K1- K5	13	1-5

BOOKS FOR STUDY

Santrock, John. *A Topical Approach to Life-Span Development*. 11th edition, Noida, McGraw-Hill Education, 2023.

Papalia, Diane, and Gabriela Martorell, *Human Development*. 14th edition, Noida, McGraw-Hill Experience, 2020.

Hurlock, Elizabeth Bergner. *Developmental Psychology*. Noida, McGraw-Hill Companies, 1974.

BOOKS FOR REFERENCE

Shaffer, David R., and Katherine Kipp. *Developmental Psychology: Childhood and Adolescence*. Delhi, Cengage Learning, 2013.

Slote, Michael. *Human Development and Human Life*. New York, Springer, 2016.

Berk, Laura E. *Development through the life style*. 7th edition, Thousand Oaks, California, SAGE Publication Inc., 2022.

WEB RESOURCES

<https://bit.ly/3PtDWwv>
<https://bit.ly/456ljVg>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/DP44												
IV	Course Title: Developmental Psychology II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	2	2	3	3	1	2	3
CO 2	3	3	3	3	2	3	2	3	3	3	1	2	3
CO 3	3	3	3	3	3	3	3	3	3	3	2	3	3
CO 4	3	3	2	3	3	3	2	2	3	3	2	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

EXPERIMENTAL PSYCHOLOGY PRACTICAL

CODE: 23PY/MC/EP45

CREDITS: 5

L T P: 3 0 4

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To enable students to understand the use of experiments in Psychology
- To acclimatize them to interpret and draw conclusions based on the norms given in the manual
- To aid the students in building competencies in conducting experiments and reporting the same
- To enable students to develop the skills required for various psychological experiments
- To facilitate students to write reports of experiments while adhering to APA conventions.

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	Description	CL
CO1	identify use of specific experiments appropriate to the requirements	K1
CO2	explain the experimental procedures in scientific testing	K2
CO3	apply the knowledge and skills acquired to use relevant and appropriate experiments based on the need	K3
CO4	analyze the data obtained from the psychological testing process	K4
CO5	assess the methodology of testing and synthesize the results and implications of the experiment	K5 & K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Ten Experiments to be conducted.

1	Distraction of Attention
2	Determination of two point threshold
3	Division of Attention
4	Span of Attention
5	Visual Acuity
6	Mapping of Blind Spot
7	Colour Blindness
8	Muller Lyer Illusion
9	Set in perception

10	Perception of Space in Depth
11	Perception of Size Constancy
12	Transfer of Learning - Habit Interference
13	Maze Learning
14	Knowledge of Results
15	Study of Learning by Insight
16	Proactive and Reactive Inhibition
17	Study of Bilateral Transfer
18	Concept Formation
19	Problem Solving
20	T Puzzle
21	Heart and Bow
22	Motor Learning
23	Manual Dexterity
24	Finger Dexterity
25	Steadiness Test
26	Minnesota Rate of Manipulation Test
27	Effect of meaning on memory
28	Triads test
29	Word Association Test
30	Muscular fatigue

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 3 hrs

Cognitive Level	Mark Allocation
K1 Aim Materials Required Plan & Procedure	10
K2 General Discussion	10
K3 Rapport and Conduction	10
K4 Individual Discussion	10
K5 Viva	5
K6 Interpretation & Conclusion	5

End-Semester Examination:**Total Marks: 50****Duration: 3 hrs**

Cognitive Level	Mark Allocation
K1 Aim Materials Required Plan & Procedure	10
K2 General Discussion	10
K3 Rapport and Conduction	10
K4 Individual Discussion	10
K5 Viva	5
K6 Interpretation & Conclusion	5

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/EP45												
IV	Course Title: Experimental Psychology Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	1	2	2	3	3	3	3	3
CO 2	3	3	3	2	2	3	2	2	3	3	3	2	3
CO 3	3	3	3	2	3	3	2	2	1	3	3	3	3
CO 4	3	3	3	2	3	3	2	2	2	3	3	3	3
CO 5	3	3	3	2	3	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

THEORIES OF PERSONALITY

CODE: 23PY/AC/TP45

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the different personality theories
- To familiarize students with psychoanalytic and neo psychoanalytic theories
- To aid the students in understanding the contributions of Indian philosophers to personality
- To help students appreciate the differences among theories
- To enable students to broaden their knowledge about trait and humanistic theories.

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	identify and list major theories of personality, including their key proponents and historical contexts	K1
CO2	elucidate the core principles and key concepts of the personality theories	K2
CO3	apply the concepts from various personality theories to interpret the behavior and characteristics of individuals in hypothetical scenarios	K3
CO4	evaluate and compare different personality theories.	K4
CO5	critically assess the strengths, weaknesses, and empirical support for the various theories of personality	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Personality Theories 1.1 Definition and meaning of personality 1.2 Meaning and definition of theory, Scientific Statements- Objective & Subjective data, operational definition 1.3 Personality in the history of psychology, Dimensions of personality 1.4 Application of Personality Theories-assessment, research and psychotherapy	K1-K5	12	1-5

UNIT	CONTENT	CL	HRS	CO
2	Psychoanalytic and Neo-psychoanalytic theories 2.1 Sigmund Freud-Structure, Psychosexual Stages, Defense Mechanisms, Assessment, Psychoanalysis 2.2 Carl Jung-Psychic Energy, The Ego, Psychological Types, Personal and Collective unconscious, Self-realization, Mid-life crisis, Assessment, Psychotherapy 2.3 Alfred Adler- Inferiority Feelings, Striving for superiority, Style of life, Social interest, Birth Order, Assessment, Adlerian Psychotherapy	K1-K5	15	1-5
3	Trait and Type Theories 3.1 Raymond Cattell- Approach to Personality Traits, Source Traits, Dynamic Traits, Influence of Heredity and Environment, Stages of Personality Development, 16PF 3.2 Hans Eysenck- Dimensions of Personality, Causal agents of behavior, application	K1-K5	13	1-5
4	Humanistic Theories 4.1 Carl Rogers- Actualization, The Self, Congruence and Incongruence, Development of Personality, Fully Functioning Person, psychotherapy 4.2 Abraham Maslow- Personality Development, Hierarchy of Needs, Study of Self-Actualizers	K1-K5	13	1-5
5	Other Theories 5.1 Hippocrates and Galen's initial conceptualizations of personality 5.2 Sheldon's theory of personality 5.3 Contributions of Indian Philosophers (Overview)-J. Krishnamurthy, Sri Aurobindo, Rajneesh (Osho)	K1-K5	12	1-5

BOOKS FOR STUDY

Engler, Barbara. *Personality Theories*. 9th ed., Belmont, Wadsworth, 2014.
 Schultz, Duane P, and Sydney Ellen Schultz. *Theories of Personality*. 11th ed., Singapore, Cengage Learning Asia Pte Ltd, 2017.
 Hall, Calvin S, et al. *Theories of Personality*. 4th ed., Noida, Wiley, 1998.
 Osho. *Joy*. USA, St. Martin's Griffin, 1 Apr. 2010.
 Krishnamurti, J. *Life Ahead : On Learning and the Search for Meaning*. Novato, New World Library , 2014.

BOOKS FOR REFERENCES

Feist, Jess, et al. *Theories of Personality*. 9th ed., New York, Mcgraw-Hill Education, 2021.
 Cervone, Daniel, and Lawrence A Pervin. *Personality: Theory and Research*. 14th ed., Hoboken, NJ, John Wiley & Sons, Inc, 2019.

WEB RESOURCES

<https://rb.gy/iwc8p>

<https://t.ly/k24fu>

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23PY/AC/TP45												
IV	Course Title: Theories of Personality												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	2	3	3	3	3	3	2	3
CO 2	3	3	3	3	3	2	3	3	3	3	3	1	3
CO 3	3	3	3	3	3	2	3	3	3	3	3	2	3
CO 4	3	3	3	3	2	2	2	3	3	3	3	2	2
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

ABNORMAL PSYCHOLOGY I

CODE: 23PY/MC/AB55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To help students identify the difference between adaptive and maladaptive behavior
- To guide the students in the diagnosis of disorders based on the clinical manifestation of anxiety symptoms using an appropriate classification system
- To explore the causal factors and treatment of mood disorders
- To demonstrate the importance of appropriate evidence-based approaches in treating and managing substance abuse disorder
- To impart knowledge on the theoretical approaches in understanding learning disorders

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define the basis of abnormal psychology and the differences between adaptive and maladaptive behavior.	K1
CO2	differentiate between major theoretical orientations in abnormal psychology.	K2
CO3	interpret maladaptive behavior using different theoretical perspectives.	K3
CO4	analyze the standards for the diagnosis and classification of major psychopathological conditions.	K4
CO5	recommend psychotherapeutic interventions for treating maladaptive behavior.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Abnormal Psychology 1.1 Psychological abnormality - definition of abnormal behavior 1.2 Historical views of abnormal behavior and its treatment, current perspectives of abnormality 1.3 Incidence of mental disorders. classification of mental disorders – International Classification of Diseases – 10 (ICD-10) and Diagnostic and Statistical Manual of Mental Disorders (DSM) – an overview 1.4 Humanitarian approach, contemporary views of abnormal behavior	K1- K5	17	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Anxiety and obsessive-compulsive related disorders 2.1 Anxiety disorders – generalized anxiety disorder, panic disorders 2.2 Phobias - specific phobias, social phobia 2.3 Biological, psychological and sociocultural factors causing anxiety disorders 2.4 Treatment of anxiety disorders 2.5 Obsessive-compulsive disorder- causes, diagnostic criteria, and treatment outcomes 2.6 Overview of intermittent explosive disorder, pyromania, kleptomania, gambling, excoriation disorder, trichotillomania	K1- K5	15	1-5
3	Mood Disorders 3.1 Mood disorders- unipolar mood disorders 3.2 Biological, psychological and socio-cultural factors causing unipolar mood disorders 3.3 Bipolar disorders 3.4 Biological, psychological and sociocultural factors causing bipolar disorders 3.5 Treatment and management	K1- K5	17	CO 1-5
4	Substance Related Disorders 4.1 Addiction disorders- alcohol abuse and dependence 4.2 Addiction disorders - drug abuse and drug dependence 4.3 Treatment and prevention	K1- K5	12	CO 1-5
5	Childhood and adolescence Disorders 5.1 Defiant and conduct disorder 5.2 Attention- deficit/hyperactivity disorders 5.3 Autism spectrum disorders 5.4 Childhood onset mental illness 5.5 Learning disabilities 5.6 Biological, psychological and sociocultural factors of causation 5.6 Treatment and management	K1- K5	17	CO 1-5

BOOKS FOR STUDY

Comer, Ronald J. *Fundamentals of Abnormal Psychology*. 9th ed., New York, Worth Publishers, 2009.

Durand, Vincent M., et al. *Abnormal Psychology*. 2nd ed., Pacific Grove, Thomson Brooks/Cole, 2000.

Sarason, Irwin G., et al. *Abnormal Psychology*. 11th ed., New Delhi, Prentice Hall, 2005.

BOOKS FOR REFERENCE

Carson, Robert C., John N. Butcher, et al., *Abnormal Psychology*. 13th ed., Delhi, Pearson Education, 2007.

Durand, Vincent M., et al., *Abnormal Psychology: An Integrative Approach*. 6th ed., Chennai, Wadsworth Cengage Learning, 2009.

WEB RESOURCES

<https://bit.ly/458Z15b>

<https://bit.ly/3FQdQiT>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23PY/MC/AB55												
V	Course Title: Abnormal Psychology I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	2	3	3	3	3
CO 2	3	3	2	2	3	2	2	2	2	2	3	3	3
CO 3	2	3	2	2	2	2	2	3	3	3	3	3	3
CO 4	2	3	3	2	3	2	3	3	2	2	3	3	3
CO 5	3	3	2	2	2	2	3	3	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023- 2024)

APPLIED PSYCHOLOGY

CODE: 23PY/MC/AP54

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To familiarize students with the many scopes of psychology
- To educate students on the implications of cognition and affective states on behaviour
- To expand and apply previous knowledge in new and relevant contexts
- To explore and interpret the interactions between individual and society
- To impart knowledge about diverse fields of applied psychology

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define concepts, theories, and careers related to human behaviour	K1
CO2	discuss psychological models in local, national and global levels of applied fields	K2
CO3	demonstrate knowledge of how theoretical foundations of psychology translate into practical applications	K3
CO4	dissect the interactions and experiences of individuals in diverse contexts from the lens of psychology	K4
CO5	evaluate the scope and roles of niche fields of applied psychology and their career prospects	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HS	CO
1	Introduction to Applied Psychology 1.1 Definition of Applied Psychology 1.2 Overview of subfields of applied psychology 1.3 Need for Applied Psychology 1.4 Comparative Psychology 1.4.1 Definition and History of comparative psychology in the origins of psychological science 1.4.2 Comparative Psychology: Behaviourism, Comparative psychopathology, Psychotherapy 1.4.3 Comparative Approach to Research and Practice	K1- K5	13	1-5
2	Sports Psychology 2.1 Meaning and Definition of Sports Psychology 2.2 Nature and Scope of Sports Psychology 2.3 Role of Sports Psychologists	K1- K5	13	1-5

UNIT	CONTENT	CL	HS	CO
	2.4 Personality characteristics, Motivational types and styles, Pathological Motivation, Aggression, Social factors in sports, Arousal and Anxiety in Performance			
3	Military Psychology 3.1 Meaning and Definition of Military Psychology 3.2 Nature and Scope of Military Psychology 3.3 Role of Military Psychologists: Fitness for duty evaluations, Behavioural medicine and Neuropsychology, Substance use, Suicide prevention, Combat stress 3.4 Brief Psychotherapy and Psychological interventions for Disaster and Trauma	K1- K5	13	1-5
4	Forensic Psychology 4.1 Meaning and Definition of Forensic Psychology 4.2 Nature of Forensic Psychology, Role of Forensic Psychologists 4.3 Police Psychology, Legal Psychology, Criminal Psychology, Victimology, Correctional Psychology 4.4 Profiling- Crime Scene profiling, Suspect-based profiling, Psychological Autopsy, Geographical and Psychological profiling	K1- K5	13	1-5
5	Educational Psychology 5.1 Meaning and Definition of Educational Psychology 5.2 Classroom Management and Learning Environment 5.3 Student Diversity- Individual styles of learning and thinking, Multiple intelligences, Gifted and talented students, Gender differences, Accommodating cultural diversity 5.4 Special Education- Overview of categories of disabilities, Responsibilities of teachers for students with disabilities	K1- K5	13	1-5

BOOKS FOR STUDY

Sharma, Ramnath. *Advanced Applied Psychology*. New Delhi, Atlantic, 2004.

Marston, Daniel C., and Terry L Maple. *Comparative Psychology for Clinical Psychologists and Therapists: What Animal Behavior Can Tell Us about Human Psychology*. London, Jessica Kingsley Publisher, 2016.

Jarvis, Matt. *Sport Psychology: A Student's Handbook*. 2nd ed., London, Routledge, 2006.

Kennedy, Carrie H., and Eric A Zilmer, editors. *Military Psychology: Clinical and Operational Applications*. New York, Guilford Press, 2006.

Sharma, Mansi. "Military Psychology-Need, Scope and Challenges. *The International Journal of Indian Psychology*, vol. 9, no. 2, Jun 2021, <https://doi.org/10.25215/0902.141>.

Bartol, Curt R., and Anne M Bartol. *Introduction to Forensic Psychology: Research and Application*. 6th ed., New Delhi, Sage Publications, 2021.

Seifert, Kelvin. *Educational Psychology*. 3rd ed., Scotts Valley, Createspace Independent Publishing Platform, 2015.

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Jain, R. *Sports Psychology*. New Delhi, DK Publishers, 2005.

Bowles, Stephen V., and Paul T Bartone, editors. *Handbook of Military Psychology: Clinical and Organizational Practice*. Washington, Springer International Publishing, 2017.

Maple, Terry L., and Valerie Segura. 'Comparative Psychopathology: Connecting Comparative and Clinical Psychology'. *International Journal of Comparative Psychology*, vol. 30, 2017, <https://doi.org/10.46867/ijcp.2017.30.02.04>.

Davey, Graham. *Applied Psychology*. 1st ed., Britain, BSP Blackwell and British Council Library, 2011.

WEB RESOURCES

<https://bit.ly/Mind-of-killers>

<https://bit.ly/Eyewitness-Wrong>

<https://bit.ly/Champion-Athletes-Mind>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/AP54												
V	Course Title: Applied Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	3	3	3	2	2	3
CO 2	3	3	3	3	2	2	3	3	3	3	1	2	3
CO 3	3	3	3	3	3	2	3	2	3	3	2	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	3
CO 5	2	2	3	2	3	3	3	3	3	2	3	1	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

PSYCHOLOGICAL ASSESSMENT PRACTICAL

CODE: 23PY/MC/PA55

CREDITS: 5

L T P: 3 0 4

TOTAL TEACHING HOURS: 91

OBJECTIVES OF THE COURSE

- To familiarize students with the interplay of different types of variables and modes of enquiry in the field of psychology.
- To enable students to develop skills required for psychological testing.
- To facilitate skeptical thinking among students while assessing subjects.
- To train students to utilise sound judgment and non-bias while reporting and interpreting scores
- To impart knowledge about the ethical considerations of psychological testing and administration.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	recollect the basic concepts in psychological assessments	K1
CO2	elaborate the theoretical foundations underlying human behaviour in testing	K2
CO3	apply the knowledge and skills acquired to use relevant and appropriate assessments based on the requirements	K3
CO4	analyze the data obtained from the psychological testing process	K4
CO5	assess the methodology of testing and synthesize the results and implications of the assessment	K5 & K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6-Create		

Ten tests to be conducted:

S.no	Name of the Test
1.	Multiple Intelligence Scale
2.	Raven's Standard Progressive Matrices
3.	Bhatia's Battery of performance test
4.	Wechsler Adult Intelligence Test (WAIS)
5.	Wechsler Intelligence Scale for Children (WISC)
6.	Binet Kamath Test of Intelligence
7.	Achievement Motivation Scale
8.	Wallach-Kogan Creativity Test
9.	Eysenck Personality Inventory
10.	Test of Self -concept scale
11.	Test of values

12.	Locus of Control
13.	Adjustment Scale
14.	Self-esteem Scale
15.	Trait and State Anxiety Scale
16.	Trait and State Anger Expression Inventory
17.	Becks Depression Scale
18.	Sentence completion test
19.	Chatterjee's non-language preference record
20.	NEO-FFI
21.	Career Maturity Scale
22.	Vocational Preference Inventory
23.	MMPI
24.	Vineland Social Maturity Scale
25.	Marriage Attitude Scale
26.	Alcohol and Drugs Attitude Scale
27.	Differential Aptitude Test
28.	Family Environment Scale
29.	Suicidal Ideation scale
30.	Hamilton's Anxiety Scale

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Cognitive Level	Mark Allocation
K1 Aim Materials Required Plan & Procedure	10
K2 General Discussion	10
K3 Rapport and Conduction	10
K4 Individual Discussion	10
K5 Viva	5
K6 Interpretation & Conclusions	5

End-semester Assessment:**Total Marks: 50**

Cognitive Level	Mark Allocation
K1 Aim Materials Required Plan & Procedure	10
K2 General Discussion	10
K3 Rapport and Conduction	10
K4 Individual Discussion	10
K5 Viva	5
K6 Interpretation & Conclusions	5

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/PA55												
V	Course Title: Psychological Assessment Practical												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	1	1	1	3	3	3	2	1	1
CO 2	3	3	3	2	3	3	3	3	3	3	2	2	2
CO 3	3	3	3	2	3	3	3	3	3	3	3	2	2
CO 4	3	3	3	2	3	3	3	2	1	2	3	3	3
CO 5	3	3	3	2	3	3	3	2	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by the Departments of English (Self-financed)
and Psychology to B.A. English and Communication Skills and
B.Sc. Psychology Degree Programmes**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LITERATURE AND PSYCHOLOGY

CODE: 23ID/IC/LP55

CREDITS: 5

LTP: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To introduce students to the interdisciplinary aspects between Literature and Psychology
- To help students understand the fundamentals of human behaviour
- To encourage students to employ psychological concepts in their understanding of literary texts
- To critically appreciate literary texts using theories from different schools of psychology
- To equip students to assess real and literary characters through a psychological lens.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define key terms and concepts related to the study of literature and psychology	K1
CO2	demonstrate the ability to interpret literary texts from literary and psychological perspectives	K2
CO3	apply concepts in psychology to understand real and literary characters	K3
CO4	examine the interdisciplinarity of various literary work	K4
CO5	evaluate and develop critical interpretation of literary texts using theories from different schools of psychology	K5 & K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Schwartz and Willbern: "Literature and Psychology" from <i>Interrelations of Literature</i> 1.2 Overview of personality and personality theories 1.3 Introduction to major theorists 1.3.1 Melanie Klein 1.3.2 Karen Horney 1.3.3 Jacques Lacan 1.3.4 Julia Kristeva	K1 - K4	16	1-4
2	Social Psychology 2.1 Social cognition, Social influence 2.2 Grief 2.3 Mari Selvaraj: <i>Pariyaerum Perumal</i> 2.4 Dylan Thomas: Do Not Go Gentle into That Good Night	K1 - K6	12	1-5
3	Psychosis 3.1 Hallucinations and Delusions, Schizophrenia 3.2 Causes and Treatment of Psychosis 3.3 Edgar Allan Poe: The Tell-Tale Heart	K1 - K6	10	1-5
4	Trauma and Attachment 4.1 Attachment theory 4.1.1 Adult attachment 4.2 Trauma theory 4.2.1 Causes and impacts of trauma 4.2.2 Resilience and trauma 4.3 Carol Ann Duffy: Warming her Pearls 4.4 Saadat Hasan Manto: Thanda Gosht	K1 - K6	20	1-5
5	Happiness 5.1 Personality and Happiness 5.2 Money and Happiness - Paradox of Affluence 5.3 Culture and Happiness 5.4 Amy Tan: <i>The Joy Luck Club</i>	K1 - K6	20	1-5

BOOKS FOR REFERENCE

Baron, Robert and Girishwar Mishra. *Psychology: Indian Subcontinent Edition*. Fifth Edition, Chennai, Pearson, 2016.

Baumgardner, Steve and Marie Crothers. *Positive Psychology*. Chennai, Pearson, 2015.

Comer, Ronald J. *Abnormal Psychology*. Eleventh Edition, Duffield, Worth Publishers, 2021.

Gottschall, Jonathan and David Sloan Wilson, editors. *The Literary Animal: Evolution and the Nature of Narrative*. Illinois, Northwestern University Press, 2005.

Haidt, Jonathan. *The Happiness Hypothesis*. New York, Basic Books, 2006.

Haycock, Dean. *Characters on the Couch: Exploring Psychology through Literature and Film*. Connecticut, Greenwood, 2016.

Holland, Norman Norwood. *Holland's Guide to Psychoanalytic Psychology and Literature-and-psychology*. Chennai, Oxford University Press, 1990.

Knapp, John V. "New Psychologies and Modern Assessments: Rethinking Classics in

Literature, including Film and Music.” *Style*, vol. 44, no. 1-2, 2010, pp. 1-59. *JSTOR*, <https://www.jstor.org/stable/10.5325/style.44.1-2.1>.

Van der Kolk, Bessel A. *The Body Keeps the Score: Brain, Mind, and Body in the Healing of Trauma*. New York, Viking, 2014.

Lindauer, Martin S. *Psyche and the Literary Muses: The Contribution of Literary Content to Scientific Psychology*. Amsterdam, John Benjamins Publishing, 2009.

Santos, Rosemary Conceição et al. “Psychology of Literature and Literature in Psychology.” *Friends in Psychology*, vol. 26, no. 2, 2018, pp. 781-794.

Winterowd, W. R. and Preston, C. *Themes and Variations: A College Reader*. San Diego, Harcourt, 1985.

WEB RESOURCES

Hoffman, Frederick J. “Psychology and Literature.” *The Kenyon Review*, vol. 19, no. 4, 1957, pp. 605–19. *JSTOR*, <http://www.jstor.org/stable/4333802>. Accessed 7 Sept. 2023.

Jean-Michel Rabaté. “Editor’s Introduction: Trauma & Psychology.” *Journal of Modern Literature*, vol. 39, no. 4, 2016, pp. v–vii. *JSTOR*, <https://doi.org/10.2979/jmodelite.39.4.01>. Accessed 7 Sept. 2023.

Brown, Pearl L., and Michele Hoffnung. “Images of Women in Psychology and Literature: An Interdisciplinary Course.” *Feminist Teacher*, vol. 6, no. 1, 1991, pp. 14–20. *JSTOR*, <http://www.jstor.org/stable/40545594>. Accessed 7 Sept. 2023.

ONLINE COURSES

NPTEL course on “Social Psychology”: <https://nptel.ac.in/courses/109104048>

NPTEL course on “Positive Psychology”: <https://nptel.ac.in/courses/109102157>

NPTEL course on “Trauma and Literature”: <https://nptel.ac.in/courses/109106186>

PATTERN OF ASSESSMENT

Continuous Assessment Test:			Total Marks: 50	Duration: 90 minutes
Section	Knowledge Level	Marks	Pattern	
A (Internal choice)	K1	10	2 x 5 = 10 (2 out of 4 questions, 150 words)	
B	K2	10	1 x 10 = 10 (1 out of 2 questions, 250 words)	
C	K3	10	1 x 10 = 10 (1 out of 2 questions, 250 words)	
	K4	10	1 x 10 = 10 (1 out of 2 questions, 250 words)	
D (Internal choice)	K5 & K6	10	1 x 10 = 10 (1 out of 2 passage analysis from texts prescribed on syllabus, 250 words)	

Other Components:

Total Marks: 50

Assignment/Seminar/Presentation/Take Home Test/Open Book Test /Quiz/Panel Discussion/Group Presentation

End-Semester Evaluation:**Total Marks: 100**

Term paper (open choice of text - minimum 1500 words)

Knowledge Level	Marks	Rubrics for Evaluation
K1	10	Documentation
K2	15	Formulating and explaining topic statement
K3	15	Explaining the conceptual framework
K4	25	Textual analysis
K5	20	Critical responses-relevance and coherence
K6	15	Stating the conclusions

No End Semester Examination

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/LP55												
V	Course Title: Literature and Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	1	1	2	2	3	3	1	1	3
CO 2	2	3	3	3	2	2	2	2	3	3	2	2	3
CO 3	3	3	3	2	2	2	3	2	3	3	3	3	3
CO 4	2	3	3	2	2	2	3	2	2	3	1	2	3
CO 5	2	3	3	3	2	1	3	1	2	2	1	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Interdisciplinary Core Course Offered by the Departments of Computer Science and
Psychology to B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023–2024)

HUMAN COMPUTER INTERACTION

CODE: 23ID/IC/HC55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand constraints, get an insight into the design space, and on deep knowledge of the materials of the design, that is, the user, the task, and the machine
- To analyze the design technologies for individuals and persons with disabilities
- To examine the psychological attributes of the user, provide the students with a basic overview of the capabilities and limitations that affect the ability to use computer systems in terms of developing interactions
- To understand constraints and get insights on the design space with interactive design basics
- To evaluate modelling interactions through descriptive modelling methods and technologies

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the foundations of HCI and interactive design concepts	K1
CO2	classify various types of interaction, user models and psychological factors	K2
CO3	apply design rules, user centered approaches and psychological factors to interaction design	K3
CO4	analyse physical designs, participant observation and modelling interaction with relevance to user feedback system	K4
CO5	evaluate expressive interfaces and computer-mediated communication	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate 		

UNIT	CONTENT	CL	HRS	CO
1	<p>1.1 Introduction to Interaction Design Introduction-Good and poor design -What is Interaction Design? -What is involved in the process of Interaction Design? -The goals of interaction design-More on usability: Design and usability principles.</p> <p>1.2 The Human Understanding the human mind- Input-Output channels. Levels of information processing. Memory- Atkinson and Shrifin model; structure of the working memory.</p> <p>1.3 The Computer Devices – Memory – Processing and Networks.</p> <p>1.4 Interaction Models Frameworks – Ergonomics: Bias - Arrangement of controls and displays, physical environment of interaction, health issues, use of colours, and ergonomics and HCI. – Styles – Elements – Interactivity-Experience, engagement and fun understanding and designing experience and physical design & engagement.</p>	K1 –K3	15	1-3
2	<p>2.1 Understanding Users Cognition- Attention: visual and auditory attention. Parallel processing. Perception perceptual grouping- figure and ground, similarity, proximity, continuity, symmetry, closure.</p> <p>2.2 Designing for collaboration and communication Introduction- Social mechanisms used in communication and Collaboration Ethnographic studies of collaboration and Communication-Conceptual frameworks</p> <p>2.3 Understanding how interfaces affect users Introduction- What are affective aspects? - Expressive Interfaces-User Frustration Virtual characters: agents</p>	K1-K4	12	1-4
3	<p>3.1. Types of Users Visualizers and verbalizers. High and low OSL. Variety and Novelty Seekers. Need for cognition. Designing for special populations- children, the elderly and the disabled.</p> <p>3.2 Observing users Introduction-Goals, questions and Paradigms-What and when to observe -How to observe- Participant observation and Ethnography-Data collection- Indirect observation tracking users' activities- Analyzing, interpreting and presenting data.</p> <p>3.3. Asking users and experts Introduction -Asking users: Interviews- Asking users: Questionnaires- Asking users: Inspections- Asking users: Walkthroughs</p>	K1-K3	15	1-3

UNIT	CONTENT	CL	HRS	CO
4	4.1. Interactive Design Basics Process – Scenarios – Navigation – Screen Design – Iteration and Prototyping. 4.2. HCI in Software Process Software Life Cycle – Usability Engineering – Prototyping in Practice – Design Rationale. 4.3. Design Rules Principles, Standards, Guidelines, Rules -Universal Design-User centered approaches to interaction design	K1-K5	18	1-5
5	5.1 Modelling Interaction Descriptive models. Predictive model- A model continuum model 5.2 Groupware Introduction-Groupware Systems-Computer-mediated Communication-Meeting and decision support systems-Shared applications and artifacts-Frameworks for groupware- Implementing synchronous groupware 5.3 Ubiquitous computing and augmented realities Introduction-Ubiquitous computing applications research-Virtual and augmented reality-Information and data visualization 5.4. Hypertext, multimedia and the World Wide Web Introduction-Understanding hypertext- Finding Things-Web technology and issues - Static web content-Dynamic web content	K1-K5	18	1-5

BOOKS FOR STUDY

- Dix Alan, et al. Human Computer Interaction, 3rd Edition, Chennai, Pearson Education, 2004
- MacKenzie, I. Scott. Human-computer interaction: An empirical research perspective. Newnes, Boston, Elsevier, 2013.
- Preece Jenny. Rogers Yvonne. Interaction design beyond human-computer interaction, New Jersey, John Wiley & Sons, 2nd Edition 2002

BOOKS FOR REFERENCE

- Cooper Alan. Riemann Robert. Cronin David. Essentials of Interaction Design, Wiley India Hourcade, J. P. (2008). Interaction Design and Children. Now Publishers.
- Lauesen Soren. User Interface Design. Pearson Education Asia, 4th Edition. O. Galitz, Wilbert. The Essential Guide to User Interface Design. Wiley India, 3rd Edition
- Pullin, G. (2009). Design Meets Disability. Cambridge, MA: MIT Press.
- Rogers Preece. Sharps Interaction Design. Wiley India, 3rd Edition.

Schiffman, Leon G, Wisenblitt, Joseph, Kuman S Ramesh. Consumer behaviour. Chennai. Pearson Education, Inc.2015.

Sears, A., & Jacko, Julie. A (2008) The Human- Computer Interaction Handbook, New York. Taylor and Francis Group.

Sears, A., & Jacko, Julie. A (2009) The Human- Computer Interaction- Interaction Designs and Usability, , Boca Raton, FL:CRC Press.

Shneidermann Ben. Designing the user interfaces. Pearson Education Asia, 3rd Edition.

WEB RESOURCES

<http://www.hcibook.com/e3/online/>

http://teaching.paulos.net/cs160_FL2018/syllabus.html

<http://www.it.bton.ac.uk/staff/rng/teaching/CS221/CS221syllabus.html>

<https://course.ccs.neu.edu/is4300f15/schedule.htm>

[https://graphics.tu-bs.de/teaching/ss17/AHCICASE STUDY](https://graphics.tu-bs.de/teaching/ss17/AHCICASE%20STUDY)

<http://reports-archive.adm.cs.cmu.edu/anon/2000/CMU-CS-00-132.pdf>

PATTERN OF ASSESSMENT:

Continuous Assessment: Total Marks: 50 Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1, K2	10	10 X 1 =10 (Objective type questions) K1-5, K2-5
B	K1, K2, K4, K5	20	4 X 5 = 20 (Internal Choice) K1/K1, K2/K2, K4/K4, K5/K5
C	K3, K4	20	2 X 10 = 20 (Internal Choice) K3/K3, K4/K4
	Total	50	

Other Components: Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study

All K-levels will be evaluated

End-Semester Examination: Total Marks: 100 Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1, K2, K3, K4	20	20 X 1=20 (Objective type questions) K1-5, K2-5, K3-5, K4-5
B	K1, K2, K3, K4	20	4 X 5 =20 (Internal Choice) K1/K1, K2/K2, K3/K3, K4/K4
C	K1, K2, K3, K4, K5	60	6 X 10 =60 (Internal Choice) K1/K1, K2/K2, K3/K3, K4/K4, K4/K4, K5/K5
	Total	100	

*Equal weightage to be given to all Units

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/HC55												
V	Course Title: HUMAN COMPUTER INTERACTION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	1	2	1	1	1	-	1	1	1	1	1
CO 2	3	2	2	2	2	1	1	-	1	1	2	1	1
CO 3	3	2	2	2	2	1	1	-	3	2	2	2	2
CO 4	3	3	2	2	3	3	2	1	3	3	2	3	2
CO 5	3	3	2	2	3	3	2	1	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

ABNORMAL PSYCHOLOGY II

CODE: 23PY/MC/AB65

CREDITS: 5

LTP: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To impart knowledge on the theoretical approaches in understanding Schizophrenia and related disorders
- To guide the students in the diagnosis of disorders based on the clinical manifestation of personality disorders
- To explore the causal factors of somatoform and dissociative disorders
- To guide the students in the diagnosis of disorders based on the clinical manifestation of stress symptoms using an appropriate classification system
- To demonstrate the importance of appropriate evidence-based approaches in treating and managing sexual disorders

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	define the basis of abnormal psychology and the differences between adaptive and maladaptive behavior.	K1
CO2	differentiate between major theoretical orientations in abnormal psychology.	K2
CO3	interpret maladaptive behavior using different theoretical perspectives.	K3
CO4	analyze the standards for the diagnosis and classification of major psychopathological conditions.	K4
CO5	recommend psychotherapeutic interventions for treating maladaptive behavior.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Schizophrenia and related disorders 1.1 Schizophrenia- clinical features of schizophrenia, subtypes of schizophrenia 1.2 Overview of schizophrenia related disorders- delusional disorder, brief psychotic disorder, schizophreniform disorder, schizoaffective disorder, shared psychotic disorder 1.3 Causes of schizophrenia 1.4 Treatment and management	K1- K5	17	1-5

UNIT	CONTENT	CL	HRS	CO
2	Personality Disorders 2.1 Disorders of adult personality and behaviour - clinical features, causes 2.2 Specific personality disorders – paranoid, schizoid, dissocial, histrionic, borderline 2.3 Treatment and management	K1- K5	15	1-5
3	Somatoform and Dissociative Disorders 3.1 Somatoform disorders- conversion disorder, somatization disorder, pain disorder, hypochondriasis and body dysmorphic disorder 3.2 Dissociative disorders- dissociative amnesia and fugue, depersonalization disorder, dissociative identity disorder stressor and trauma-related disorders 3.3 Biological, psychological and sociocultural factors causing somatoform and dissociative disorders 3.4 Treatment and management	K1- K5	12	1-5
4	Stress Disorders 4.1 Acute stress disorder and post-traumatic stress disorder 4.2 Overview of adjustment disorders 4.3 Biological, psychological and sociocultural factors causing stress and trauma-related disorders 4.4 Treatment and management	K1- K5	17	1-5
5	Sexual Disorders and Gender Identity Disorder 5.1 Sexual dysfunctions 5.2 Causes and treatment of sexual dysfunctions 5.3 Paraphilias – causes and treatment 5.4 Gender identity disorder 5.5 Biological, psychological and sociocultural factors of causation 5.6 Treatment and management	K1- K5	17	1-5

BOOKS FOR STUDY

Comer, Ronald J. *Fundamentals of Abnormal Psychology*. 9th ed., New York, Worth Publishers, 2009.

Durand, Vincent M., et al. *Abnormal Psychology*. 2nd ed., Pacific Grove, Thomson Brooks/Cole, 2000.

Sarason, Irwin G., et al. *Abnormal Psychology*. 11th ed., New Delhi, Prentice Hall, 2005.

BOOKS FOR REFERENCE

Carson, Robert C., John N. Butcher, et al., *Abnormal Psychology*. 13th ed., Delhi, India, Pearson Education, 2007.

Durand, Vincent M., et al., *Abnormal Psychology: An Integrative Approach*. 6th ed., Chennai, Wadsworth Cengage Learning, 2009.

WEB RESOURCES

<https://bit.ly/451qohn>

<https://bit.ly/3ueHXha>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23PY/MC/AB65												
VI	Course Title: Abnormal Psychology II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	3	2	2	2	2	2
CO 2	3	3	3	2	2	3	3	3	3	2	3	2	2
CO 3	2	2	2	2	2	2	2	3	2	3	3	2	3
CO 4	3	3	2	2	3	3	3	3	3	2	2	2	2
CO 5	2	3	3	2	3	2	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

COUNSELLING PSYCHOLOGY

CODE: 23PY/MC/CP64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce students to the basic concepts of counselling psychology
- To familiarize students on the different approaches to counselling
- To educate students on the stages of counselling as given by the Egan model
- To impart knowledge about counselling diverse groups
- To educate students about the characteristics and roles of counsellors

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	identify the scope of counselling psychology in real life	K1
CO2	elucidate the fundamental concepts and principles of counseling psychology	K2
CO3	apply counseling techniques and interventions to hypothetical client scenarios	K3
CO4	analyse the nuances of counselling processes and outcomes	K4
CO5	estimate the efficacy and effectiveness of different approaches in counselling	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Counselling- An Introduction 1.1 Introduction: Definitions of counselling 1.2 Characteristics of an effective counsellor 1.3 Functions of counsellors 1.4 Goals of counselling 1.5 Ethics in counselling 1.6 Different modalities in counselling- virtual therapy vs in person therapy	K1- K5	13	1-5
2	Approaches to Counselling 2.1 Psychodynamic Approach 2.2 Behaviouristic Approach 2.3 Humanistic Approach 2.4 Trait-Factor Approach 2.5 Gestalt Approach 2.6 Existential Approach 2.7 Eclectic approach	K1- K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
3	The Egan Model of Counselling–the Skilled Approach 3.1 <u>Stage–1</u> Problem Exploration and Clarification Part I– Attending and Listening, orienting oneself to the present Micro skills – active listening – verbal and non-verbal messages and behavior Part II–Helper’s response and clients self-exploration Helpers skills–accurate empathy (primary level), respect, genuineness, concreteness Client’s skill –self-exploration 3.2 <u>Stage–2</u> Integrative understanding/dynamic self-understanding Part I – Focusing, summarizing, probing for missing experiences, behaviour Feelings Part II – Helper’s skills – all the skills of Stage-1, self-disclosure, immediacy, confrontation Client’s skill –non-defensive listening, dynamic self-understanding	K1- K5	13	1-5
4	The Egan Model of Counselling– the Skilled Approach 4.1 <u>Stage-3</u> Facilitating action; developing a new perspective; preferred scenario Part I– Helping the client see alternatives Helping the client choose and formulate an action plan Helping the client implement and evaluate Part II–Helper’s skill-All the skills of stages 1&2 4.2 Termination of counselling- readiness of termination, client responses to termination, counselors responses to termination, ending in a positive way	K1- K5	13	1-5
5	Counselling of Special Groups 5.1 Marital and Family Counselling 5.2 School counselling 5.3 Career counselling 5.4 Workplace counselling 5.5 Grief counselling 5.6 Counselling suicidal clients 5.7 Crisis Counselling	K1- K5	13	1-5

BOOKS FOR STUDY

Egan, Gerard. *The Skilled Helper: A Problem-Management and Opportunity-Development Approach to Helping*. 10th ed., Belmont, Cengage Learning, 2014.
 Welfel, Elizabeth Reynolds, and Lewis E Patterson. *The Counseling Process*. Belmont, Cengage Learning, 2005.

BOOKS FOR REFERENCE

Gibson, Robert L, and Marianne Mitchell. *Introduction to Counseling and Guidance*. New Delhi, Prentice Hall Of India, 2008.

Nelson-Jones, Richard. *Theory and Practice of Counselling and Therapy*. London, Sage, 2011.

Corey, Gerald, et al. *Theory and Practice of Counselling and Psychotherapy*. South Africa, Cengage Learning, 2017.

WEB RESOURCES

<https://rb.gy/w2506>

<https://rb.gy/0hqmq7>

<https://rb.gy/ezfev>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice-Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice-Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/CP64												
VI	Course Title: Counselling Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	1	3	3	3	3	3	2	3
CO 2	3	3	3	3	3	2	3	3	3	3	3	2	3
CO 3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO 4	3	3	3	3	3	2	2	3	3	3	3	2	2
CO 5	3	3	3	3	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

REHABILITATION PSYCHOLOGY

CODE: 23PY/MC/RP65

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To familiarize students with concepts related to rehabilitation psychology
- To help students classify disabilities and be sensitive to the needs and potentials of those with disabilities
- To aid students in conducting needs analysis for persons with disabilities and formulate an intervention plan based on the same
- To assist students to examine the significance of various rehabilitation programs
- To explore existing policies and laws for persons with disabilities at both national and international levels

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	describe the role of a rehabilitation psychologist in practice and their services within a network of biological, psychological, social, environmental and political capacities	K1
CO2	outline the conceptual frameworks in rehabilitation psychology	K2
CO3	apply rehabilitation assessment tools and intervention strategies to study cases	K3
CO4	analyze the impact of psychosocial, environmental and cultural factors on the rehabilitation process	K4
CO5	evaluate factors affecting disabilities and psychosocial interventions used in the rehabilitation process	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Rehabilitation Psychology 1.1 Basic constructs- Impairment, handicap, disability 1.2 Meaning and definition of rehabilitation 1.3 Goals, objectives and principles of rehabilitation 1.4 Impact of Disability 1.4.1 Individual- person variables, immediate environment, larger culture and subculture 1.4.2 Family- family systems theory, family coping resources 1.4.3 Community	K1- K5	15	1-5

UNIT	CONTENT	CL	HRS	CO
2	Classes of disabilities and their management 2.1 Vision impairment- Nature, causes and types, characteristics, assessments, management techniques 2.2 Hearing and speech impairment- Nature, causes and types, characteristics, assessments, management techniques 2.3 Intellectual disability- Nature, causes and types, characteristics, assessments, management techniques 2.4 Neuromuscular and orthopaedic disabilities- Nature, causes and types, characteristics, assessments, management techniques	K1- K5	16	CO 1-5
3	Rehabilitation of persons with disabilities 3.1 Psychological adjustment to disability- Kerr's levels of adaptation to disability, stage theories of disability 3.2 Personality assessment- observational methods, personality inventories and projective techniques 3.3 Training need analysis, planning and implementation of training programme 3.4 Careers for the disabled 3.5 Role of rehabilitation psychologist in different settings	K1- K5	16	CO 1-5
4	Areas of Rehabilitation 4.1 Vocational Rehabilitation- process, participants in the rehabilitation program, vocational evaluation and assessments 4.2 Addiction rehabilitation- Drug addiction and Alcoholism 4.3 Disaster rehabilitation and reconstruction- Concepts, types, problem areas 4.4 Individual and community-based rehabilitation	K1- K5	16	CO 1-5
5	Frameworks for intervention 5.1 Addressing Barriers to Rehabilitation 5.2 National Action Plan for skill training of persons with disabilities 5.3 Overview of Indian laws- Rehabilitation Council of India Act 1992, Rights of People with Disabilities 2016, Mental Healthcare Act 2017 5.4 International programs for the disabled- United Nations Conventions on the Rights of People with Disabilities 2007	K1- K5	15	CO 1-5

BOOKS FOR STUDY

Golden, Charles J. *Current Topics in Rehabilitation Psychology*. New York, Grune & Stratton, 1984.

Farrell, Michael. *Effective Teacher's Guide to Sensory and Physical Impairments*. 2nd edition, London, Routledge, 2010.

McDaniel, J. W. *Physical Disability and Human Behavior*. New York, Pergamon General, 2013.

Smart, J. *Disability Across the Developmental Life Span: For the Rehabilitation*. New York, Springer Publishing, 2011.

Sharma, K. *Aural Rehabilitation of Hearing Impaired Children*. New Delhi, Sarup& Sons, 2006.

Riggar, T. F., and Dennis R. Maki. *Handbook of Rehabilitation Counseling*. New York, Springer Publishing, 2008.

BOOKS FOR REFERENCE

Algozzine, B., and J. Ysseldyke. *Teaching Students With Medical, Physical, and Multiple Disabilities: A Practical Guide for Every Teacher*. Thousand Oaks, Corwin Press, 2006.

Lieberman, R. P. *Recovery From Disability: Manual of Psychiatric Rehabilitation*. New York, American Psychiatric Association Publishing, 2009.

VaMcginley, V. A., and M. Alexander. *Parents and Families of Students With Special Needs: Collaborating Across the Age Span*. New York, SAGE Publications, 2017.

Vash, C. L., and N. M. Crewe. *Psychology of Disability*. 2nd ed., New York, Springer Publishing Company, 2003.

WEB RESOURCES

<https://shorturl.at/mryA6>

<https://shorturl.at/iwAV1>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/MC/RP65												
VI	Course Title: Rehabilitation Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	3	3	3	3	3	2	3
CO 2	3	3	3	1	3	1	3	3	3	3	3	2	3
CO 3	3	3	3	1	3	2	3	3	3	3	3	3	3
CO 4	3	3	3	1	3	2	3	3	3	3	3	3	3
CO 5	3	3	3	1	3	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

CONSUMER PSYCHOLOGY

CODE: 23PY/ME/CY45

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To explore the rationale behind consumers' behaviours
- To educate students about the motivational factors and personality traits influencing consumer behaviour
- To assist in distinguishing the ways in which consumers learn and communicate about products and services
- To help relate the social and cultural influences on consumer behaviour
- To enable understanding of how consumers make purchase decisions

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	identify the social influences on consumer behaviour	K1
CO2	classify the cognitive processes involved in purchase-related behaviour	K2
CO3	make use of the marketing knowledge to influence consumer behaviour	K3
CO4	compare the relationship between concepts of consumer behaviour and marketing	K4
CO5	assess the effectiveness of attempts made to persuade consumers	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Consumer Psychology: 1.1 Definition and meaning of consumer behaviour 1.2 Nature and importance of consumer behaviour 1.3 General model of consumer behaviour 1.4 Marketing concept, market segmentation and marketing mix Consumer Perception 1.5 Elements of perception- sensory input, absolute threshold, differential threshold and subliminal perception	K1- K5	12	1-5
2	Consumer Motivation 2.1 Meaning of motivation, types of motives, dynamic nature of motives- needs and goals of consumers	K1- K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
	Consumer Personality 2.2 Meaning of personality, facets of personality, personality traits and consumer behaviour			
3	Consumer Learning 3.1 Elements of consumer learning 3.2 Approaches to learning 3.2.1 Behavioural learning theories- classical conditioning, operant conditioning 3.2.2 Cognitive learning theory Consumer Communication Process 3.3 Definition of communication, communication process- traditional media and new media 3.4 Designing persuasive communication messages- communications strategies, target audience, media strategy, message strategies, message structure and presentation	K1- K5	13	1-5
4	Consumer in the Social and Cultural Settings 4.1 Family as a socialization agent- parental styles and consumer socialization 4.2 Family decision making and consumption related roles- Husband and wife decision making, children's influence in decision making, family member's roles 4.3 Family life cycle, non-traditional families 4.4 Social class and social status, social class characteristics 4.5 Reference groups- types of reference groups, factors influencing reference groups influence 4.6 Culture's role and dynamics- levels of cultural norms, symbolism, psychographics	K1- K5	15	1-5
5	Consumer Decision-Making Process 5.1 Stages of Decision Making 5.2 Types of Decision Making 5.3 Levels of consumer decision-making 5.4 Consumer Decision Making Model- EKBMModel	K1- K5	12	1-5

BOOKS FOR STUDY

Schiffman, Leon G., et al. *Consumer Behavior*. 12th ed., Chennai, Pearson Education India, 2018.

Sharma, Rajwanti, and Jai P. Sharma. *Consumer Behaviour*. 1st ed., New Delhi, JBC Press, 2014.

BOOKS FOR REFERENCE

Sethna, Zubin, and Jim Blythe. *Consumer Behaviour*. 4th ed., New Delhi, SAGE, 2020.

Graves, Philip. *Consumer.ology: The Truth about Consumers and the Psychology of Shopping*. 2nd ed., UK, Hachette, 2013.

Pasricha, Seema. *Consumer Psychology*. New Delhi, Deep & Deep publications, 2007.

Sharan, A. K. *Consumer Psychology*. Bangalore. Rajat publications, 2017.

WEB RESOURCES

<https://bitly.ws/UZqx>

<https://shofturl.at/fhtNb>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/ME/CY45												
IV / VI	Course Title: Consumer Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	1	3	2
CO 2	3	3	3	3	3	3	3	2	3	3	1	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 4	3	3	3	3	3	3	2	2	3	3	1	3	2
CO 5	3	3	3	3	3	3	2	2	3	3	1	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

ORGANISATIONAL PSYCHOLOGY

CODE: 23PY/ME/OP45

CREDITS: 5

LTP: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVE OF THE COURSE:

- To introduce the development and scope of the field organisational psychology
- To enable students to gain understanding of the dynamics of human interaction within an organisational context
- To impart knowledge on the patterns of recruitment, training and assessment of personnel in organisations
- To familiarize students with theories and factors contributing to motivation and satisfaction on the job
- To provide insight on group-related processes in the organisation

COURSE LEARNING OUTCOMES:

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	identify and state the concepts related to organizational behaviour	K1
CO2	define and discuss individual and group level processes involved in organizational psychology	K2
CO3	apply the theories and concepts of organizational psychology in the field	K3
CO4	investigate the functions of organizational psychologist and HR manager	K4
CO5	appraise the merits and limitations of different models and theories in different organizational setups	K5

UNIT	CONTENT	CL	HOURS	CO
1	Introduction to Organisational Psychology 1.1 Definition of organization and organisational structure 1.2 Relevance of psychology in organisation 1.3 Meaning, definition and scope of organisational psychology 1.4 Historical development of organisational psychology; pioneers of personnel selection 1.5 Challenges for organisational psychology- continuing globalization, workforce demographics, workforce diversity, social media, employee well-being at work, positive work environment, ethical behaviour	K1- K5	10	1-5

UNIT	CONTENT	CL	HOURS	CO
2	Organisational culture and dynamics 2.1 Organisational culture 2.1.1. Definition, creating and sustaining an ethical and customer responsive culture. 2.1.2. Employees learn culture 2.2 Organisational Dynamics 2.2.1 Role of managers 2.2.2 Forces for change 2.2.3 Managing planned change 2.2.4 Resistance to change 2.2.5 Overview to the approaches to change	K1- K5	12	1-5
3	Assessment of job, performance and people 3.1 Job analysis- definition 3.1.1 Job oriented approach, person oriented approach 3.1.2 Purpose of job analysis 3.2 Performance appraisal- definition 3.2.1 Reasons for appraisal 3.2.2 Methods of performance appraisal 3.3 Selecting employees- definition 3.3.1 Recruitment process, interviews and psychological tests 3.4 Training-Definition 3.4.1 Training methods- on the job and off the job training	K1- K5	13	1-5
4	Work Motivation and Job Satisfaction 4.1 Meaning and definition of motivation 4.1.1 Early theories of work motivation- need hierarchy, two-factor theory, Mclelland's theory of needs 4.1.2 Contemporary theories of motivation- ERG theory; reinforcement theory, self determination theory, goal setting theory 4.2 Job satisfaction 4.2.1 Nature of job satisfaction 4.2.2 Antecedents of job satisfaction- environmental and personal antecedents 4.2.3 Potential effects of job satisfaction	K1- K5	14	1-5
5	Work Groups, Work Teams and Leadership 5.1 Definition of work groups and work teams 5.1.1 Important group concepts- roles, norms, group cohesiveness, process loss 5.1.2 Building effective teams- context, composition, work design, process 5.2 Leadership 5.2.1 Definition of leadership 5.2.2 Behavioural theories- managerial grid 5.2.3 Contingency theories- Fred Fiedler model	K1- K5	16	1-5

UNIT	CONTENT	CL	HOURS	CO
	5.2.4 Situational theory- Hersey and Blanchard's model 5.2.5 Contemporary theories of leadership- charismatic leadership, transactional and transformational leadership			

BOOKS FOR STUDY

Robbins, Stephen P., and Tim Judge. *Organisational Behaviour*. Sydney, Pearson Australia, 2019.

Bulger, Carrie A., et al. *Psychology and Work Today*. 11th ed., New York, Routledge, 2020.

Spector, Paul E. *Industrial and Organizational Psychology: Research and Practice*. 8th ed., Hoboken, Wiley Global Education, 2021.

BOOKS FOR REFERENCE

Newstrom, John W. *Organizational Behavior : Human Behavior at Work*. 14th ed., New Delhi, McGraw-Hill, 2015.

Singh, Yogender, and Mamta Pandey. *Organizational Behaviour*. 2nd ed., New Delhi, AITBS Publishers, 2004.

WEB RESOURCES

<https://bitly.ws/Vznm>

<https://bitly.ws/Vznm>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 'Other Components' will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/ME/OP45												
IV / VI	Course Title: Organisational Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	2	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	2	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	2	3	3	3
CO 4	3	3	3	3	3	3	2	2	3	2	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

HEALTH PSYCHOLOGY

CODE: 23PY/ME/HP45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To demonstrate an understanding of the importance of health psychology
- To compare and contrast the various models on the modification of health habits
- To elucidate on the impact of stress and the ways to cope with it
- To explain chronic illness and pain and its management
- To inculcate health promoting behaviours in daily life

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	recognize the complexities of health and illness including different approaches to health and wellbeing.	K1
CO2	describe the principles of health and wellness	K2
CO3	examine the impact of psychological factors on health and disease.	K3
CO4	analyze the value of health psychology and possible career prospects within the field	K4
CO5	evaluate personal lifestyle choices based on the knowledge gained in the course.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Health Psychology- Health Behaviour 1.1 Health psychology- definition and need 1.2 The biopsychosocial model, patient practitioner relationship 1.3 Training for a career in health psychology 1.4 Introduction to health behaviour 1.5 Factors influencing the practice of health behavior	K1- K5	13	1-5
2	Modification of Health Behaviour 2.1 Changing health habits using theoretical models- health belief model, theory of planned behaviour 2.2 Cognitive behavioural approaches to change health behaviour 2.3 Transtheoretical model of behaviour change 2.4 Avenues for health habit modification	K1- K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
3	Stress 3.1 Stress- definition, dimensions of stress, sources of chronic stress. 3.2 Theoretical contributions- Lazarus's appraisal model, flight or fight response, general adaptation syndrome, tending and befriending model 3.3 Psychoneuroimmunology 3.4 Coping with stress	K1- K5	13	1-5
4	Chronic Illness and Pain 4.1 Illness factors- onset, progression, types of symptoms 4.2 Quality of life 4.3 Personal issues in chronic illness 4.3.1. Coping with chronic illness 4.3.2 Comanagement of chronic illness 4.3.3 Psychosocial interventions 4.4 Pain- definition, types of pain 4.4.1 Pain control techniques 4.4.2 Pain management	K1- K5	16	1-5
5	Health Promoting Behaviours 5.1 Exercise- benefits of exercise, determinants of regular exercise, exercise interventions 5.2 Diet- developing a healthy diet, changing diet, resistance to modifying diet 5.3 Sleep- sleep and health 5.4 Accident prevention	K1- K5	10	1-5

BOOKS FOR STUDY

Taylor, Shelley E. *Health Psychology*. New Delhi, McGraw-Hill, 2018.
 Sarafino, E. *Health Psychology: Biopsychosocial Interactions*. 5th ed., Hoboken, Wiley, 2006.
 Boyer, Bret A. 'Theoretical Models of Health Psychology and the Model for Integrating Medicine and Psychology'. *Comprehensive Handbook of Clinical Health Psychology*, John Wiley & Sons, Inc., 2012, pp. 1–30, <https://doi.org/10.1002/9781118269657.ch1>.

BOOKS FOR REFERENCE

Marks, D. F. et al., *Health Psychology: Theory, Research and Practice*. 2nd ed., Thousand Oaks, California, SAGE Publications Ltd., 2005.

WEB RESOURCES

<https://t.ly/YGoIV>
<https://t.ly/p4QfU>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/ME/HP45												
IV / VI	Course Title: Health Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	1	3	2	3	3	3	3	3	2	3
CO 2	3	3	3	1	3	1	3	3	3	3	3	2	3
CO 3	3	3	3	1	3	1	3	3	3	3	3	2	3
CO 4	3	3	3	1	3	2	3	3	3	3	3	2	3
CO 5	3	3	3	1	3	2	3	3	3	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

INDIGENOUS PSYCHOLOGY

CODE: 23PY/ME/IP45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the students to eastern philosophies that interpret human behaviour
- To help students compare and evaluate differences and similarities between indigenous and Western psychology
- To enable students to experiment with indigenous ideas in theory and practice
- To aid in the examination of the interactions between theology, sociology, and psychology
- To impart knowledge on indigenous healing practices

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	recall the basic concepts of indigenous psychology	K1
CO2	explain the logic and basic assumptions of different indigenous principles	K2
CO3	demonstrate theories and practices involved in indigenous psychology	K3
CO4	analyze the relationship between science and spirituality	K4
CO5	critically examine the Indian perspectives on humanity	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Indigenous Psychology 1.1 Meaning and goals 1.2 Indian psychology 1.3 Science and spirituality 1.4 Research methodology and issues in Indian psychology 1.5 Comparing Indian and western psychology 1.6 Implications and applications	K1- K5	12	1-5

UNIT	CONTENT	CL	HRS	CO
2	Mind-Body Conceptions 2.1 Vedic conception of the mind 2.2 Samkhya yoga conception of mind 2.3 Mind in advaita vedanta 2.4 Mind in nyaya-vaishesika (N-V) system 2.5 Mind in Buddhism 2.6 Mind in Jainism	K1- K5	13	1-5
3	Psychology of Buddhism and Sufism 3.1 Buddhism 3.1.1 Three turnings 3.1.2 Aggregate model – 5 categories of experiences 3.1.3 Network model of mental continuum- selflessness and emptiness, dynamics of experience 3.1.4 Eight-fold collection – formation of personality, afflictions and psychological states, psychology of transformation, going beyond confusion 3.2 Sufism 3.2.1 A brief introduction of Islam 3.2.2 Exoteric and esoteric Islam 3.2.3 Sufism in India 3.2.4 Essentials of Sufi psychology: nafs, heart and soul, journey	K1- K5	14	1-5
4	Transpersonal Psychology in the Bhagavad-Gita 4.1 Physiognomy of depression 4.2 Consciousness and identity, existence, self-knowledge, conflict and wisdom 4.3 Ksetra, Ksetrajna, ego, karma and sanyasa 4.4 Work and yoga: Kinds and implications Thirukkural Approach 4.5 Thirukkural: Meaning and theoretical understanding 4.6 A way of intellectual humility 4.7 An Indian theory of leadership	K1- K5	13	1-5
5	Applications of Indian Psychology 5.1 Indian model of the self 5.2 Implications of Indian psychology for human development 5.3 Pedagogical implications 5.4 Therapeutic implications 5.5 Exploring extraordinary human experience	K1- K5	13	1-5

BOOKS FOR STUDY

Chendroyaperumal, Chendrayan, and M. Archana Meena. Indian Theory of Leadership from Thirukkural. SSRN, 2007. <https://dx.doi.org/10.2139/ssrn.1334703>

Cornelissen, et al. *Foundations and Applications of Indian Psychology*. Chennai, Pearson Education India, 2013.

Misra, Girishwar. *Handbook of Psychology in India*. USA, Oxford UP, 2011.

Rao, K. Ramakrishna, and Anand C. Paranjpe. *Psychology in the Indian Tradition*. New Delhi, Springer India Pvt. Ltd., 2016, doi:10.1007/978-81-322-2440-2.

BOOKS FOR REFERENCE

Katz, Richard. *Indigenous Healing Psychology: Honoring the Wisdom of the First Peoples*. New York, Simon and Schuster, 2017.

WEB RESOURCES

<https://shorturl.at/gBOY2>

<https://bit.ly/49ncWI1>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	6 marks (2 x 3 marks)	2 (Answer All)	50 words
	K2	6 marks (2 x 3 marks)	2 (Answer All)	50 words
B	K4	16 marks (2 x 8 marks)	2 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	8 marks (1 x 8 marks)	1 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	14 marks (1 x 14 marks)	2 (Answer any 1)	800 words

2 to 3 ‘Other Components’ will be assessed for 50 marks, with the same range and weightage of K Levels prescribed for the course.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Mark Allocation	No of Questions	No of Words
A	K1	15 marks (5 x 3 marks)	5 (Answer All)	50 words
	K2	15 marks (5 x 3 marks)	5 (Answer All)	50 words
B	K4	24 marks (3 x 8 marks)	3 (Internal Choice- Answer Any 1 of 2)	400 words
	K5	16 marks (2 x 8 marks)	2 (Internal Choice- Answer any 1 of 2)	400 words
C	K3	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/ME/IP45												
IV / VI	Course Title: Indigenous Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	3	1	1	1	2	3	3	1	1	1	1
CO 2	3	3	3	1	2	2	3	3	3	1	1	1	1
CO 3	3	3	3	1	3	3	3	3	3	3	3	2	2
CO 4	3	3	3	1	3	2	3	3	3	3	1	3	3
CO 5	3	3	3	2	3	3	3	3	3	3	1	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE: PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT

CODE: 23PY/ME/PR45

CREDITS: 5

OBJECTIVES OF THE COURSE

- To enable students to understand and apply basic research methods in psychology
- To aid students to critically analyse major theoretical positions in research methodology
- To promote an understanding of basic theoretical concepts of their research topic
- To guide students in conduction of research
- To edify students report writing skills

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	Description	CL
CO1	explain the theoretical concepts of research topic.	K2
CO2	prepare a proposal for conduction of research.	K3
CO3	analyze and interpret the research findings.	K4
CO4	critique existing literature and identify gaps in knowledge within the field of psychology.	K5
CO5	compile the research findings and scientific material as per APA conventions.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Students must undertake a survey on a relevant topic. Every student is required to complete this project under the supervision and guidance of a faculty member. This report will be evaluated internally by two examiners.

The research proposal and viva voce for the same will be the continuous assessment.

The project report and viva voce will be evaluated for 100 marks as an end semester exam.

GUIDELINES FOR PROJECT REPORT

Page Limit: The Project should be typed in Times New Roman font style, size 12, with 1½ line spacing. APA format should be followed throughout the thesis.

Cover Page- should include

Title of the Project

Project Report submitted by *Name of the candidate, Department No., Bachelor of Science in Psychology, Month, Year*

Logo of the College

The project report includes

- Contents Page
- Certificate of the Research Guide and Head of the Department and Acknowledgement by the Candidate
- Chapter I – Introduction to the Study
- Chapter II- Review of Literature
- Chapter III – Method of Investigation
- Chapter IV- Results and Discussion
- Chapter V – Summary and Conclusion
- References
- Appendix

SUBMISSION

Each student shall submit two copies of the project to the Head of the Department on the date specified by the Controller of Examinations. One copy of the project will remain in the College.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

S.No	Cognitive Level	Mark Allocation
1	K3 Research proposal	15
2	K4 Review of Literature	3
3	K5 Presentation	3
4	K6 Viva Voce	4

End-semester Assessment:

Total Marks: 100

S.No	Cognitive Level	Mark Allocation
1	K2 Introduction	15
2	K3 Methodology	20
3	K4 Review of Literature	15
4	K5 Data collection and interpretation of results	25
5	K6 Viva-voce	25

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23PY/ME/PR45												
IV / VI	Course Title: Project												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	1	2	2	3	3	2	1	2
CO 2	3	3	3	3	3	2	2	3	3	3	2	3	2
CO 3	2	3	3	3	2	3	1	1	2	3	2	3	3
CO 4	3	3	3	3	2	1	2	2	3	3	2	3	3
CO 5	2	3	3	3	2	2	1	1	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology for
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF HUMAN BEHAVIOUR

CODE: 23PY/GE/HB22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE:

- To help students understand basic principles of psychology
- To create self-awareness and understanding of various aspects of human behaviour
- To acquaint the learner with the complexities of individual differences

COURSE LEARNING OUTCOMES:

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	identify and recall important notions in psychology	K1
CO2	elaborate on the understanding of human behavior from a scientific perspective	K2
CO3	apply psychological principles to understanding self and others	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition of psychology and ABCs of human behaviour 1.2 Factors affecting human behaviour 1.3 Methods of studying human behaviour- introspection, observation, interview, case study, questionnaire, experimental method 1.4 Psychological professions and areas of specializations	K1- K3	10	1-3
2	Self 2.1 Definition and understanding the self: William James 2.2 Self-awareness, self-introspection 2.3 Enhancing the self or self-regulation	K1- K3	8	1-3
3	Individual differences in human behaviour 3.1 Biological factors: temperaments 3.2 Psychological factors: personality (big 5 model), intelligence 3.3 Socio-cultural factors: individualist vs collectivist cultures	K1- K3	8	1-3

BOOKS FOR STUDY

Baron, A. Robert. *Psychology*. New Delhi, Prentice Hall, 2007.

Baron, A. *Social Psychology*. Delhi, India, Pearson Education India, 2009.

Bowdon-Tom Butler. *50 Psychology Classics*. London, Nicholas Brealey, 2008.

Morris, Desmond, *The Human Animal: Personal View of the Human Species*, London, BBC Book, 1994.

WEB RESOURCES

<https://shorturl.at/uAQU5>

<https://shorturl.at/qyzAO>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology for
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

BASIC SKILLS IN COUNSELLING

CODE: 23PY/GE/BC22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To impart significant concepts in counselling psychology
- To educate the students about the different skills required for professional counselling
- To help students understand the applications of counselling in various contexts

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	recall the definitions and concepts related to basic counselling skills	K1
CO2	elucidate the different perspectives and processes in counselling	K2
CO3	demonstrate the ways in which counselling can aid better mental health	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Counselling 1.1 Definition and goals of counselling 1.2 Characteristics of a counsellor 1.3 Concepts of advice, guidance and psychotherapy in relation to counselling 1.4 Ethics in counselling 1.5 Individual and group counselling	K1- K3	10	1-3
2	Counselling Process 2.1 Basics steps to counselling (case study &role play) – practical sessions 2.2 Skills in building counselling relationships	K1- K3	10	1-3
3	Areas in Counselling 3.1 Counselling in educational institutions 3.2 Counselling in organizations 3.3 Counselling in families 3.4 Counselling in communities 3.5 Online counselling	K1- K3	6	1-3

BOOKS FOR STUDY

Baron, Robert A, and Girishwar Misra. *Psychology*. 5th ed., Chennai, Pearson, 2015.
Patterson, Lewis E., and Elizabeth Reynolds Welfel. *The Counseling Process*. Delhi, Brooks Cole, 2000.

WEB RESOURCES

<https://shorturl.at/fmtwP>

<https://shorturl.at/crvM6>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology for
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO SOCIAL BEHAVIOUR

CODE: 23PY/GE/SB22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To provide students with a basis for understanding interactions of individuals and societies.
- To enable students to understand perception of people and social events.
- To enable students to understand the psychological basis of social behaviour.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	recall basic concepts of social psychology	K1
CO2	describe and explain social behaviour in psycho-social context	K2
CO3	apply the concepts and theories of social behaviour in personal life	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Social behaviour 1.1 Definition and Scope of social psychology 1.2 Social Influence: Conformity, Compliance and Obedience 1.3 Social Cognition: Heuristics and Schemas	K1- K3	10	1-3
2	Social Perception 2.1 Non-verbal Communication: The basic channels 2.2 Attribution and Errors in attribution: Actor-observer effect, Self serving bias	K1- K3	8	1-3
3	Types of Social Behaviour 3.1 Pro-Social Behaviour and Anti-social behaviour 3.2 Stereotypes, Prejudices and Discrimination 3.2 Interpersonal Attraction: Internal and external sources	K1- K3	8	1-3

BOOKS FOR STUDY

Baron. A Robert, Byrne. Donn. *Social Psychology*. New Delhi, Prentice Hall, 2004.

WEB RESOURCES

<https://shorturl.at/istK7>

<https://shorturl.at/druJM>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology for
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

INTERPERSONAL RELATIONSHIPS

CODE: 23PY/GE/IR22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To highlight the philosophy of relationship dynamics
- To annotate aspects pertaining to the formation of relationships
- To deduce positive communication strategies to optimize interpersonal relationships

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	elucidate the foundation of relationship formulation and dissolution	K1
CO2	comprehend appropriate strategies of relationship building to enhance the quality of relationships	K2
CO3	appreciate the necessity of having positive flourishing relationships	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Dynamics of Relationships 1.1 Types of relationships- affiliation, friendship, relationship with family, romantic relationships 1.2 Emerging relationship statuses 1.3 Love - qualities of love, characteristics, reasons, theories, functions, barriers, long-term love	K1- K3	8	1-3
2	Building and Savouring Relationships 2.1 Trust and commitment 2.2 Communication and love languages 2.3 Compatibility and complementarity	K1- K3	9	1-3
3	Conflicts, Abuse, Loss and Healing in Relationships 3.1 Conflict, abuse and infidelity 3.2 Jealousy, loneliness, and possessiveness 3.3 Breakup, divorce, separation, and death 3.4 Healing in relationships- self-acceptance, boundaries, gratitude, forgiveness, compassion, mindfulness	K1- K3	9	1-3

BOOKS FOR STUDY

Benokraitis, Nijole V. *Marriages & Families*. 9th ed., Ohio, Pearson, 2018.
Lopez, Shane J, et al. *Positive Psychology*. Thousand Oaks, SAGE Publications, 2018.
Olson, David H L, et al. *Marriages and Families : Intimacy, Diversity, and Strengths*. New York, Mcgraw Hill Llc, 2021.

BOOKS FOR REFERENCE

Chapman, Gary. *The Five Love Languages How to Express Heartfelt Commitment to Your Mate*. Illinois, Moody Publishers, 2014.
Christensen, Andrew, et al. *Integrative Behavioral Couple Therapy: A Therapist's Guide to Creating Acceptance and Change*, 2nd Edition. New York, W. W. Norton & Company, 15 Sept. 2020.

JOURNALS

Frontiers in Psychology
Journal of Social and Personal Relationships
Journal of Family Communication
Personal Relationships

WEB RESOURCES

<https://rb.gy/dip45>
<https://rb.gy/ut1ty>
<https://rb.gy/xj9xw>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 'Other Components' will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology for
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programmes
SYLLABUS**

(Effective from the academic year 2023-2024)

INTRODUCTION TO GENDER AND SEXUALITY

CODE: 23PY/GE/IG22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To introduce key concepts and terms related to gender and sexuality
- To familiarize students with the social and cultural notions and challenges faced relating to gender and sexual identities
- To sensitize students to the issues faced by sexuality and gender minorities and instigate a dialogue on the nuances

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the psychological, sociocultural and legal factors affecting problems of gender and sexuality	K1
CO2	summarize the diverse range of experiences of people belonging to gender and sexuality minorities	K2
CO3	employ a sociocultural lens to interpreting challenges relating to gender and sexual identities and find solutions	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Gender and Sexuality 1.1 Difference between sex and gender 1.2 Gender identity- cisgender, transgender, non-binary; gender expression, genderbread person 1.3 Theories of gender identity formation- psychoanalytic theory, social learning theory, cognitive development theory 1.4 Sexual orientation- definition and types	K1- K3	8	1-3
2	Experiences of Gender 2.1 Attitudes about gender, components of gender-related attitudes- gender-role stereotypes, sexism, discrimination, changing gender-related attitudes 2.2 Family and society- socialization of norms, division of labour, media representation	K1- K3	10	1-3

UNIT	CONTENT	CL	HRS	CO
	2.3 Forms of oppression- patriarchy, social hierarchies (caste, class), religion 2.4 Feminism- definition, history of the movement			
3	Challenges of the LGBTQ+ Community 3.1 Healthcare-related issues- medical and psychological challenges 3.2 Occupational issues- accessibility, discrimination and harassment 3.3 Legal issues- changing nature of the law, current debates 3.4 Social and family issues- homophobia/transphobia, social exclusion, violence	K1- K3	8	1-3

BOOKS FOR STUDY

Killermann, Samuel. *The Social Justice Advocate's Handbook: A Guide to Gender*. Austin, Impetus Books, 2013.

Helgeson, Vicki S. *Psychology of Gender*. 5th ed., New York, Taylor and Francis, 2017.

Bhasin, Kamla. *Understanding Gender*. New Delhi, Kali for Women, 2000.

BOOKS FOR REFERENCE

Ember, C. R., and M. Ember. *Encyclopedia of Sex and Gender: Men and Women in World's Culture*. New York, Kluwer Academic/Plenum Publishers, 2003.

Richards, Christina., and Meg John Barker. Editors. *The Palgrave Handbook of the Psychology of Sexuality and Gender*. New York, Palgrave Macmillan, 2015.

Rogers, Wendy Stainton, and Rex Stainton Rogers. *The Psychology Of Gender And Sexuality: An Introduction*. United Kingdom, McGraw-Hill Education, 2001.

White, J. W., et al. *Sexuality, Society, and Feminism*. Washington, American Psychological Association, 2000.

RESEARCH ARTICLES FOR FURTHER READING

Delphy, Christine. "Rethinking sex and gender." *Women's Studies International Forum*. Vol. 16. No. 1. Pergamon, 1993.

Bhasin, Kamala. "What is patriarchy?" *Gender Basics, New Delhi: Women Unlimited*, 1993.

WEB RESOURCES

<https://bit.ly/453UzEW>

<https://bit.ly/3t6uLdS>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 25****Duration: 60 minutes**

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective offered by the Department of Psychology for
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SYLLABUS

(Effective from the academic year 2023-2024)

PSYCHOLOGY OF ADOLESCENCE

CODE: 23PY/GE/AD22

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To help students demonstrate a basic understanding of adolescent psychology
- To aid students to distinguish between counselling and other forms of support
- To enable curiosity and self-reflection

COURSE LEARNING OUTCOMES

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	recall the various concepts related to adolescence	K1
CO2	elucidate the various experiences of adolescents with psychological concepts and theories	K2
CO3	apply psychological theories and concepts to navigate everyday conflicts relevant to teenagers	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Adolescence 1.1 Meaning of adolescence 1.2 Needs and problems of adolescence 1.3 Physical development: growth spurt and its psychological impact, health concerns- psychological impact (body image, substance use, and sexual health) 1.4 Social development- egocentrism, relationship with family, peer group and society	K1- K3	10	1-3
2	Psychological development in Adolescence 2.1 Identity development- Marcia, Erikson 2.2 Personality development- personality traits and temperament in adolescence	K1- K3	8	1-3
3	Adolescence and the Mass Media 3.1 Media habits of today's youth 3.2 Developmental differences in processing mass media 3.3 Influence of media (violence, sex, achievement, negative social media outcomes)	K1- K3	8	1-3

BOOKS FOR STUDY

Santrock, John. *Adolescence*. 17th edition, Noida, McGraw-Hill Education, 2018.

Papalia, Diane, and Gabriela Martorell, *Human Development*. Noida, McGraw-Hill Experience 2020.

BOOKS FOR REFERENCE

Shaffer, David R., and Katherine Kipp. *Developmental Psychology: Childhood and Adolescence*. Delhi, Cengage Learning, 2013.

WEB RESOURCES

<https://shorturl.at/zPXZ8>

<https://rb.gy/7lv45d>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE : PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

PSYCHOLOGY CLASSICS

CODE: 23PY/UI/PC23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To help students understand and appreciate the process of self-taught material.
- To instill a deeper understanding of the self.
- To develop knowledge about the work of influential psychologists.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION
CO1	interpret and analyse original works of eminent psychologists.
CO2	develop the skills required to draft a self-learning plan/schedule.
CO3	apply learnt material to other course work

UNITS	CONTENT
1	Introduction to Personality Theories 1.1 Meaning and Definition of Personality 1.2 Personality and Human Nature 1.3 Myers Briggs- Understanding Personality Type 1.4 Mihaly Csikszentmihalyi- Creativity: Flow and the Psychology of Discovery and Invention
2	2.1 Daniel Goleman- Working with Emotional Intelligence 2.2 Robert E. Thayer- The Origin of Everyday Moods
3	3.1 Milton Erickson- My Voice Will Go With You 3.2 Viktor Frankl-The Will to Meaning
4	4.1 John Bowlby- Attachment Theory 4.2 Harry Harlow- The Nature of Love
5	5.1 John M. Gottman- Principles for Marriages 5.2 Flora Rheta Schreiber- Sybil

BOOKS FOR STUDY

Butler-Bowdon, T. *50 Psychology Classics: Who We Are, How We Think, What We Do Insight and Inspiration from 50 Key Books*. London, Nicholas Brealey Publishing, 2007.

Frankl, Viktor E. *Man's Search for Meaning: An Introduction to Logotherapy*. Boston, Beacon Press, 1962.

Schreiber, F. R. *Sybil: The True Story of a Woman Possessed by Sixteen Separate Personalities*. Ringwood, Penguin Books, 1975.

WEB RESOURCES

<https://bit.ly/3t73UP1>

<https://bit.ly/3PxetSL>

PATTERN OF ASSESSMENT

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Mark Allocation	No of Questions	No of Words
A	30 marks (10 x 3 marks)	10 (Answer All)	50 words
B	40 marks (5 x 8 marks)	8 (Answer any 5)	400 words
C	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Sc. DEGREE : PSYCHOLOGY

SYLLABUS

(Effective from the academic year 2023-2024)

PERSONALITY ENRICHMENT

CODE: 23PY/UI/PE23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To help students understand themselves in relationship with others
- To enable students improve their Interpersonal and communication skills
- To enable to students to effectively manage stress.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION
CO1	define personality in the psychological context
CO2	demonstrate an understanding of the various factors that determine personality
CO3	display better interpersonal relations and an assertive style of conflict resolution

UNITS	CONTENT
1	Introduction to Personality 1.1 Overview of Determinants of Personality: Physical, Intellectual, Emotional, Social, Education, Sex, and Family
2	Getting Acquainted with Ourselves 2.1 Self-Discovery 2.2 Self-Disclosure- Advantages; Johari Window 2.3 Self-Esteem- Strategies to improve Self– Esteem 2.4 Values- Development of Values, Clarifying Personal Values
3	Interpersonal Communication and Relationships 3.1 Communication Process 3.2 Verbal and Nonverbal Communication 3.3 Listening- Barriers to Listening 3.4 The Fear of Getting Acquainted- Inaccuracy in Social Perception 3.5 Developing Positive Relationships
4	Resolving Interpersonal Conflict 4.1 Causes of Conflicts 4.2 Positive and Negative effects of Conflicts 4.3 Behaviour Styles of Conflict Management 4.4 Learning to be Assertive

UNITS	CONTENT
5	Emotions & Stress 5.1 Characteristics of Emotions 5.2 Dealing with Emotions like Fear, Anxiety, Anger and Guilt 5.3 Stress- Causes 5.4 Tips for Managing Stress Emotions & Stress

BOOKS FOR STUDY

Hurlock, Elizabeth .*Personality Development*. New Delhi: Tata McGrawHill Publishing Co, Ltd. 2003.

Walker, Velma. Lynn Brooke. *Becoming aware*. Iowa:Kendall/Hunt Publishing Company.2009.

BOOKS FOR REFERENCE

Kindler, Herbert S. and Marilyn. Ginsburg, *Measure and Manage Stress*. California, Crip Publications and Inc.2004.

Schwebel, Andrew, I. and Harvey, A. Barocas. *Personal Adjustment and Growth*. U.S.A, Wm.C.Brown Publishers, 2000.

WEB RESOURCES

<https://bitly.ws/VXMc>

<https://bitly.ws/VXMi>

PATTERN OF ASSESSMENT

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Mark Allocation	No of Questions	No of Words
A	30 marks (10 x 3 marks)	10 (Answer All)	50 words
B	40 marks (5 x 8 marks)	8 (Answer any 5)	400 words
C	30 marks (2 x 15 marks)	4 (Answer any 2)	800 words



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

**B.S.W. DEGREE
SOCIAL WORK
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

DEPARTMENT OF SOCIAL WORK

PROGRAMME DESCRIPTION

The BSW programme in Social Work offers knowledge, values and skills necessary to explore Social Work as a profession. The curriculum offers human rights, social justice, policy, human behaviour, health, administration, gender and research courses that promote social and economic justice and enhance social functioning of individuals, families, groups, organisations and communities. The Field Work component allows students' to practice theoretical knowledge in various scenarios under the guidance and supervisions of faculty in NGO settings. It is an integral part of the programme to organise innovatively designed workshops, seminars and interactive programmes to facilitate in-depth learning. The programme provides students a platform and opportunities to pursue their higher studies and effect development at all levels.

The exercise for framing the Learning Outcome-based Curriculum Framework for BSW helped in consolidating the Programme Educational Objectives, Programme Outcomes and Programme Specific Objectives in the context of the Educational Objectives framed by the Institution. This process was useful in contextualizing the learning outcomes that students would attain on completion of the course. The themes such as Academic Knowledge, Skill Enhancement, Student Centric Learning, Social Responsibility and Eco-Friendly approaches and Sustainability are used to provide a basis for estimating outcomes of the course.

VISION OF THE DEPARTMENT

To build a body of knowledge relevant to Professional Social Work and shape Social Work professionals committed to development and social change founded on values of Truth, Justice and Peace.

MISSION OF THE DEPARTMENT

- Advocate a strong 'Rights Based Approach' in the curriculum.
- Identify development agendas that complement the profession.
- Share knowledge, views, new ideas and thus grow in professionalism.
- Establish effective working relationships through a wide range of networks, collaborations and field placements particularly with those who stand up for human rights and social justice.
- Facilitate students in finding viable linkages with Social Work agencies and other organizations.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On successful completion of the B.S.W. Programme, the students will be able to

PSO 1	graduates can identify development agendas of the profession that is globally relevant. Graduates will be able to use the 'Rights Based Approach' and 'Evidence Based Practice'. Graduates are equipped to become Social Work professionals committed to innovative practices for social change, development and research founded on values of truth, justice and peace.
PSO 2	graduates in Social Work can work in/promote social enterprise and demonstrate professional skills to empower the less privileged and vulnerable communities. Graduates can analyze and critically examine the context leading to social development.
PSO 3	graduates demonstrate personal and professional development from experiences based on student centric learning practices. Graduates explore and experiment to enhance their commitment and competence towards the profession.
PSO 4	graduates can contribute their knowledge, views, and innovative ideas to celebrate diversity and practice inclusion. Graduates become socially responsible citizens contributing to a peaceful society and country.
PSO 5	graduates establish partnerships, collaborative networking to promote equity, equality and sustainable environment thereby create a just and humane society.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
Bachelor of Social Work 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	3	4	4	4	4	4	4	4	3	4	3	4	21	24
Major Core			4	4	3	4			4	4	4	5	15	17
									4	4			4	4
			1		1				3	4	2		7	4
	1	8	1	8	1	8	3	8	3	8	4	16	13	56
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	141
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3					3	3					6	6
Soft Skills (EL)	3	3											3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies			2	2									2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL					2	2							2	2
Remedial/Library/FWC										1			0	1
Mentoring													0	0
											Total		4	3
Total	24	30+3*	26	30+3*	26	30+5*	26	30+3*	24	30+3*	23	30+5*	149	202

**Field Work extends outside the college hours*

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.S.W. DEGREE: SOCIAL WORK

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks										
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M	
SEMESTER-I										
23SW/MC/SP13	Social Work Profession-History and Philosophy	3	3	1	0	3	50	50	100	
23SW/MC/FW11	Field Work-I	1	0	0	8	1	50	-	100	
23SW/AC/SS15	Introduction to Sociology	5	5	0	0	3	50	50	100	
23SW/SS/HC13	Life Skills:Health, Energy and Computer Basics	3	3	0	0	-	50	-	100	
23EL/SS/PD13	Life Skills:Personlity Development (EL)	3	3	0	0	-	50	-	100	
CD / ET / SC	Value Education									
SEMESTER-II										
23SW/MC/CW24	Social Case Work	4	4	0	0	3	50	50	100	
23SW/MC/WG24	Social Group Work	4	4	0	0	3	50	50	100	
23SW/MC/FW21	Field Work-II	1	0	0	8	1	50	-	100	
23SW/MC/AM21	Alternative Media Skills in Social Work Practice	1	0	0	8	-	50	-	100	
23SW/AC/PY25	Introduction to Psychology	5	5	0	0	3	50	50	100	
23SW/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100	
	Basic Tamil I / General Elective I									
SEMESTER-III										
23SW/MC/SM34	Community Organisation and Social Action	4	4	0	0	3	50	50	100	
23SW/MC/FW31	Field Work III	1	0	0	8	1	50	-	100	
23SW/MC/RC31	Rural Camp	1	0	0	8	-	50	-	100	
23SW/MC/FS33	Fields of Social Work	3	3	1	0	3	50	50	100	
23SW/AC/IE35	Indian Economy and Development Issues	5	5	0	0	3	50	50	100	
23SW/SA/AW32	Societal Analysis for Social Workers-Workshop	2	2	0	0	-	50	-	100	
CD / ET / SC	Value Education									
	Basic Tamil II / General Elective II									
SEMESTER-IV										
23SW/MC/GP44	Generalist Practice in Social Work	4	4	0	0	3	50	50	100	
23SW/MC/FW43	Field Work IV	3	0	0	8	1	50	-	100	
23SW/AC/HR45	Human Rights, Social Justice and Advocacy	5	5	0	0	3	50	50	100	
23SW/SS/PS13	Life Skills:Personal and Social	3	3	0	0	-	50	-	100	
	Major Elective I									
SEMESTER-V										
23SW/MC/HC53	Health Care and Services	3	3	1	0	3	50	50	100	
23SW/MC/RS54	Basic Research and Statistics for Social Work	4	4	0	0	3	50	50	100	
23SW/MC/AD54	Social Welfare Administration	4	4	0	0	3	50	50	100	
23SW/MC/FW53	Field Work V	3	0	0	8	1	50	-	100	

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.S.W. DEGREE: SOCIAL WORK

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
23SW/MC/CN53	Basic Counselling in Social Work Practice	3	3	1	0	3	50	50	100
23SW/MC/ST50	Study Tour	CC							
Interdisciplinary Core (BSW and BBA) to students of BSW									
23ID/IC/SE55	Introduction to Social Enterprise Management	5	5	1	0	3	50	50	100
	General Elective III								
SEMESTER-VI									
23SW/MC/GD63	Gender and Development-Issues and Concerns	3	3	1	0	3	50	50	100
23SW/MC/FW64	Field Work VI	4	0	0	16	1	50	-	100
23SW/MC/PR64	Mini Research Project on Social Issues	4	3	0	2	-	50	50	100
23SW/MC/BP62	Block Placement	2	0	0	8	1	50	-	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective II								
	General Elective IV								
Major Electives									
23SW/ME/EI45	Ecology,Development and Social Work Intervention	5	5	0	0	3	50	50	100
23SW/ME/DR45	Social Work Intervention in Disaster Management	5	5	0	0	3	50	50	100
23SW/ME/DS45	Social Work with Persons with Disabilities	5	5	0	0	3	50	50	100
23SW/ME/FN45	Food, Nutrition and Food Security	5	5	0	0	3	50	50	100
General Electives									
23SW/GE/MH22	Migration Issues and Human Security	2	2	0	0	-	50	-	100
23SW/GE/MF22	Marriage and Family Life Education	2	2	0	0	-	50	-	100
23SW/GE/UN22	UN Systems for Development and Social Change	2	2	0	0	-	50	-	100
23SW/GE/HJ22	Human Rights and Justice Issues	2	2	0	0	-	50	-	100
23SW/GE/CP22	Conflict and Peace Building	2	2	0	0	-	50	-	100
Independent Elective									
23SW/UI/LT23	Leadership and Development	3	0	0	0	-	-	100	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

SOCIAL WORK PROFESSION - HISTORY AND PHILOSOPHY

CODE:23SW/MC/SP13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE:

- To enable students to gain an understanding of the history and philosophy of Social Work and its emergence as a Profession.
- To orient the students on Social Work methods.
- To support students in understanding Social Work as a Profession – its objectives, values and principles.
- To help students gain knowledge on the Models of Social Work.
- To develop an understanding of the various Professional Social Work Associations and organisations among students.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recognize the Principles of Social Work Profession	K1
CO2	examine the various Methods of Social Work	K2
CO3	analyze and practice ethical and professional behavior	K3
CO4	appreciate and Compare the different models of Social Work.	K4
CO5	build knowledge on the various professional Social Work associations	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Social Work Profession 1.1 Social Work Profession: Meaning and Definition of Social Work Profession. 1.2 Goals, Objectives and Principles of Social Work Profession. 1.3 Values and Code of Ethics of Social Work Profession (NASW).	K1-K5	11	1-5
2	Historical Development of Social Work Profession 2.1 Overview of Historical Development of Social Work in England and USA.	K1-K5	11	1-5

UNIT	CONTENT	CL	HRS	CO
	2.2 Overview of Historical Development of Social Work in India. 2.3 Contribution of Social Reformers – Raja Ram Mohan Roy, Sarojini Naidu, Periyar, Gandhi, Savitribai Phule, Dr. Muthulakshmi Reddy, Christian Missionaries Contributions of other Religions (Hinduism, Islam, Jainism, Buddhism) to Social Work in India.			
3	Definition and Meaning of Concepts relevant to Social Work 3.1 Social Service 3.2 Social Security 3.3 Social Change 3.4 Social Welfare 3.5 Social Policy 3.6 Social Planning 3.7 Social Action 3.8 Social Development 3.9 Social Justice 3.10 Empowerment	K1-K5	10	1-5
4	Introduction to Social Work Practice 4.1. A brief over view of the fields and methods of Social Work Practice. 4.2. Social work Theory- Nature, importance and Major Theory in Social Work - Problem Solving Model, Behaviour Modification Model, and Crisis Intervention Model. 4.3. Roles and skills of a Social Worker	K1-K5	10	1-5
5	Social Work Education and Practice 5.1. Social Work Education in India 5.2 Nature and content Fieldwork 5.3 Importance of field work supervision 5.4 Professional Associations - International Federation of Social Workers (IFSW), The National Association of Social Workers (NASW), National Association of Professional Social Workers in India (NAPSWI) and the Professional Social Worker's Association (PSWA). 5.5 International Social Work	K1-K5	10	1-5

BOOKS FOR STUDY

Bhattacharya: Sanjay: *Introduction to Social Work*, Deep and Deep Publications, New Delhi-2008.

Chowdhry Paul D. *Introduction to Social Work, History, Concept, Methods and Fields* Atmaram Publishers, 1964

Friedlander, WA: *Introduction to Social welfare* New York : Prentice Hall, 1982

Gangrade, K. D. *Dimensions of Social Work*, Marwah Publications, New Delhi Joshi, S., C. *Hand Book of Social Work*. New Delhi: Akansha, 2004.

Kulkarni, PD and MC Nanavati: *NGOs in the Changing Scenario* New Delhi: Uppal Publishing House, 1998

Pathak, S, *Social Work and Social Welfare*, Niruta Publications, 2012 Payne, M. *Modern Social Work Theory*. Oxford University Press, 2021.

BOOKS FOR REFERENCE

Adams, R. *Social Work and Empowerment*. New York: Palgrave Macmillan, 2003.

Alston, M. and Mckinnon, J. *Social Work – Fields of Practice*. Australia: Oxford U P, 2003.

Banks, S. *Ethics and Values in Social Work*. New York: Palgrave Macmillan, 2001.

Black, K., J. *Development in Theory and Practice- Paradigms and Paradoxes*. Jaipur: Rawat, 2007.

Bogo, M. *Social Work Practice- Concepts, Processes and Interviewing*. New York: Columbia University Press, 2006.

Clark, L., C. *Social Work Ethics – Politics, Principles and Practice*. New York: Palgrave Macmillan, 2001.

Desai, M. *Ideologies and Social Work- Historical and Contemporary Analyses*. Jaipur: Rawat, 2006.

Doel, M. and Shardlow, M., S. *Modern Social Work Practice- Teaching and Learning in Practice Settings*. London: Ashgate, 2005.

Dominelli, L. *Social Work-Theory and Practice for a Changing Profession*. New Delhi: Rawat, 2005.

Subhedar, T. S. *Field Work Training in Social Work*. Jaipur: Rawat, 2001.

Sumit Dutta. *Social Work and Social Development*. New Delhi: Wisdom Press, 2013.

Thompson, N. *Understanding Social Work- Preparing and Practice*. New York: Palgrave Macmillan, 2002.

JOURNAL

The Journal of Social Work Education (JSWE)

WEB RESOURCES

www.socialworktoday.com www.cswe.org www.naswdc.org

www.ifsw.org: International Federation of Social Workers

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/SP13												
I	Course title: SOCIAL WORK PROFESSION-HISTORY AND PHILOSOPHY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	2	2	2	2	3	2	3	3	3	2	2	3
CO 2	3	2	3	3	3	3	3	3	2	2	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	2	3	2	2	2	2
CO 5	2	2	2	2	2	2	2	2	2	2	3	2	2
High Correlation: 3				Moderate Correlation: 2					Low Correlation: 1				

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

FIELD WORK-1

CODE: 23SW/MC/FW11

CREDITS:1

OBJECTIVES OF THE FIELDWORK:

- To understand the role of Social Workers and to retain information on projects of Government and Non-Government organizations.
- To assist in understanding one's own self
- To apply skills on report writing and documentation
- To evaluate the importance of interpersonal and communication skills
- To analyze the skills of Goal setting and Time management

COURSE LEARNING OUTCOMES

On successful completion of Field Work, students will be able to:

COs	DESCRIPTION	CL
CO1	explain the structure and functioning of the Government and Non-Government organizations and role of Social Workers	K1
CO2	apply report writing and documentation skills	K2
CO3	analyze the various projects of Government and Non- Governmental organizations	K3
CO4	evaluate interpersonal and communication skills	K4
CO5	improve knowledge on skills related to goal setting and time management	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Lab Sessions and Orientation Visits

- Sessions on life skills, soft skills, professional skills and awareness sessions on contemporary issues/topics.
- Visits to Governmental and Non-Governmental Organizations to obtain an orientation about the agency and its functioning.

UNIT	CONTENT	CL	HRS	CO
1	Self-Awareness (Self-Concept, Self-esteem, Self-Confidence) and SWOC Analysis Report writing and Documentation	K1	12	1
2	Interpersonal skills Communication skills	K2	12	2

UNIT	CONTENT	CL	HRS	CO
3	Goal setting Time Management	K3	12	3
4	Visits to Government and Voluntary Organizations related to Women and Children.	K4	12	4
5	Visits to Government and Voluntary Organizations related to Elderly and Environment.	K5,K6	12	5

PATTERN OF ASSESSMENT

End-Semester Examination:

Total Marks: 50

Cognitive Level	Pattern	Mark Distribution
K1	To fulfill requirements of Attendance for Field Work-Lab sessions Orientation Visits. Regular submission of Reports and attending Field Work Conference with Faculty Supervisor	5 (2+3)
K2	Submission of Field Work Record	5
K3	Consolidated Report that will include reports of lab sessions and orientation visits for the assessment	5
K4	Individual presentation of work with the internal supervisor	10
K5	Personal and professional Skills acquired	10
K6	Viva Voce with internal Field Work Faculty Supervisor	15

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/FW11												
I	Course Title: FIELD WORK-1												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO SOCIOLOGY

CODE: 23SW/AC/SS15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand Sociology as a discipline, its relevance to Social Work and to develop an understanding of basic Sociological concepts about society
- To identify social structure, social stratification, patterns and dynamics of social interaction and its impact.
- To gain insight on the Indian social system, social phenomena and social institutions.
- To develop the ability to analyze the impact of social change in society.
- To create an interest and commitment to change society for the better.

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe and infer the use of Sociology and its implication in Social Work Practice	K1
CO2	demonstrate the dynamics of social stratification and its impact on individuals and communities	K2
CO3	analyse the importance of Social Institutions and their role in the development of individuals	K3
CO4	evaluate Social Change in India	K4
CO5	develop ideas on the application of Social Work methods in resolving social problems.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Individual in Society 1.1 Sociology as a discipline – Definition and Major areas, Sociology and its relation to Social Work 1.2 Society – Definition, Characteristics, Types 1.3 Socialisation – Definition, Meaning, Process, Agents and Functions 1.4 Culture – Definition, Meaning, Components of Culture, Cultural Lag 1.5 Social Control – Definition, Meaning, Forms and Functions 1.6 Definition, Meaning, Characteristics – Norms, Folkways and Mores 1.7 Social Groups – Definition, Meaning, Types 1.8 Social Processes – Cooperation, Competition, Conflict, Accommodation and Assimilation	K1-K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
2	Social Stratification 2.1 Caste and Class – Definition, Difference between Caste and Class, Changing Patterns, Impact of Caste on Indian Society 2.2 Gender Roles, Gender issues and Gender Discrimination in India 2.3 Social Mobility – Definition, Meanings, forms of Social Mobility	K1-K5	10	1-5
3	Social Institutions 3.1 Marriage: Definition, Meaning, Types, Functions, Changing Trends 3.2 Family: Definition, Meaning, Types, Functions, Changing Patterns 3.3 Kinship: Definition, Meaning, Types 3.4 Religion: Definition, Meaning, Functions	K1-K5	12	1-5
4	Social Change and Social Movements 4.1 Concept of Social Change, Factors Contributing to Social Change, acceptance or Resistance to Social Change, Causes for Social Change in India 4.2 Social Movements – Definition, Meaning, Types and factors essential for Social Movements	K1-K5	13	1-5
5	Social Problems in India 5.1 Social Problems - Definition, Meaning, Types, Causes of Social Problems in India, Poverty, Unemployment, Crime, Corruption, Addiction, Illiteracy, Issues related to Health, Ecological Rights and Climate Justice, Human Trafficking.	K1-K5	17	1-5

BOOKS FOR STUDY

Rao Shankar, C.N. *Principles of Sociology*. New Delhi: S. Chand, 2018
 Bushan Vidya., Sachdeva. D.R., *Introduction to Sociology*, New Delhi, Kitab Mahal, 2014.

BOOKS FOR REFERENCE

Ram, Ahuja. *Social Problems in India*. Jaipur and New Delhi: Rawat, 2014.
 Dhanagare, D., N. *Indian Sociology*. Jaipur and New Delhi: Rawat, 1993.
 Frances, V., Moulder. *Social Problems of the Modern World. U.S.A.:* Eve Harward, 2000.
 Mac, Iver R., M. and Page, C., H. *Society: An Introductory Analysis*. Chennai: Macmillan, 1990.
 Sharma, Rajendra, K. *Indian society – Institutions and Change*. New Delhi: Atlantic, 1997.
 Shepard, Jon, M. *Sociology*. New York: West Publishing Co, 1981.
 Upadhyaya, Sharma, V., P. *Contemporary Indian Society* New Delhi: Anmol, 1992.

JOURNALS

Journal of Sociology
 Society for the study of Social Problems

WEB RESOURCES

<https://egyankosh.ac.in/handle/123456789/71833> BSW-122 Society, Social Institutions and Social Problems
<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=sP9KhysDemvbqPHPOAmaYw==>
 E-Pg-Pathshala – Sociology

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/AC/SS15												
I	Course Title: INTRODUCTION TO SOCIOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS – HEALTH, ENERGY AND COMPUTER BASICS

CODE:23SW/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1 (13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group Discussions

Group Presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

**Soft Skills Course Offered by the Department of English for
B.A / B.Sc / B.Com / B.B.A/ B.S.W / B.C.A. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

LIFE SKILLS: PERSONALITY DEVELOPMENT

CODE: 23EL/SS/PD13

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To make students aware of their strengths and weaknesses
- To help them hone their communication skills
- To equip them with skills required to raise self-esteem and confidence levels
- To help them acquire competencies to achieve personal and academic excellence
- To enable students to become effective team players

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify strengths and weaknesses in themselves and others.	K1
CO2	relate with others through effective communication and body language.	K2
CO3	make use of interpersonal skills in team work, and organise their activities.	K3
CO4	survey the opportunities for learning and growth.	K4
CO5	evaluate their strengths, weaknesses, opportunities and threats, and develop their personality.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	<u>Self Awareness</u> 1.1 Self esteem 1.2 Strengths and weaknesses 1.3 Accepting oneself 1.4 Giving/receiving compliments 1.5 Giving/receiving constructive criticism	K1-K6	13	1-4
2	<u>Personal Effectiveness</u> 2.1 Interpersonal skills – Communication and listening skills 2.2 Creative thinking 2.3 Dealing with stress 2.4 Adapting to change 2.5 Team work and group dynamics 2.6 Leadership skills	K1-K6	13	1-5
3	<u>Charting the Future</u> 3.1 Time management 3.2 Goal setting 3.3 Choice of career/vocation 3.4 Career mapping	K1-K6	13	1-5

BOOKS FOR REFERENCE:

Alex, K *Soft Skills: Know Yourself and Know the World*. S. Chand, 2009.
 Botton, Alain de. *How Proust Can Change Your Life*. Vintage, 1998.
 Covey, Stephen R. *The 7 Habits of Highly Effective People*. Franklin Covey Co., 2016.
 Khera, Shiv. *You Can Win*. Macmillan, 1998.
 Krznairc, Roman: *How to Find Fulfilling Work: Volume 2 of School of Life*. Pan Macmillan. 2012.
 Mishra, Rajiv K. *Personality Development: Transform Yourself*. Rupa, 2004.
 Nair, Radhakrishnan et al., *Facilitator's Manual on Enhancing Life Skills*. RGNIYD, 2009.

WEB SOURCES

<http://www.macmillanenglish.com/life-skills/>
<https://www.lifeskillsgroup.com.au/>
https://onlinecourses.nptel.ac.in/noc17_hs31/
<https://www.theschooloflife.com/>

PATTERN OF ASSESSMENT:**Continuous Assessment :**

Two Classroom Tasks

Total Marks:50**List of Tasks**

Oral Presentations/Panel Discussions/Group Presentations/Role-Plays/Case Studies/Poster-making

Knowledge Level	Marks
K1	5
K2	5
K3	10
K4	10
K5	10
K6	10

No End-Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL CASE WORK

CODE: 23SW/MC/CW24

CREDITS:4

L T P:4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce students to direct method of Social Work practice – Social Case Work
- To enable students to identify the appropriate usages of Social Case Work practice
- To equip students with knowledge in various models of Case work.
- To analyse the skills and techniques of Social Case Work
- To develop an understanding on interviewing, recording and supervision in Social Case Work

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand and acquire knowledge in the practice of Social Case Work	K1
CO2	apply knowledge and enable people to solve their problems.	K2
CO3	analyze and demonstrate the various skills and techniques of Social Case Work	K3
CO4	understand the current trends in Social Case Work	K4
CO5	formulate the skills acquired in Practice of Social Case work	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Historical Evolution of Case Work in the West and India 1.2 Definition, Meaning of Social Case Work, Social Case Work as a method of Social Work. 1.3 Objectives, Principles, Philosophy of Social Case Work 1.4 Limitations of Social Case Work practice in India	K1-K5	10	1-5
2	Components of Social Case Work 2.1 Values of Social Case Work 2.2 Components of Social Case Work 2.3 Social Case Work process	K1-K5	11	1-5

UNIT	CONTENT	CL	HRS	CO
3	Models of Social Case Work 3.1 Models of Social Case Work – Basic Principles of Psychosocial Model, Functional Model, Problem Solving Model, Behaviour Modification Model and Crisis Intervention Model 3.2 Client-caseworker Relationship.	K1-K5	11	1-5
4	Skills and Techniques of Social Case Work Social Case Work 4.1 Skills in Social Case Work 4.2 Techniques of Social Case Work 4.3 Role of a Social Case Worker in different settings- Medical, Child Guidance Clinics, Correctional Settings, Family and Child welfare Settings and Geriatric care.	K1-K5	10	1-5
5	Interviewing, Recording and Supervision in Social Case Work 5.1 Interviewing – Meaning, Definition, Relationship between Interviewer and Interviewee. 5.2 Recording in Social Case Work – Definition, Types, Need and Importance of Recording. 5.3 Supervision in Case Work – Meaning, Need and Importance.	K1-K5	10	1-5

BOOKS FOR STUDY

Friedlander, W.A., *Concepts and methods of Social work*, New York, Englewood Cliffs: Prentice Hall 1976.

Hamilton Gordon, New Delhi, *Social case Work, An Introductory*, Rawat Publications 2013.

BOOKS FOR REFERENCE

Davies, M., *Companion to Social Work*, New York: Atlantic Publishers, 2002.

Devi, R. and Prakash, R., *Social Work Methods - Practices and Perspectives*. Jaipur: Mangal Deep Publications, 2004.

Encyclopedia of Social Work Vol. 1,2,3, *National Association of Social Workers*. Washington D.C: NASW, 1996.

Gangarade, K., D., *Dimensions of Social Work in India*. New Delhi: Marawah 1976. Joshi, S., C., *Hand Book of Social Work*. New Delhi: Akansha Publishing House, 2004. Kumar, Hajira, *Theories in Social Work Practice*. New Delhi: Friends, 1995.

Thompson, N., *Understanding Social Work - Preparing and Practice*. New York Palgrave Macmillan, 2002.

JOURNALS

The Indian Journal of Social Work

WEB RESOURCES

www.socialworkers.org

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/CW24												
II	Course Title: Social Case Work												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	2	2	2	2	2	3	2	3	3
CO 2	2	2	3	3	3	2	2	3	3	3	3	2	3
CO 3	3	2	3	2	2	3	3	3	2	3	2	3	2
CO 4	3	3	3	3	3	2	2	2	3	2	2	2	2
CO 5	2	3	2	2	2	3	3	3	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL GROUP WORK

CODE:23SW/MC/WG24

CREDITS:4

LTP:4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand Social Group Work as a Primary method of Social Work.
- To identify social groups, patterns and dynamics of Social Groups and the influence of social groups in communities.
- To gain insight on the appropriate usages of Social Group Work practice
- To develop in students, the ability to analyze the models of Social Group.
- To create an interest and commitment to use social group work as an intervention strategy.

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe and infer the concept of Social Groups and their implication in Social Work Practice	K1
CO2	demonstrate the use of Social Group Work and its impact	K2
CO3	analyse the components of Social Group Work	K3
CO4	evaluate the models of Social Group Work	K4
CO5	develop ideas on the application of Social Group Work methods in resolving problems.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Social Group 1.1 Meaning and Definition of Social Group 1.2 Characteristics, Functions and Nature of Social Groups 1.3 Types of Social Groups 1.4 Need for Social Groups	K1-K5	10	1 – 5

UNIT	CONTENT	CL	HRS	CO
2	Introduction to Social Group Work 2.1 Historical Evolution of Group Work 2.1 Definition, Meaning, Values of Social Group Work 2.2 Social Group Work as a method of Social Work 2.3 Objectives, Principles, Assumptions of Social Group Work	K1-K5	10	1-5
3	Components of Social Group Work 3.1 Stages and Phases of Social Group Work 3.2 Social Group Work process 3.3 Concept of - Group Leadership, Group Dynamics, Group Process 3.4 Programmes in Social Group Work - Concept, Nature	K1-K5	11	1-5
4	Models, Skills and Techniques of Social Group Work 4.1 Models of Social Group Work – Social, Remedial and Reciprocal 4.2 Skills in Social Group Work 4.3 Techniques of Social Case Work	K1-K5	11	1-5
5	Recording and Role of a Social Group Worker 5.1 Recording in Social Group Work – Importance of Recording, 5.2 Role of a Social Group Worker in different settings – Medical, Child Guidance Clinics, Correctional Settings, Family and Child Welfare Settings and Geriatric Care 5.3 Introduction to Group Work Practice in India	K1-K5	10	1-5

BOOKS FOR STUDY

Siddiqui, H. Y., Group Work: Theories and Practices. Jaipur: Rawat Publications, 2008.
 Konopka, G., Social Group Work - A Helping Process, New York: Englewood Cliffs, 1972.
 Trecker, Harleigh, B., Social Group Work- Principles and Practice, New York; Association Press, 1970.

BOOKS FOR REFERENCE

Davies, M., Companion to Social Work, New York: Atlantic Publishers, 2002.
 Encyclopedia of Social Work Vol. 1,2,3, National Association of Social Workers. Washington D.C: NASW, 1996.
 Gangarade, K., D., Dimensions of Social Work in India. New Delhi: Marawah 1976.
 Garvin, D., Gutierrez, M. and Galinsky, J., Handbook of Social Work with Groups. Jaipur: Rawat Publications, 2004.
 Joshi, S., C., Hand Book of Social Work. New Delhi: Akansha Publishing House, 2004.
 Kumar, Hajira, Theories in Social Work Practice. New Delhi: Friends, 1995.
 Thompson, N., Understanding Social Work - Preparing and Practice. New York Palgrave Macmillan, 2002.

JOURNALS

The Indian Journal of Social Work

WEB RESOURCES

<https://egyankosh.ac.in/youtubevideo.jsp?src=uOluACKIMi4&title=Social+Group+Work>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/WG24												
II	Course Title: Social Group Work												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	2	3	3	3	3
CO 2	3	2	3	3	3	2	2	3	3	2	2	3	2
CO 3	2	3	2	2	2	3	3	3	2	3	3	3	3
CO 4	3	3	3	3	3	2	2	2	2	2	2	2	2
CO 5	2	3	2	3	2	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

FIELD WORK-II

CODE: 23SW/MC/FW21

CREDITS:1

OBJECTIVES OF THE COURSE

- To know and understand the role of Social Workers in Government and Non-Government organizations.
- To comprehend the range of values applicable in Social Work
- To apply skills on report writing and documentation
- To analyze the strategies in coping with emotions
- To evaluate the importance of creative thinking and critical thinking

COURSE LEARNING OUTCOMES

On successful completion of Field Work, students will be able to:

COs	DESCRIPTION	CL
CO1	know the structure, functioning and projects of the Government and Non-Government organisations	K1
CO2	understand the role of Social Workers in Government and voluntary organisations related to health and communities	K2
CO3	apply Stress Management techniques by understanding the stressors	K3
CO4	evaluate creative thinking and critical thinking skills	K4
CO5	develop skills in problem solving and decision making	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

Lab Sessions and Orientation Visits

- Sessions on life skills, soft skills, professional skills and awareness sessions on contemporary issues and topics.
- Visits to Governmental and Voluntary Organizations to obtain an orientation about the agency and its functioning.

UNIT	CONTENT	CL	HRS	CO
1	Understanding and experiencing Social Work in practice through Visits to Government and Voluntary Organizations and Marginalized Communities.	K1	12	1
2	Understanding and experiencing Social Work in practice through Visits to Government and Voluntary Organisations, Community based Organizations, Visit to Community	K2	12	2
3	Participation in Lab Sessions/Skilling Sessions that build Values in Social Work, provide an overview on Stress Management	K3	12	3
4	Participation in Lab Sessions/Skilling sessions that provide an overview on Critical thinking and promote Creative thinking	K4	12	4
5	Participation in Lab Sessions/Skilling sessions that provide an overview on Problem solving and promote Decision making	K5-K6	12	5

PATTERN OF ASSESSMENT

END SEMESTER EXAMINATION - VIVA VOCE

Viva Voce Examination by Internal Faculty

Mark Distribution for K Levels in End Semester Viva Voce Examination by Internal Faculty

Cognitive Level	Pattern	Mark Distribution
K1	To fulfil requirement of Attendance for Field Work-Lab Sessions Orientation Visits. Regular submission of Reports and attending Field Work Conference with Faculty Supervisor	5 (2+3)
K2	Submission of Field Work Record	5
K3	Consolidated Report that will include reports of lab sessions and orientation visits for the assessment	5
K4	Individual presentation of work with the internal supervisor	10
K5	Personal and Professional Skills acquired	10
K6	Viva Voce with Internal Field Work Faculty Supervisor	15

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/FW21												
II	Course Title: Field Work-II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	2	3	3	3	3
CO 2	3	2	3	3	3	2	2	3	3	2	2	3	2
CO 3	2	3	2	2	2	3	3	3	2	3	3	3	3
CO 4	3	3	3	3	3	2	2	2	2	2	2	2	2
CO 5	2	3	2	3	2	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

ALTERNATIVE MEDIA SKILLS IN SOCIALWORK PRACTICE

CODE:23SW/MC/AM21

CREDITS:1

OBJECTIVES OF THE COURSE

- To learn the different forms of folk arts.
- To increase sensitivity among to the use of Alternative Media Skills in communities.
- To help students appreciate the aesthetics in Alternative Media forms.
- To develop in students Alternative Media Skills through an understanding of theory and skills practice sessions.
- To integrate Alternative Media Skills in Social Work practice

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe and infer different forms of folk arts.	K1-K2
CO2	demonstrate the use of Alternative media skills in Social Work Practice.	K3
CO3	analyse different forms of folk arts.	K4
CO4	evaluate the Alternative Media forms and their effectiveness	K5
CO5	develop ideas on the application of Alternative media skills in Social Work Practice.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Awareness on Social Issues 1.1 Sensitization on contemporary social issues 1.2 Selection of the social issues for creating scripts for Street theatre, folk song, folk dances and puppetry.	K1-K6	6	1 – 3
2	Introduction to Alternative Media Skills 2.1 Introduction to Alternative Media Skills. 2.2 The importance of Alternative Media Skills in Social Work Practice.	K1-K6	6	1 – 3

UNIT	CONTENT	CL	HRS	CO
3	Different forms of folk art 3.1 Street theatre 3.2 Folk songs 3.3 Folk dances 3.4 Puppetry 3.5 Final performance in the community	K1-K6	14	4 – 5

METHODS OF ASSESSMENT

Cognitive Level	Pattern	Mark Distribution
K1	To fulfil requirements of Attendance for Alternative Media	5
K2	Submission of day-wise reports	5
K3	Involvement in various team activities	5
K4	Consolidated Report that will include with photographs	15 (10+5)
K5	Personal and Professional Skills acquired	10
K6	Final Day Performance	10

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/AM21												
II	Course Title: ALTERNATIVE MEDIA SKILLS IN SOCIALWORK PRACTICE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	2	3	3	3	3
CO 2	3	2	3	3	3	2	2	3	3	2	2	3	2
CO 3	2	3	2	2	2	3	3	3	2	3	3	3	3
CO 4	3	3	3	3	3	2	2	2	2	2	2	2	2
CO 5	2	3	2	3	2	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO PSYCHOLOGY

CODE: 23SW/AC/PY25

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand Psychology as a discipline and its relevance to Social Work
- To orient about human growth and development.
- To gain knowledge about major psychological perspectives (concepts and theories)
- To develop the ability to know about self and others
- To create an interest in understanding the relationship between human behaviour and mental process.

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on the key concepts in psychology	K1
CO2	explain human growth and development	K2
CO3	relate the importance of psychological theories and concepts and its impact in the development of individuals.	K3
CO4	critically examine the ability to know about self and understand others	K4
CO5	gain insight on the application of Social Work interventions in resolving psychological issues.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Psychology 1.1 Meaning and Definition of Psychology, Nature and scope of Psychology 1.2 Fields of Psychology, Psychological perspectives 1.3 Psychology in relation to other social sciences and natural sciences	K1-K5	10	1 – 5

UNIT	CONTENT	CL	HRS	CO
2	Concepts in Psychology 2.1 Meaning and Definition of Personality, Psychoanalytic Approach (Sigmund Freud), Humanistic Approach (Abraham Maslow), Psychosocial Approach (Erik Erikson) 2.2 Meaning and Definition of Perception, Factors affecting perception, Perception Process 2.3 Definition of Learning – Classical Conditioning and Operant Conditioning	K1-K5	13	1-5
3	Human Development - I 3.1 Significant Facts about Development, Developmental Tasks during the Life Span, Stages in the Life Span 3.2 Prenatal Development: Preliminary Stages of Development – Maturation, Ovulation and Fertilisation, Importance of Conception, Stages of Prenatal Development – Period of the Zygote, Embryo and Foetus, Factors affecting Prenatal Development 3.3 Infancy and Childhood - Physical Growth, Motor Development, Cognitive Development, Social and Emotional Development	K1-K5	12	1 – 5
4	Human Development - II 4.1 Adolescence- Physical Changes, Emotional, Cognitive and Social aspects of Development 4.2 Adulthood- Characteristics of Early, Middle and Late Adulthood, Needs and tasks in the family, community and work 4.3 Old Age – Adjustment to Physical Changes, Changes in Motor abilities, Mental Abilities and Interests, Hazards to Personal and Social Adjustments in Old Age	K1-K5	13	1-5
5	Stress, Conflict and Adjustment 5.1 Stress - Concept and Causes of Stress, Stress management techniques. 5.2 Conflict - Concept and Types of Conflict, Ego Defense Mechanisms 5.3 Concept of Adjustment and Characteristics of a well-adjusted person	K1-K5	17	1 – 5

BOOKS FOR STUDY

Hurlock, Elizabeth. Developmental Psychology a Life-Span Approach. New Delhi: Tata McGraw-Hill, 2007.

Mangal, S.K. (2006) An Introduction to Psychology, Sterling Publishers Pvt. Ltd.

Morgan Clifford T., King, Richard A. (et.al). Introduction to Psychology. New Delhi: McGraw Hill Education (India) Private Limited, 2016

BOOKS FOR REFERENCE

Ciccarelli Sandra K., and Meyer Glenn E. Psychology. New Delhi: Dorling Kindersley Pvt. Ltd, 2012

Hall Calvin, Lindzey Gardner. Introduction to Personality Theory. New York: John Wiley and Sons, 2000

Misra, Girishwar Misra (2011) Handbook on Psychology in India, New Delhi Oxford University Press

Newman and Newman. Development through Life. U.S.A: Thomson Wadsworth, 2003. Nolen, Susan (et.al.) Atkinson & Hilgard's Introduction to Psychology. New Delhi: Cengage Learning India Private Limited, 2014

Schwebel, Andrew, I. Harvey, A. Barocas. Personal Adjustment and Growth. U.S.A: Wm.C. Brown Publishers, 2000

WEB RESOURCES

Frontiers in Psychology (<https://www.frontiersin.org/journals/psychology>)

Archives of Scientific Psychology (<https://psycnet.apa.org/PsycARTICLES/journal/arc/6/1>)

BMC PSYCHOLOGY (<https://bmcpublishing.biomedcentral.com/>)

<https://www.psywww.com/careers/specialt.html>

www.worthpublishers.com/hockenbury

<https://courses.lumenlearning.com/ws-sandbox/chapter/gestaltprinciples-ofperception/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
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D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/AC/PY25												
II	Course Title: Introduction to Psychology												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
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CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course offered to students of
B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A / B.S.W Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23SW/GC/ES12

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies; Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-energy resources: renewable and non-renewable sources, impact of over-exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and *ex-situ* conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects and control measures -Impact of over-population on pollution and health – carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations Sustainable Development Goals of the 2030 Agenda
- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster

- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan
International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences

Journal of Environmental Studies

WEB RESOURCES

www.enn.com

www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 25 Duration: 60 minutes

Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions

Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: Total Marks: 25

Any **one** of the following for 25 marks

Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

COMMUNITY ORGANISATION AND SOCIAL ACTION

CODE: 23SW/MC/SM34

CREDITS: 4

L T P:4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To define Community Organisation and Social Action as methods of Social Work
- To enable students to understand the usage of Community Organisation and Social Action in appropriate situations
- To acquire insights into the various approaches and models of Community Organisation and Social Action
- To analyse the various Social Action Movements
- To assess the role and functioning of Community Organisation and Social Action in the society

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the use of Community Organisation as a method of Social Work intervention	K1
CO2	understand needs of the people in the Community from a macro perspective and to use Community Organisation and Social Action appropriately	K2
CO3	familiarize themselves with the role of Community Organiser in the Community setting	K3
CO4	distinguish the objectives of the various Social Action Movements in India	K4
CO5	validate the need and importance of Community Organisation and Social Action in the Society	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Community - Definition, Meaning 1.2 Community Development – Definition, Meaning 1.3 Community Organisation – Concept, Definition, Objectives, Philosophy, Principles 1.4 Evolution of Community Organisation as a Method in Social Work 1.5 Steps in Community Organisation – Assessment of Needs and Problems, List the Problems, Prioritising the Needs, Understanding and Selection of Problem, Redefine the Problem, Formulate Achievable Objectives, Work out the Alternatives, Work out a Plan of Action, Mobilisation of Resources. Implement the Plan of Action, Evaluate the Action 1.6 Relevance and Difference between Community Organisation and Community Development	K1-K5	11	1 – 5
2	Models and Approaches in Community Organisation 2.1 J. Rothman- Social Planning, Locality Development, Social Action 2.2 Murray Ross- General Content, Specific Content, Process Objective 2.3 Siddiqui – Neighbourhood Development Model, System Change Model and Structural Change Model 2.4 Approaches to Community Organisation – Robert Fisher’s Approach – Social Work Approach, Political Activist Approach, Neighbourhood Maintenance Approach, 2.5 Role of Community Organiser 2.6 Community Organisation as a Method of Social Work	K1-K5	10	1-5
3	Leadership and Participation in Community 3.1 Power – Concept and Dimensions 3.2 Leadership - Meaning, Types, Functions of Leadership 3.3 Participatory Development - Concept, Principles, Factors promoting Participation and hindering Participation 3.4 Introduction to Participatory Rural Appraisal (PRA) and Rapid Rural Appraisal (RRA)	K1-K5	10	1 – 5

UNIT	CONTENT	CL	HRS	CO
4	Social Action 4.1 Concept, Definition, Principles, Skills and Objectives of Social Action 4.2 Social Action – as a method of Social Work, Strategies of Social Action 4.3 Typology of Social Action – Elitist Social Action, Popular Social Action 4.4 An Introduction to Social Action Models – Paulo Freire and Saul Alinsky	K1-K5	10	1 – 5
5	An Introduction to Social Action Movements in India 5.1 Gandhian Movement (Satyagraha and Sarvodaya) 5.2 Mahala Mukti Morcha Movement 5.3 Narmada Bachao Andolan 5.4 Dalit Movement 5.5 Naxalbari Movement 5.6 Self Help Group Movement 5.7 Self-Respect Movement (Tamil Nadu)	K1-K5	11	1 – 5

BOOKS FOR STUDY

Kumar, S., *Methods for Community Participation – A Complete Guide for Practitioners*. New Delhi: Vistaar Publications, 2015

BOOKS FOR REFERENCE

Ross, Murray, G., *Community Organisation: Theory, Principles and Practice*. New York: Harper and Row, 1955.
 Devi, R., Prakash, R., *Social Work Methods, Practices and Perspectives Vol 1, 2, 3*. Jaipur: Mangal Deep, 2004.
 Josi, A., K., *Emigration and Social Change*. Jaipur: Rawat Publications, 2005.
 Katare, M., P., *Social Work and Rural Development*. New Delhi: Arise, 2006.
 Maidment, J., Egan, R., *Practice Skills in Social Work and Welfare - More Than Just Common Sense*. Australia: Allen and Unwin, 2006.
 Nash, M., Mundford, R., Donoghue, K., *Social Work Theories in Action*. London: Jessica Kingsley, 2005.
 Rao, M., S., A., *Social Movements in India*. New Delhi: Manohar, 2004.
 Srinivas, M., N., *Social Change in Modern India*. New Delhi: Orient Longman, 2003.
 Thompson, N., *Understanding Social Work - Preparing and Practice*. New York: Palgrave Macmillan, 2002

JOURNALS

Community Development Journal-<http://www.oxfordjournals.org/>

WEB RESOURCES

[www.betterworldhandbook.com/action10\(orgs\).html](http://www.betterworldhandbook.com/action10(orgs).html)
www.who.int/healthpromotion/conferences

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 Minutes**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/SM34												
III	Course Title: COMMUNITY ORGANISATION AND SOCIAL ACTION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	1	1	1	2	1	3	1	2	3	2	2
CO 2	3	3	1	2	2	2	1	3	2	3	2	1	2
CO 3	3	3	2	1	3	3	2	3	3	2	2	3	2
CO 4	3	3	2	1	1	1	1	1	2	1	3	2	2
CO 5	1	3	2	2	2	3	2	3	2	1	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI-600086

B.S.W. DEGREE: BACHELOR OF SOCIALWORK

SYLLABUS

(Effective from the academic year 2023–2024)

FIELDWORK-III

CODE: 23SW/MC/FW31

CREDITS:1

OBJECTIVES OF THE COURSE

- To understand the organization, its philosophy, goals and the role of social worker.
- To apply the skills related to the methods of social work.
- To analyze the problems of the society.
- To examine the goals of the organisation and the role of the social worker in the organization.
- To build rapport with the community and establish a professional relationship.

COURSE LEARNING OUTCOMES

On successful completion of Course, students will be able to:

COs	DESCRIPTION	CL
CO1	Understand the organization, its philosophy, goals and the role of social worker.	K1, K2
CO2	Practice the skills related to the methods of social work.	K3
CO3	Analyze the problems of the society.	K4
CO4	Examine the goals of the organisation and the role of the social worker in the organization.	K5
CO5	Build rapport with the community and establish a professional relationship.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Orientation on Organization - Undergoing orientation on the Organization, its administrative structure, the profile of the target group being served, policies and schemes being implemented and other relevant details. 1.2 Organizational Profile - Collecting details about the Organisation from the Head/leaders, the target group and other sources and creating the Organization profile.	K1-K6	16	1-3

UNIT	CONTENT	CL	HRS	CO
2	2.1 Visit to Community - Undertaking visits in areas where communities / target groups being supported by the organization are located. 2.2 Community profile – Creating Profiles of the Communities using tools and techniques.	K1-K6	16	3-5

PATTERN OF ASSESSMENT

Cognitive Level	Pattern	Mark Distribution
K1	To fulfil requirements of Attendance for Concurrent Field Work and attending Field Work Conference	5 (2+3)
K2	Submission of Field Work Record with Organisation Profile and / or Community Profile	5
K3	Consolidated Report of Concurrent Field Work	5
K4	Individual presentation of work with the internal supervisor	10
K5	Personal and Professional Skills acquired	10
K6	Viva Voce with Internal Field Work Faculty Supervisor	10

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/FW31												
III	Course Title: FIELD WORK – III												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	3	3	3	2	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	2	3	3
CO 3	2	3	2	3	2	3	3	3	3	2	2	3	3
CO 4	3	3	2	2	2	2	2	3	3	2	2	2	3
CO 5	2	3	2	2	2	3	2	3	3	2	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI-600086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

RURAL CAMP

CODE:23SW/MC/RC31

CREDITS:1

The students will attend the rural camp before concurrent Field Work. The broad aim of Field Work is to provide opportunities for students to apply the knowledge learnt in the classroom environment and to plan, implement and evaluate these experiences while working with individuals, groups and communities. These will be in keeping with the placement agency's philosophy, policy and goals and use of guided supervision. The rural camp will have to be organised before September first week for five working days in a rural area in Tamil Nadu.

OBJECTIVES OF RURAL CAMP

- To develop an understanding of the rural social system with special reference to a specific poverty group
- To apply the government intervention in relation to poverty groups in the region and the related structures of decision-making and intervention.
- To analyse in-group living, appreciate its value in terms of self-development, interpersonal relationships, sense of organisation, management and mutual responsibility.
- To assess and acquire skills in planning, organising, implementing the camp.
- To create awareness programmes based on contemporary issues.

COURSE LEARNING OUTCOMES

On successful completion of Course, students will be able to:

COs	DESCRIPTION	CL
CO1	understand the social system existing in rural areas and to work with different groups.	K1-K2
CO2	analyse the conditions of different groups and implement specific interventions.	K3
CO3	categorize the needs and problems of the people in the community.	K4
CO4	apply the knowledge of practice in organizing programmes	K5
CO5	create, Plan and demonstrate abilities to work in teams.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Needs of the people in rural communities 1.2 Problems and issues related to rural communities	K1-K6	12	1-5
2	2.1 Government programmes and challenges in rural areas. 2.2 Voluntary Organizations, GO's and Corporation Schools in the communities, collaboration and challenges.	K1-K6	12	1-5
3	3.1 Assessment of the problems in the rural communities. 3.2 Socio-economic conditions and problems in Rural communities.	K1-K6	12	1-5
4	4.1 Planning Community Programmes. 4.2 Programmes related groups for activities and awareness Programmes	K1-K6	12	1-5
5	5.1 Community Visits to BDO, PHC, Balwadi and other Government Organisations, Voluntary Organizations, and documentation. 5.2 Implementing various need-based activities, awareness programmes through street theatre and songs.	K1-K6	12	1-5

PATTERN OF ASSESSMENT

Cognitive Level	Pattern	Mark Distribution
K1	To fulfil requirements of Attendance – Rural Camp	5
K2	Submission of Rural Camp Record	5
K3	Consolidated Report of the Rural Camp	5
K4	Individual presentation of work with the Rural Camp Co-ordinators	10
K5	Personal and Professional Skills acquired	10
K6	Viva Voce with Internal Rural Camp Co-ordinators	15

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/RC31												
III	Course Title: Rural Camp												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	3	2	2	3	2	2	3	3
CO 2	2	3	2	1	2	3	3	3	3	3	2	2	2
CO 3	3	2	2	2	2	1	2	3	2	3	2	2	2
CO 4	3	3	2	2	2	1	2	2	1	2	2	3	3
CO 5	2	2	2	2	1	2	2	2	3	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

FIELDS OF SOCIAL WORK

CODE:23SW/MC/FS33

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To develop an understanding regarding the macro level of practice in Social Work
- To help students become sensitive of the vulnerabilities of communities in different fields
- To familiarize students with the role and functions of agencies working in different fields of Social Work
- To provide an overview on the range of fields that use varied type of interventions.
- To develop skills in students to envisage, plan and work out strategies in working with different macro level interventions

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe and infer knowledge and attitude with professional practice at the macro level.	K1
CO2	demonstrate the use of interventions in a wide range of problems at the field level	K2
CO3	analyse the range of strategies suitable for the varied client requirements	K3
CO4	evaluate the role of agencies involved in macro level interventions. Alternative Media forms and their effectiveness	K4
CO5	develop ideas on the application of interventions for addressing diverse and special problems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Social Work Interventions with Family, Children, Adolescents and Youth 1.1 Intervention with Family and Children – Understanding the Family – Global and Indian perspectives, structure and functions, changing features of family, Emerging family patterns, Problems in Families, Problems of Children, Children in Special Circumstances, Services in the Field of Family and Child Welfare, Role of Social Worker. 1.2 Intervention with Adolescents and Youth – Definition, Demographic Profile, Needs, Specific Problems and Services for Youth, School Social Work, Role of Social Worker, Introduction to Draft National Youth Policy 2021 and Schemes – NSS, Rajiv Gandhi National Institute of Youth Development and Rashtriya Yuva Sashaktikaran Karyakram (RYSK) .	K1-K5	12	1 – 5
2	Social Work Interventions with the Older Persons 2.1 Definition of the Aged, Changes – Physiological, Psychological, Economic, Social and Common Problems of the Older Persons, Services for the Older Persons. 2.2 Introduction to National Policy on Older Persons and schemes provided by Ministry of Social Justice and Empowerment.	K1-K5	10	1-5
3	Social Work Interventions with the Rural and Urban Communities 3.1 Definition of Rural and Urban Community and Rural and Urban Community Development, Emerging Trends in Urban and Rural Development 3.2 Current Issues in Urban Areas, Different Services in the Field of Urban and Rural Community Development, Role of Social Worker	K1-K5	10	1-5
4	Social Work Interventions with the Displaced 4.1 Meaning, Causes, Problems of Displacement – Social, Economic, Psychological, Cultural, Rehabilitation, Problems of Rehabilitation – Awareness, Resources, Opportunities 4.2 Introduction to Constitutional Provisions and Legislations–The Right to Fair Compensation and Transparency in Land Acquisition, Resettlement and Rehabilitation Act, 2013, Programmes, Services, Role of Social Worker	K1-K5	10	1-5

UNIT	CONTENT	CL	HRS	CO
5	Social Work Interventions with Industries 5.1 Definition, Concept, Meaning – Labour Welfare and Industrial Relations, Industrial Welfare Measures 5.2 The Need and Importance of Social Work Services in the Field of Labour Welfare and Industrial Relations 5.3 Introduction to the Concept of Corporate Social Responsibility	K1-K5	10	1-5

BOOKS FOR STUDY

Dhawan Nitesh, Social Work Perspectives: Philosophy and Methods, Lucknow, Bharat Book Centre, 2014.

Colton, P., Sanders, M., R., and Williams, M. An Introduction to working with Children – A Guide for Social Workers. New York: Palgrave Macmillan, 2015.

BOOKS FOR REFERENCE

Devi, Laxmi. Child and Family Welfare- Institute for sustainable development., New Delhi: Anmol.1998
 Johri, P., K. Social Work for Community Development. New Delhi: Amol, 2005.

Kaila, H., L. Women, Work And Family. New Delhi: Rawat, 2005

Liebig, S., P., Rajan, I., S. An Aging India- Perspectives, Prospects and Policies. Jaipur: Rawat, 2005.

Ledwith, M. Community Development. Jaipur: Rawat, 2005.

Katare, M., P. Social Work and Rural Development. New Delhi: Arise, 2006.

Kumar, S. Methods for Community Participation – A Complete Guide for Practitioners. New Delhi: Vistaar, 2002.

Mohan, S. Urban Development New Localism. New Delhi: Rawat, 2005.

Nagpaul, H. Social Work in Urban India. Jaipur: Rawat, 2005.

Phillips, I., Ray, Mo, Marshall, M. Social Work With Older People. New York: Palgrave Macmillan, 2006.

Radhakrishna, R., and Ray, Shovan. Handbook of Poverty in India- Perspectives, Policies and Programmes. New Delhi: Oxford University Press, 2006.

Sandhya, N. Indian Society. New Delhi: Vrinda Publications (P) Ltd., 2005.

Sharma, Ram Nath and Sharma, Rachana. Child Psychology. New Delhi: Atlantic, 2006.

Twelvetrees, A. Community Work. New York: Palgrave, 2002.

Verma, K., Manish. Development, Displacement and Resettlement. Jaipur: Rawat, 2004.
 Gore, M., S. Indian Youth - Process of Socialisation. New Delhi: Vishva Yuvak Kendra, 1977.

Hurlock, Elizabeth. Development Psychology- A Life Span Approach. New Delhi: Tata McGraw Hill, 1985.

JOURNALS

The Indian Journal of Social Work

WEB RESOURCES

www.socialworkers.org

<https://www.socialworkguide.org/careers/>

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 Minutes**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/FS33												
III	Course Title: FIELDS OF SOCIAL WORK												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	2	2	2	2	3	3	3	3
CO 2	3	2	3	3	3	2	2	3	3	2	2	3	2
CO 3	2	3	2	2	2	3	3	3	2	3	3	3	3
CO 4	3	3	3	3	3	2	2	2	2	2	2	2	2
CO 5	2	3	2	3	2	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

INDIAN ECONOMY AND DEVELOPMENT ISSUES

CODE: 23SW/AC/IE35

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To know the basic concepts of Economics and its relevance to Social Work.
- To understand the sustainable development goals and its relation to economics.
- To analyze the food policies, agricultural policies and land reforms.
- To examine the role of financial institutions in Indian Economy.
- To develop awareness of the Local-Self-governance in India and its relation to Economics.

COURSE LEARNING OUTCOMES

On successful completion of the course, the students will be able to:

COs	DESCRIPTION	CL
CO1	understand the basic concepts of Economics and its relevance to Social Work.	K1
CO2	know the sustainable development goals and its relation to economics.	K2
CO3	examine the food policies, agricultural policies and land reforms.	K3
CO4	evaluate the role of financial institutions in Indian Economy through discussions	K4
CO5	develop awareness on the Local-Self-governance in India and its relation to Economics	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Economic Concepts relevant for Social Work 1.1 Introduction to Economics and the relationship between Economics and Social Work 1.2 Concept - Rural-Urban Economy, Rural–Urban Gap, Rural-Urban Divide 1.3 Urbanisation and Industrialisation as Economic Processes 1.4 Types of Economy – Capitalists, Socialists and Mixed Economy 1.5 Role of Public Sector Enterprises (PSE) and Micro, Small and Medium Enterprises (MSME) in Indian Economy	K1-K5	13	1-5

UNIT	CONTENT	CL	HRS	CO
2	India as a Developing Economy 2.1 Meaning, Definition and Characteristics – Development, Underdevelopment in economy 2.2 Meaning and difference between Economic Growth and Economic Development 2.3 Concept – Gross Domestic Product, Gross National Product, Gross National Income, Human Development Index, Gender Development Index, Physical Quality of Life Index, Sustainable Human Development 2.4 Social Development as an approach to Development – UN Sustainable Development Goals 2.5 Five Year Plans related to Development in India	K1-K5	13	1-5
3	Developmental Issues in India 3.1 Poverty – Meaning, Definition, Types of Poverty – Absolute and Relative Poverty - Nature and Causes of Poverty, Poverty Alleviation Programmes in India 3.2 Agriculture – Importance of Agriculture in India, Problems of Indian Agriculture, Remedial Measures to raise agricultural productivity in India, New Agricultural Strategies 3.3 Land Reforms – Objectives of Land Reforms, Components of Land Reforms, Need and scope for Land Reforms in a Developing Economy 3.4 Food Policy and Public Distribution System – Nature of Food Economy, Emergence of a Comprehensive Food Policy in Independent India, Public Distribution System – Objectives and the Important feature of Public Distribution System, Concept of Targeted Public Distribution System	K1-K5	11	1-5
4	Development Financial Institutions 4.1 Role and Functions of Industrial Finance Corporations of India, Industrial Development Bank of India (IDBI), National Bank for Agriculture and Rural Development 4.2 Role and Functions of Reserve Bank of India (RBI) 4.3 Impact of Globalization and Privatization of financial institutions on Indian Economy	K1-K5	15	1-5
5	Local Self- Governance in India 5.1 Brief Overview of the evolution of Panchayat Raj in India Pre and Post Independence, 73 rd Amendment of the Indian Constitution. 5.2 Rural Administrative Structure and Functions of Zilla Parishads (District Level), Mandal or Taluka Panchayats, Gram Panchayats and their challenges. 5.3 Urban Administrative Structure and Functions of Municipal Corporations, Municipal Councils and Nagar Panchayats and their challenges.	K1-K5	13	1-5

PATTERN OF ASSESSMENT**Continuous Assessment:****Total Marks: 50****Duration: 90 Minutes**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/AC/IE35												
III	Course Title: INDIAN ECONOMY AND DEVELOPMENT ISSUES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	2	2	1	1	2	2	2
CO 2	3	2	3	3	2	2	3	2	2	2	3	3	2
CO 3	3	2	2	2	2	1	2	2	1	3	2	2	1
CO 4	2	2	2	2	3	2	2	1	2	2	1	2	3
CO 5	2	2	2	2	2	3	2	2	1	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIETAL ANALYSIS FOR SOCIAL WORKERS - WORKSHOP

CODE:23SW/SA/AW32

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students understand the political structure of the society.
- To sensitise students on the social structure of the society.
- To aid students in comprehending the economic structure of the society.
- To promote the study of social problems and its causes.
- To develop in students' a critical understanding of the society.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify and describe the issues in the society
- analyse the strategies to resolve the issues in society as a social Worker

Unit 1

Introduction to Societal Analysis

1.1 Introduction to the socio economic conditions of Indian Society

1.2 The importance of Societal Analysis and its relevance in Social Work

Unit 2

Overview on Problems in Society

2.1 An over view and analysis on political, social and economic problems and the rights of the vulnerable and marginalized communities

Unit 3

Conduct of an awareness programme

3.1 Conduct of a need-based survey or awareness programme or any other innovative activity in a community

METHODS OF ASSESSMENT

- Students will have to attend all the sessions of the training workshop and will have to undertake tasks as part of the learning.
- Students have to submit day – wise reports with information on the activities undertaken, the learning process and the learning outcomes.
- Student should include photographs and short videos as part of the report.
- Students have to take active part in the implementation of the awareness programme or activity.
- Students should be part of team events and should also undertake individual roles as part of the implementation of the activity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

GENERALIST PRACTICE IN SOCIAL WORK

CODE:23SW/MC/GP44

CREDITS:3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand the knowledge and skills of generalist social work practice with all systems.
- To orient the students about human behavior and the social environment
- To gain knowledge to Engage, Assess, Intervene and Evaluate with individuals, families, groups, organizations, and communities.
- To develop a holistic perspective in social work practice.
- To create the ability to work with diverse client systems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on the skills of generalist social work practice	K1
CO2	explain about human behavior and social environment	K2
CO3	analyze and practice ethical and professional behavior	K3
CO4	critically examine the holistic perspective in social work practice.	K4
CO5	gain insight to work with diverse client systems	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Generalist Practice 1.1 Concepts – Meaning of Systems, 1.2 Generalist Practice as method in Social Work; Theoretical foundations- General Systems Theory, Ecological Systems Theory. Human Beings in a Systems Framework, Applying Systems Theory to Social Work Practice. 1.3 The Basic Systems in Generalist Practice and Resource Systems Levels of Social Work Practice- Micro, Mezzo, Macro Systems	K1-K5	11	1 – 5

UNIT	CONTENT	CL	HRS	CO
2	Generalist Practice – Pre-Intervention phase 2.1 Interaction and Engagement – Meaning, establishing a relationship, making contacts, Interview in interaction. 2.2 Assessment – Meaning, stages in Assessment Phase - data collection, identifying and assessing the problem 2.3 Identification of the Potential Strengths and Resources	K1-K5	11	1-5
3	Planning 3.1 Planning – Components of a Plan, Goals and Objectives, Planning with Multiperson Client Systems 3.2 Factors affecting a Plan of Action - Community, Agency, Social Problem, Social Worker and Client 3.3 Agreement between Worker and Client /negotiating contracts	K1-K5	10	1 – 5
4	Intervention Phase 4.1 Direct Practice and Indirect Practice, 4.2 Use of available Resources, Referral services, Use of Programme, coordination of services, networking 4.3 Mediation, Influence, Environmental Change	K1-K5	10	1- 5
5	Post-Intervention Phase 5.1 Evaluation –Meaning and Types of Evaluation, Techniques for Evaluation, Recording, Programme Evaluation 5.2 Termination – Meaning and Types of Termination - Planned and Unplanned Termination, Components of Termination, Disengagement, Recording	K1-K5	10	1 – 5

BOOKS FOR STUDY

Hepworth, D. H. and Larsen, J. A. Direct Social Work Practice - Theory and Skills. London: The Dorsey Press, 1993

Louise C. Johnson and Stephen J. Yanca. Social Work Practice: A Generalist Approach. Allyn & Bacon, 2009.

BOOKS FOR REFERENCE

Ashman, Kirst, Karen, K. Introduction to Social Work and Social Welfare - Thinking Perspectives. USA: Thomson Kearing Brooks, 2003.

Bogo, M. Social Work Practice- Concepts, Processes and Interviewing. Jaipur: Rawat, 2006.

Devi, R., and Prakash, R., Social Work Methods - Practices and Perspectives Vol 1,2,3. Jaipur: Mangal Deep, 2004.

Encyclopedia of Social Work, Vol. 1,2,3. National Association of Social Workers, Washington D.C: NASW, 1996.

Goldstein, H. Social Work Practice - A Unitary Approach. Columbia: SC University of South Caroline Press, 1980.

Johnson, Louise. Social Work Practice - A Generalist Approach. London: Aelyn and Bacon, 1983.

Milner, J. and O'Bryner, P. Assessment in Social Work. New York: Palgrave 2002. Payne, M. Modern Social Work Theory. New York: Palgrave MacMillan, 2005.

Pincus, A. and Minahan. A Social Work Practice Model and Method. K. Illinois: Peacock Publishers, 1973.

Thompson, N. Understanding Social Work- Preparing and Practice. New York: Palgrave Macmillan, 2002.

JOURNALS

Journal of Advanced Generalist Social Work Practice, Springfield College

The Advanced Generalist: Social Work Research Journal, Wichita State University

WEB RESOURCES

<https://uta.pressbooks.pub/introtosocialwork/chapter/generalist-practice/>

<http://www.socialworkdegreeguide.com/what-does-it-mean-to-be-a-social-work-generalist/>

<https://socialworkhaven.com/generalist-intervention-model/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/ GP44												
IV	Course Title: Generalist Practice in Social Work												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

FIELD WORK-1V

CODE: 23SW/MC/FW43

CREDITS:3

OBJECTIVES OF THE FIELDWORK

- To determine the needs and problems of individuals and families
- To apply the method of Social Work of Case Work by identifying three cases and draw up a face sheet
- To diagnose a family profile of two families
- To assess groups in existence and study the functions/ activities of the group (Youth, Women, Children and Senior Citizens).
- To create a community programme according to the needs of the people in the community

COURSE LEARNING OUTCOMES

On successful completion of Field Work, students will be able to:

COs	DESCRIPTION	CL
CO1	explain the needs and problems of individuals and families in the community	K1, K2
CO2	understand the need and importance of writing case study, group activity, family profile	K3
CO3	analyze the various projects of the Government and Non-Governmental organizations implemented for the people in the community	K4
CO4	evaluate the programmes in accordance with the beneficiaries of each of the programmes	K5
CO5	improve skills related to planning, organising and conducting various activities and programmes in the community	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	1.1 Needs of the people in the community 1.2 Problems of the people in the community	K1-K2	12	1-5
2	2.1 Format to do a case study 2.2 Case study of individuals – 3 case studies	K3	12	1-5
3	3.1 Process of doing a family profile study 3.2 Family study of one family using genogram	K4	12	1-5

UNIT	CONTENT	CL	HRS	CO
4	4.1 Identify/Form groups in the community to do Group Activity 4.2 Group Activity with different groups – 2 group activities	K5	12	1-5
5	5.1 Community Programme preparation with budget 5.2 Plan, Organise and Conduct One Community Programme according to the needs of the people in the community	K6	12	1-5

PATTERN OF ASSESSMENT

Cognitive Level	Pattern	Mark Distribution
K1	To fulfil requirements of Attendance for Field Work and Submission of Field Work Record	5 (2+3)
K2	Fulfillment of all the criterion for IV Semester and attending field work conference	5 (2+3)
K3	Consolidated Report that will include reports of Case Studies, Group Activities and Community Programme conducted	5
K4	Individual presentation of work with the internal supervisor	10
K5	Personal and Professional Skills acquired	10
K6	Viva Voce with Internal Field Work Faculty Supervisor	15

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/FW43												
IV	Course Title: FIELD WORK-1V												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

HUMAN RIGHTS, SOCIAL JUSTICE AND ADVOCACY

CODE: 23SW/AC/HR45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To know the concepts related to Human Rights and Social Justice
- To understand the International Human Rights instruments and the process involved.
- To comprehend the Evolution of Human rights from International and National perspectives.
- To identify the role of Social Work in relation to Human Rights, Social Justice and Advocacy.
- To develop a sense of commitment towards ensuring Human Rights among the social work students.

COURSE LEARNING OUTCOMES

On successful completion of Course, students will be able to:

COs	DESCRIPTION	CL
CO1	understand the concepts related to Human Rights and Social Justice.	K1
CO2	know the International Human Rights instruments and the process involved.	K2
CO3	understand the Fundamental rights, duties and the Directive Principles of State Policy.	K3
CO4	apply the role of Social Work in relation to Human Rights, Social Justice and Advocacy in the fieldwork agencies.	K4
CO5	develop a sense of commitment towards ensuring Human Rights with specific reference to Special Groups	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Human Rights 1.1 Definition, Important milestones in the History of Human Rights, Importance of Awareness on Human Rights 1.2 Introduction to Categories of Rights – Civil, Political, Social, Economic and Cultural Rights from a generational perspective, Right to Environment, Right to Sustainable Development 1.3 Social Justice – Concept and Meaning, Dr.B.R. Ambedkar’s Views on Social Justice 1.4 Introduction to Protective Discrimination & Affirmative Action	K1-K5	12	1-5
2	International Human Rights Instruments 2.1 A brief overview on the processes: Declaration, Convention, Ratification, Reservations 2.2 Universal Declaration of Human Rights, 1948 2.3 International Covenant on Civil and Political Rights 2.4 International Covenant on Economic, Social and Cultural Rights	K1-K5	13	1-5
3	A Brief Overview on the Indian Constitution 3.1 The Preamble 3.2 Fundamental Rights and Fundamental Duties 3.3 Directive Principles of State Policy	K1-K5	12	1-5
4	Overview on Justice Issues and Rights of Marginalised Groups 4.1 Justice issues Concerning Children, Guiding Principles and a brief overview of the Convention on the Rights of the Child, 1989 4.2 Justice issues Concerning Women, a brief overview on the Convention on the Elimination of All forms of Discrimination against Women, 1979 4.3 Justice Issues of Dalits, Tribes 4.4 Justice Issues of Worker’s Rights – Unorganized labour 4.5 Justice Issues of Disabled 4.6 Justice Issues Concerning LGBTQI+ and people with different gender orientations.(Sexual minorities)	K1-K5	13	1-5
5	Introduction to Strategies for Protection of Human Rights 5.1 Role of key organisations working in the field of Human Rights 5.2 Fact finding, Advocacy: Types, Lobbying, Negotiation 5.3 Role of National Human Rights Commission, State Human Rights Commission 5.4 Human Rights Education 5.5 Public Interest Litigation 5.6 Right to Information 5.7 First Information Report, Free legal Aid	K1-K5	15	1-5

BOOKS FOR STUDY

Agarwal. International Law and Human Rights. New Delhi: Central Law, 2015. Birch Janice. SHR: Human Rights Training Module. New Delhi: Human Rights Law Network, 2010.

BOOKS FOR REFERENCE

A World Watch Institute Report. State of the World. Progress towards a Sustainable Society. USA: World Watch Institute, 1998.
Bajwa, G. S. Human Rights in India, Implementation & Violations. New Delhi: Oscar, 1995. Bakshi, P. M. The Constitution of India. Jaipur: Rawat, 2000.
Dewan, V. K. Law Relating to Offences Against Women New Delhi: Sage, 1996.
Gupta, D. N. Chandrachud, and, Singh, Human Rights Acts, Statutes and Constitutional Provisions. Rajat: New Delhi, 2003.
Human Rights Watch, Broken People – Caste Violence Against India's "Untouchables". UK: Human Rights Watch, 1999.
Jayshree, P. M. Dalit Human Rights Violation. New Delhi: Rajat, 2000.

JOURNALS

Journal of Human Rights Practice - <http://jhrp.oxfordjournals.org>

WEB RESOURCES

<http://www.ohchr.org>
(United Nations Human rights: Office of the High Commissioner for Human Rights)
<https://www.amnesty.org>
(Amnesty International)

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
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D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/AC/HR45												
IV	Course Title: HUMAN RIGHTS, SOCIAL JUSTICE AND ADVOCACY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	2	2	1	1	2	2	2
CO 2	1	1	3	3	3	2	3	2	2	2	3	3	2
CO 3	3	2	2	2	2	2	1	2	1	3	2	2	1
CO 4	2	2	2	3	1	2	2	1	2	2	3	2	3
CO 5	2	2	3	2	2	3	2	2	1	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.B.A./ B.C.A. / B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23SW/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

- Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.
- Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014
- Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.
- Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.
- Grenville-Cleave, B. *Positive Psychology A practical Guide*. United Kingdom: Icon Books Ltd, 2012.
- Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.
- Weiner, M. The Indian Paradox. New Delhi: Sage , 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

- Two to three Task based components
- Task based classroom activities
- Case studies
- Group Discussions
- Group Presentation
- Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

HEALTH CARE AND SERVICES

CODE:23SW/MC/HC53

CREDITS:3

L T P:3 1 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To understand the concept and dimensions of health- physical, social, environmental and mental health.
- To assess about Nutrition, Classification of foods and Malnutrition.
- To obtain insight into the etiology, symptoms, treatment, and prevention of communicable diseases, non-communicable diseases, deficiency diseases.
- To understand the alternate systems of health care and the role of the government in the health issues.
- To gain knowledge on Health Care Services, health programmes and the role of international organisations.

COURSE LEARNING OUTCOMES

On successful completion of Field Work, students will be able to:

COs	DESCRIPTION	CL
CO1	Describe the different dimensions of health, Physical, social, environmental and mental health.	K1
CO2	Recognize, interpret and incorporate and also conduct awareness programmes and demonstrate on Nutrition and health in the communities they work.	K2
CO3	Identify and describe the different communicable and non- communicable diseases and use the knowledge acquired in the field.	K3
CO4	Analyze the different alternate systems of health care.	K4
CO5	Assess the effectiveness of different Government Health Care Services.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Health – Definition, Concept of Physical, Mental, Social, Spiritual and Positive Health, Indicators of Health, Determinants of Health, Concept of disease and disability, difference between Epidemic, Endemic & Pandemic. 1.2 Concept of Prevention – Definition, Levels of Prevention, Levels of Intervention. 1.3 Hygiene – Definition, Importance of Personal Hygiene. 1.4 Sanitation – Definition, Meaning, Need and Importance.	K1-K5	8	1-5
2	Nutrition and Health 2.1 Nutrition – Definition, Meaning, Classification of Foods, Functions and Sources of Proteins, Fats, Minerals, Carbohydrates and Vitamins, traditional food practices, seasonally available foods. 2.2 Concept of - Malnutrition, PEM, Balanced Diet.	K1-K5	10	1-5
3	Diseases 3.1 Communicable Diseases – Definition, Meaning, Types, Causes, Symptoms, Treatment and Prevention (Malaria, Tuberculosis, HIV/AIDS, COVID-19). 3.2 Non Communicable Diseases - Definition, Meaning, Types, Causes, Symptoms, Treatment and Prevention – (Diabetes, Hypertension, Cardio- Vascular Diseases). 3.3 Mental Health - Definition, History, Characteristics of a Mentally Healthy Person, Types of Mental Illness – Definition, Meaning, Types, Causes, Symptoms, Treatment and Prevention - Major and Minor Mental Illnesses – Schizophrenia, MDP, Anxiety, Phobia, OCD, Hysteria). 3.4 Psycho-Physiological Disorders- Definition, Meaning, Types, Causes, Symptoms, Treatment and Prevention – Respiratory Disorders, Digestive Disorders.	K1-K5	13	1-5
4	Alternate Systems of Health Care 4.1 AYUSH (Ayurveda, Yoga, Unani, Siddha, Homeopathy) – Definition, Etiology, Principles, Treatment Measures	K1-K5	10	1-5
5	Health Care Services 5.1 Health care delivery- SDG-Goal 3 related to health, Voluntary Health Agencies in India – Role of - Indian Red Cross Society, Indian Council for Child Welfare, Tuberculosis Association in India, Central Social Welfare Board, Family Planning Association of India.	K1-K5	11	1-5

UNIT	CONTENT	CL	HRS	CO
	5.2. Health Programmes in India– Overview of National Malaria Eradication Programme, Diarrheal Diseases Control Programme, National Filarial Control Programme, National Tuberculosis Control Programme, STD Control Programme, NHRM. 5.3 Role of International Organisations – WHO, UNICEF, FAO			

BOOKS FOR STUDY

Park, J., E., and Park, K, *Textbook of Preventive and Social Medicine*. Jabalpur: Banarsidas, 2011.

Park, K. *Textbook of Prevention and Social Medicine*. Jabalpur: Banaridas, 2011.

BOOKS FOR REFERENCE

Abraham, Verghese. *Introduction to Psychiatry*. BI 1996.

Bajjee. *Textbook of Preventive and Social Medicine*. New Delhi: Jaypee Brothers Medical Publishers, 1995.

Chauhan, S., S. *Mental Hygiene – A Science of Adjustment*. New Delhi, 2009.

Mangal, S., K. *Introduction to Abnormal Psychology*. New Delhi: Sterling Publishers, 2004.

JOURNALS

Indian Journal on Public Health

Indian Journal on Community Health

WEB RESOURCES

www.health.com

www.aarogya.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
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D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes(COs)
Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/HC53												
V	Course Title: Health Care and Services												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	3	2	3	2	2	2	3	3
CO 2	2	2	2	2	2	3	2	2	3	2	2	2	2
CO 3	2	3	2	2	2	2	3	3	2	3	1	2	2
CO 4	2	2	2	2	2	1	1	2	1	2	2	2	2
CO 5	2	3	2	2	2	3	2	3	3	2	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

BASIC RESEARCH AND STATISTICS FOR SOCIAL WORK

CODE: 23SW/MC/RS54

CREDITS:4

L T P:4 0 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To define the concepts in Social Research and Social Work Research
- To understand the competence to conceptualise a problem, analyse and assess social problems and needs at the micro-level
- To apply the skills in conducting research by developing ability to prepare appropriate tools
- To analyse and interpret data through appropriate tables
- To determine the need for Social Work Research

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the connections between Social Research and Social Work Research	K1
CO2	discuss about the guidelines to conceptualize a problem, analyse, and assess social problems and needs	K2
CO3	demonstrate the ability to prepare appropriate tools	K3
CO4	apply the knowledge on Research and Statistics	K4
CO5	summarize appropriate methodology in Research	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Research 1.1 Social Research – Definition, Stages in the Social Research Process 1.2 Concept of Objectivity in Research, Scientific Approach to Research, Variables, Concepts, Constructs, Hypothesis 1.3 Types of Research (Pure, Applied, Action Research) 1.4 Social Work Research – Definition, Meaning, Stages in the Social Work Research Process. 1.5 Relevance of Research in Social Work 1.6 Social Work Research as a Method of Social Work	K1-K5	10	1 – 5
2	Basic Research Designs and Tools for Data Collection 2.1 Research Design – Descriptive, Experimental and Exploratory, Qualitative, Quantitative, Mixed, Participatory Research 2.2 Identifying and Formulating a Research Problem Relevant to Social Work 2.3 Sources of Data – Primary and Secondary 2.4 Tools for Data Collection – Observation, Interview Schedule, Interview Guide, Mailed Questionnaire, Google Forms	K1-K5	10	1-5
3	Sampling and Scaling Techniques 3.1 Concepts and Meaning of Sampling – Frame, Unit and Universe 3.2 Sampling Techniques – Random Sampling – Simple Random, Stratified, Multistage. Non-Random Sampling–Convenient, Purposive, Snowball and Quota. 3.3 Measurement– Definition, Meaning, Types, Need and Uses – of Nominal, Ordinal, Interval, Ratio.	K1-K5	11	1 – 5
4	Data Processing, Analysis, Interpretation and Reporting 4.1 Data Processing – Editing, Coding, Classification, Tabulation, Transcription 4.2 Outline of a Good Research Report 4.3 Diagrammatic Presentation of Data – One-, Two- and Three-Dimensional Diagrams, Pie Charts	K1-K5	11	1 – 5
5	Basic Statistical analysis of data 5.1 Statistics – Definition, Meaning, Need and Importance of Statistics in Research 5.2 Frequency and Percentage Distribution – Preparation of One-, Two- and Three-Way Tables 5.3 Measures of Central Tendency – Mean, Median and Mode – Definition, Meaning, Need and Importance, Calculation – Continuous and Discrete Series (Direct Method Only)	K1-K5	10	1-5

BOOKS FOR STUDY

Bajpai. *Methods of Social Survey and Research*. Kanpur: Kila Ghar, Fifth Edition 2013.
Gupta. *Statistical Methods*. New Delhi: Sultan Chand and Sons, 43rd Edition. 2011.
Kothari C. R. *Research Methodology: Methods and Techniques*. Second Revised Edition.
New Age International (P) Limited, Publishers, 2004.

BOOKS FOR REFERENCE

Antony, Joseph. *Methodology for Research*. Bangalore: Bangalore Theological 1986.
Birtha, Mikkelsen. *Methods for Development Work and Research*. New Delhi: Sage, 1995.
Hubert, M., Blalock, JR. *An Introduction to Social Research*. New Jersey: Prentice Hall.
Jack, D., Hougla. *Investigate Social Research Individual and Field Team Research*. London: Sage Publications, 1976.
Jaspal, Singh. *Introduction to Methods of Social Research*. New Delhi: Sterling Publishers Pvt, Ltd, 1991.
Kothari. *Research Methodology; Methods and Techniques*. Chennai: Wiley Easter Ltd, 1978.
Kerlinger. *Foundations of Behavioural Research* New Delhi: Surjeet Publications, 1964.
Ramachandran, P. *Survey Research For Social Work. A Primer: Institute of Community Organization Research*. Mumbai 1990.
Kumar Ranjit, *Research Methodology: a step-by-step guide for beginners*. Third Edition. Sage Publications, New Delhi. 2011
Reddy. *Research Methodology in Social Sciences*. New Delhi: Daya Publishing House, 1987.

JOURNALS

The Indian Journal of Social Work Research – TISS
Journal of Social Work

WEB RESOURCES

www.socialworksearch.com
www.socialworksearch.com

PATTERN OF ASSESSMENT

Continuous Assessment: **Total Marks: 50** **Duration: 90 Minutes**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/RS54												
V	Course Title: BASIC RESEARCH AND STATISTICS FOR SOCIAL WORK												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	2	3	1	1	2	1	3	2	2
CO 2	2	3	1	3	2	3	2	2	3	2	2	2	2
CO 3	2	3	1	1	3	3	2	1	2	1	2	3	2
CO 4	3	3	1	1	1	1	1	1	2	1	2	2	2
CO 5	3	2	1	1	1	3	2	1	2	1	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

SOCIAL WELFARE ADMINISTRATION

CODE:23SW/MC/AD54

CREDITS:4

L T P:4 0 0

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To help develop the ability to apply the basic principles of Social Work to administration of social welfare and development agencies
- To promote understanding of the role of leadership in organisations.
- To encourage students in comprehending the importance and functions of Voluntary organisations.
- To enable in understanding of the procedures related to establishment and management of social welfare organisation/agencies governmental and non-governmental organisations.
- To assist students develop an understanding of HRM and the administration process in the agency in the total frame of Social Work practice.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	describe and infer knowledge and attitude with regard to the basic principles of Social Work Administration in Social Welfare Organisation	K1
CO2	demonstrate the understanding of procedures related to the establishment of an NGO.	K2
CO3	analyse the range of strategies suitable for the supporting Individuals, groups and communities using the values of social welfare administration	K3
CO4	evaluate the need for role of Human Resource Management in an organisation	K4
CO5	develop ideas on the application of elements of administration during their concurrent Field Work	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Evolution of Social Welfare Administration 1.1 Concept - Voluntary Social Work, Social Welfare, Social Welfare Administration 1.2 Evolution of Social Welfare Administration in India. 1.3 Brief overview of Social Welfare Administration – Structure and functions of Central Social Welfare Board and State Social Welfare Board, Role and functions of the Ministry of Social Justice and Empowerment, Government of India and Social Welfare and Women Empowerment Department, Government of Tamilnadu. 1.4 Social Work Administration as a method in Social Work – Definition, Scope and Principles	K1-K5	12	1-4
2	Elements of Administration – I 2.1 Functions of the Board Members of a Social Welfare Organisation 2.2 Types of Committees 2.3 The role of Planning and Policy Making 2.4 Methods of Fund raising 2.5 Budgeting – Purpose and Principles 2.6 Accounting – Principles, fundamental books of accounts to be maintained in an organisation	K1-K5	8	2-5
3	Elements of Administration – II 3.1 Co-ordination – Principles 3.2 Importance of Public Relations 3.3 Importance of Communication 3.4 Staffing – Process 3.5 Supervision – Purpose and Principles 3.6 Evaluation – Principles, Functions, Types and areas of Evaluation	K1-K5	8	2-5
4	Introduction to Non-Government Organisation 4.1 Definition, Characteristics, Types - Non-Government Organisations 4.2 Role of NGOs, Problems and Challenges faced by NGOs 4.3 Registration Procedures related to NGOs - Societies Registration Act, 1860 and Tamil Nadu Societies Registration Act, 1975 4.4 Foreign Contribution Regulation Act, 2011, Tax Exemptions Available Under 80G	K1-K5	12	2-5

UNIT	CONTENT	CL	HRS	CO
5	Human Resources Management 5.1 Meaning, Definition, nature and scope of Human Resource Management 5.2 Principles, Philosophy, Functions and Objectives of Human Resource Management 5.3 Relationship between Social Work and Human Resource Management	K1-K5	12	2-5

BOOKS FOR STUDY

Bhattacharya, Sanjay. Social Work Administration and Development. Jaipur: Rawat, 2006.
 Skidmore, Rex, A. Social Work Administration Dynamic Management and Human Relationships. New Jersey: Prentice Hall, 1990.

BOOKS FOR REFERENCE

Chowdhry, Paul. D. Social Welfare Administration. New Delhi: Atma Ram, 1970. Dharmarajan, Shivan. NGO Development Initiative and Public Policy. New Delhi: Kanishka, 1998.
 Gupta G.B. Human Resource Management. New Delhi: Shri Sultan Chand Trust, 2003
 Kirs. Ashman. Karen. K. Introduction to Social Work and Social Welfare, Critical Thinking Perspectives, U.S.A: Thomson, 2003.
 Parmar, P. M. Social Work and Social Welfare in India. New Delhi: Sublime, 2002.
 Pawar, S. N. Ambedkar, J. B. and Shrikant, D. NGOs and Development: The Indian Scenario. New Delhi: Rawat, 2004.
 Wormer, Van, Katherin. Introduction to Social Welfare and Social Work, London: Thomson, 2006.

JOURNALS

Human Service Organisations, Management, Leadership and Governance-
<http://www.tandfonline.com/action/journalInformation?journalCode=wasw20#.VOWJEdHlq1>

WEB RESOURCES

<http://socialjustice.nic.in/> <http://www.researchgate.net/journal>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/AD54												
V	Course Title: SOCIAL WELFARE ADMINISTRATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	2	2	1	1	2	2	2
CO 2	1	2	3	3	3	2	3	2	2	2	3	3	2
CO 3	3	2	2	2	2	3	2	2	1	3	2	2	1
CO 4	2	2	2	2	1	2	2	1	2	2	3	2	3
CO 5	2	2	3	2	2	3	2	2	1	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

FIELD WORK- V

CODE: 23SW/MC/FW53

CREDITS:3

OBJECTIVES OF THE FIELDWORK

- To understand the skills in resource mobilization and assist in agency administration
- To orient students in identifying 3 cases and do case analysis
- To gain knowledge to conduct 2 groups activities
- To develop skills to organise and conduct a programme based on the needs assessed
- To create the skills to execute simple referrals, report writing

COURSE LEARNING OUTCOMES

On successful completion of Field Work, students will be able to:

COs	DESCRIPTION	CL
CO1	understand the skills in resource mobilization	K1- K2
CO2	identify 3 cases then draw up a face sheet and do case analysis	K3
CO3	gain knowledge to identify groups in existence and study the activities of the group also conduct group work with any one existing group	K4
CO4	create the skills to execute simple referrals, report writing and do agency administration	K5
CO5	develop skills to organise and conduct a programme based on the needs assessed	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Students will be trained in Resource Mobilisation, Agency Administration and they will apply the inputs in the respective fieldwork.	K1-K6	12	1-5
2	Students have to identify three individual cases, do case analysis by practicing core competencies matching the field work agency in which the trainee is placed.	K1-K6	12	1-5
3	Student Trainees have to do two group activities	K1-K6	12	1-5
4	Student Trainees have to execute simple referrals, do Report writing and Documentation work.	K1-K6	12	1-5
5	Student Trainees have to develop skills to organise and conduct a programme based on the needs assessed in the fieldwork setting.	K1-K6	12	1-5

PATTERN OF ASSESSMENT

END SEMESTER EXAMINATION - VIVA VOCE

Viva Voce Examination by Internal Faculty

Mark Distribution: **Total Marks: 50**

Cognitive Level		Marks Distribution
K1	To fulfil requirements of Attendance Field Work and Submission of Field Work Record	5 (2+3)
K2	Fulfilment of all the criterion for V semester and attending field work conference	5 (2+3)
K3	Consolidated Report that will include reports of Case Studies, Group Activities and Community Programme conducted	10
K4	Individual presentation of work with the internal supervisor	5
K5	Personal and Professional Skills acquired	10
K6	Viva Voce with internal Field Work Faculty Supervisor	15

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/FW53												
V	Course Title: FIELD WORK-V												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIALWORK

SYLLABUS

(Effective from the academic year 2023–2024)

BASIC COUNSELLING IN SOCIALWORK PRACTICE

CODE:23SW/MC/CN53

CREDITS:3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To understand the knowledge, skills, ethical principles and Professional standards of Counselling in social work practice.
- To orient the students about different types of Counselling
- To gain knowledge about various approaches in Counselling.
- To develop the ability to critically analyse and think broadly with reference to the context.
- To create the ability to practice counselling in different settings

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge, skills, ethical principles and Professional standards of Basic Counselling in Social Work practice	K1
CO2	explain about the different types of Counselling	K2
CO3	analyze and practice various approaches in Counselling	K3
CO4	critically examine and analyse with reference to the context.	K4
CO5	gain insight to practice counselling in different settings	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Concept and Foundation of Counselling 1.1 Evolution of Counselling, Definition and Characteristics of Counselling. 1.2 Counselling Ethics, Profile of the Counsellor and the Client 1.3 The Counselling relationship	K1-K5	11	1 – 5
2	Counselling – Types, Goals and Recording 2.1 Individual Counselling, Group Counselling, Community Counselling, Directive Counselling, Non-Directive Counselling Integrative and Eclectic Approach to Counselling 2.2 Achievement of Positive Mental Health, Resolution of Problems, Improving Personal Effectiveness, Change, Decision making, Modification of Behaviour. 2.3 Recording in Counselling: Importance of Recording, Skills required for Recording in Counselling, Types of Recording in Counselling.	K1-K5	11	1-5
3	Egan Model of Counselling – the Skilled Helper Approach 3.1 Stage – 1 Reviewing the Current Scenario 3.2 Stage – 2 Developing the Preferred Scenario 3.3 Stage-3 Getting There-the way forward and Practical Sessions	K1-K5	10	1 – 5
4	Different Approaches and Types of Counselling 4.1 Client centered Approach, Cognitive Behavioral Therapeutic Approach 4.2. Gestalt Counselling, Transactional Analysis, Solution focused Counselling, Crisis Intervention 4.3An over view of Alternate Approaches: Meditation, Yoga, Psychodrama, Expressive Arts Therapy, Storytelling, Medical Clowning, Laughter Therapy, Dance Movement Therapy, Neuro- linguistic Programming.	K1-K5	10	1 – 5
5	Counselling in Different Settings 5.1 Family Counselling/Marital Counselling 5.2 School Counselling, Career Counselling, Industrial Counselling, De-addiction Counselling, Grief Counselling, Disaster Counselling. 5.3 Counselling Clients with Suicidal Ideation, Counselling, Sexual Minorities, Gerontological Counselling	K1-K5	10	1-5

BOOKS FOR STUDY

Currie J, 1989, Barefoot Counselling: A Primer in Building Helping Relationship, Bangalore, Asian Trading Corporation.
Egan, Gerard, 2006, The Skilled Helper: A Problem Management and Opportunity Approach to Helping, Boston, Wadsworth Publishers.
Rao, Narayana, 2002, Counselling and Guidance, New Delhi, Tata McGraw Hill. Aggarwal & Malhotra, 2021, Guidance and Counselling, India, ND Publishers.

BOOKS FOR REFERENCE

Corey Gerald, 2004, Theory and Practice of Group Counselling, Thomson Brooks / Cole
Gladding Samuel & Batra Promila, 2018, Counselling: A Comprehensive Profession. India, Pearson Publications.
Hough & Margaret, 2006, Counselling Skills and Theory, UK, Hodder Arnold Publishers.
Ivey, A. & Ivey, M. 2003, Intentional interviewing and counselling (8th ed.). Singapore: Brooks/Cole
Jacobs, Robert L Masson, Riley L Harvill., (Eds), 2009, Theory and Practice of Group Counselling. Cengage Learning.
Kottler, J. & Shepard, D. 2008, Counselling Theories and Practices, New Delhi, Brooks/Cole.
Lapworth, Phil, 2001, Integration in Counselling and Psychotherapy: Developing a Personal Approach, New Delhi, Sage Publications.
McLeod & John, 2003, Introduction to Counselling, UK, Open University Press.
Miller Lisa, 2006, Counselling Skills for Social Work, New Delhi, Sage Publications.
Prashantham, B.J. 2005. Indian Case Studies in Therapeutic Counselling, Vellore, India, Christian Counselling Centre.
Sangganjanavanich Jaii Varunee, Reynolds A Cynthia, 2015, Introduction to Professional Counselling, New Delhi, Sage Publications
Shashi Prabha Sharma, Career Guidance and Counselling- Principles and Techniques, 2005, New-Delhi, Kanishka Publishers.

WEB RESOURCES

<https://www.lib.sfu.ca/help/research-assistance/subject/education/counselling-skillsand-theories>
<https://counseling.education.wm.edu/blog/counseling-theories-and-approaches>
<http://www.counselling-directory.org.uk/counselling.html>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/CN53												
V	Course Title: Basic Counselling in Social Work Practice												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2019–2020)

STUDY TOUR

CODE:23SW/MC/ST50

OBJECTIVES OF THE COURSE

- To enable students to acquire knowledge on INGO's/NGO's/GO's, outside Chennai city and interact with experts in the field.
- To build skills with regard to time management
- To promote team building skills
- To enable students, acquire knowledge on tribes, and their indigenous practices.
- To acquire ability to critically analyse situations.
-

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	acquire knowledge on INGO's/NGO's/GO's, outside Chennai city and interact with experts in the field.	K1- K2
CO2	to learn skills with regard to time management	K3
CO3	consider and practice team building skills	K4
CO4	critically examine and analyse with concepts related to tribes.	K5
CO5	gain insight into interventions for tribal communities practices.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

Study tours are structured experiences which provide an opportunity to the students to visit either INGO's/NGO's /GO's outside Chennai city or visit tribal communities and interact with them, learn their life style, practices and the indigenous medicines used by them. Study tours are arranged for three days. Students will learn about social realities, through inputs by experts in the field and group experiences. Study tour is part of the course completion.

PATTERN OF ASSESSMENT

End-Semester Examination

Cognitive Level	Pattern
K1	To fulfil requirements of Attendance for Study Tour
K2	Submission of day-wise report
K3	Participation during the study tour (question and answer session, cultural activities)
K4	Consolidated Report that will include reports with photographs
K5	Sharing of experiences
K6	Personal and Professional Skills acquired

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/ST50												
V	Course Title: Study Tour												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Interdisciplinary Core Course Offered by Departments of
Social Work and Commerce to B.S.W. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO SOCIAL ENTERPRISE MANAGEMENT

CODE:23ID/IC/SE55

CREDITS:5

L T P:5 1 0

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To provide students with an overview on Social Enterprise as a major sector
- To orient students with case studies on Successful Social Enterprises.
- To sensitize students on the need assessments frameworks.
- To help students understand the need for administration in Social Enterprises.
- To introduce students to the concept on evaluation of the impact created by Social Enterprises.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	identify and describe the types of organisations involved in the Social Enterprise Sector.	K1
CO2	demonstrate the understanding of the Attitude and knowledge required for the creation, management and development of social enterprises	K2
CO3	analyse the range of strategies suitable for fulfilling needs of the communities/clients to be served/ being targeted.	K3
CO4	evaluate the impact of organisations by using basic concepts in social audit.	K4
CO5	develop ideas on the application of skills required in the creation of Social enterprises.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Measuring Social Value 1.1 Concept of social value; Need for measuring social value; 1.2 Methods of measuring social value; Social return on investment; 1.3 Measuring vulnerability and efficiency of social enterprise; 1.4 Organizational effectiveness of social enterprise.	K1-K5	14	1-5
2	Entrepreneurship and Social Entrepreneurship 2.1 Definition, characteristic and types of Entrepreneurships 2.2 Characteristics and Role of a Social Entrepreneur, Difference between entrepreneurship and social entrepreneurship 2.3 Supporting Agencies Ashoka, Skoll Foundation, Miller Center for Social Entrepreneurship, NABARD 2.4 Case studies: Bunker Roy–BARE FOOT COLLEGE, Joseph Nkandu– NUCAFE, Arunachalam Muruganantham – JAYAASHREE INDUSTRIES, G Venkataswamy – ARVIND EYE HOSPITAL, The Self Employment Women’s Association (SEWA) – Ela Bhatt.	K1-K5	16	1-5
3	Creation of Social Enterprises 3.1 Vision, Mission, Objectives, Board 3.2 Need Assessment-Baseline Survey, Participatory Project Planning Techniques, PRA, RRA, Logical Frame Work Analysis 3.3 Development of a Product or Service	K1-K5	16	1-5
4	Management of NGOs 4.1 Concept of Volunteerism, Charity, Welfare and Development, Concept of Social Audit 4.2 National Policy Related to NGO 4.3 Legal Aspects, Documentation in NGOs 4.4 Fund Raising and Accounting Practices	K1-K5	16	1-5
5	Ethical aspects and CSR in Social Entrepreneurship 5.1 Ethical entrepreneurship: Meaning. Empirical ethics, eternal ethics. Entrepreneur and customer, 5.2 Challenges in Social Entrepreneurship 5.3 Corporate Social Responsibility- Introduction, Components and Benefits 5.4 Tracking and reporting of CSR projects - How companies spend their CSR funds	K1-K5	16	1-5

BOOKS FOR STUDY

Paramasivan C, Social Entrepreneurship, New Delhi, UBS Publishers Distributors Pvt Ltd. 2016.
Nicholls, Alex. Social Entrepreneurship, New Models of Sustainable Social Change, Oxford: Oxford University Press, 2011.

BOOKS OF REFERENCE

Ridley-Duff, R. J. and Bull, M. Understanding Social Enterprise: Theory and Practice, London: Sage, 2011.
Bornstein, David. How to Change the World, New York: Penguin Books. 2005.
Bansal, Rashmi, I have a dream, Noida: Westland and Tranquebar Press, 2011.
Yunus, M, Banker to the Poor, USA: Penguin Books, 1999
Padaki & Manjulika, Management Development in Non-Profit Organisation, New Delhi: Sage. 2005
Chambers, R. The Origins and Practice of Participatory Rural Appraisal, World Bank. UK: Elsevier Science Ltd, 1994
Crutchfield, R. Leslie and McLeod Heather, Grant, Forces for Good: The Six Practices of High-Impact Nonprofits, USA: HB Printing, 2007.
Kramer, R, Mark. Measuring Innovation: Evaluation in the Field of Social Entrepreneurship, USA: Foundation Strategy Group, 2005.

JOURNALS

Journal of Social Entrepreneurship (<http://www.tandfonline.com>)

WEB RESOURCES

<https://www.ashoka.org>
<http://www.skollfoundation.org>
Video on Arvind Hospitals - <https://www.youtube.com/watch?v=4Mg3-eOQYYQ> Video on
“Building Social Business Ventures” by Muhammad Yunus
<https://www.youtube.com/watch?v=kW-4gJmXy5M>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/SE55												
V	Course Title: INTRODUCTION TO SOCIAL ENTERPRISE MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

GENDER AND DEVELOPMENT – ISSUES AND CONCERNS

CODE: 23SW/MC/GD63

CREDITS: 3

L T P:3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To enhance the understanding of concepts and theories of feminism, deliberate and apply discussions on various gender issues 2.
- To understand and evaluate the issues related to gender.
- To appreciate the effectiveness of legal frameworks applicable to gender
- To comprehend the importance of the Gender Division of Labour.
- To construct ways to eliminate gender discrimination and promote women empowerment.

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain concepts related to Gender.	K1
CO2	critique the intricate dynamism of feminism.	K2
CO3	compile a comprehensive view on the status of women in Pre-Post Independent India	K3
CO4	creates opinion on various issues related to female children and women	K4
CO5	analyze and compare the various feminist approaches/theories.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning and definition of concepts: Gender, Sex, LGBTQIA+ 1.2 Women in the Development Process: Need and Importance, Developmental Rights of Women, WID, WAD, GAD, GEM 1.3 Significance of Women's Development; Positive and Negative Indices of Women's Development 1.4 Overview of Gender Analysis Framework	K1-K5	11	1 – 5

UNIT	CONTENT	CL	HRS	CO
2	Basic Concepts in Understanding Women's Development 2.1 Gender Stereotypes, Gender Relations, Gender Division of Labour 2.2 Gender Roles and Responsibilities, Gender Discrimination, Equity and Equality 2.3 Gender Mainstreaming, Concept of Patriarchy, and Feminism Gender Analysis: Gender Budgeting – Gender Equity & Equality - Gender Mainstreaming - Gender Gaps Gender Digital divide	K1-K5	10	1-5
3	Gender and Work 3.1 Concept of Work, Glass Ceiling, Problems of Women at Work 3.2 Women's Triple Role, Trends in Women's Work Participation, Invisibility of Women's Work 3.3 Women and Self- Employment, Self- Help Groups Micro-Enterprises and Women's Development 3.4 Feminization of Employment and Labour Force	K1-K5	10	1 – 5
4	Legislations Related to Gender 4.1 Laws relating to Marriage, Divorce and Maintenance 4.2 The Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act, 2013 (POSH Act) 4.3 Pre Natal Diagnostics Techniques Act (Regulation and Prevention of Misuse) 1994 4.4 Indecent Representation of Women (Prohibition) Act, 1986 4.5 Immoral Traffic (Prevention) Act, 1956 4.6 Dowry Prohibition Act, 1961 4.7 Protection of Women from Domestic Violence Act, 2005 4.8 CEDAW – Convention on Elimination of All Forms of Discrimination Against Women and Girls 4.9 The Transgender Persons (Protection of Rights), Bill 2019	K1-K5	10	1 – 5
5	Empowerment Strategies for Women 5.1 Empowerment: Definition and Meaning, Types and Levels of Women's Empowerment 5.2 Needs of Women – Practical and Strategic Needs of Women (PGN/SGN) 5.3 National Policy for Empowerment of Women 2001, Programmes and Schemes for women in India – Central and State 5.4 Social Work and Women's Empowerment	K1-K5	11	1 – 5

BOOKS FOR STUDY

Bhasin, Kamala and Agarwal. *Women and the Media- Analysis, Alternatives and Actions*. New Delhi: Kali and Women, 1984.

Bhatia Anju. *Women's Development and NGOs*. Jaipur: Rawat, 2000.

Blumberg R.L and Dwaraki L. *India's Educated Women Options and Constraints*. New Delhi: Hindustan, 1980.

Devandar, Kiran. *Status and Positions of Women in India*. New Delhi: Shakti Books, 1985.

BOOKS FOR REFERENCE

Fiske T. Susan. *Handbook of Social Psychology*, Volume One, 5th Edition. Kanhere U.S. *Women and Socialisation*. New Delhi: Mittal, 1980.

Kaushik, Susheela. *Women's Oppression – Patterns and Perspectives*. New Delhi: Shakti Books, 1985.

Kidwai M.H. *Women under different Social and Religious Laws*. New Delhi: Seema, 1979.

Marilee Karl. *Women and Empowerment - Participation and Decision Making*. London: Zed, 1995.

Marilyn Carr, Martha Chen, Renana Thabvala. *Speaking Out: Women's Economic Empowerment in South Asia*. London: IT Publications on behalf of Aga Khan Foundation Canada and UNIFEM, 1996.

Neera Desai and Maitreyi Krishnaraj. *Women and Society in India*. New Delhi: Ajanta, 1987.

Vyas Ashutosh. *Human Rights Issues and Social Transformation*. Aadi Publications, Jaipur, India, 2018.

JOURNALS

Indian Journal of Gender Studies, Feb 2015

International Journal of Gender Studies in Developing Societies

WEB RESOURCES

<http://www.un.org/womenwatch/daw/cedaw>

<http://wcd.nic.in>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/MC/GD63												
VI	Course Title: GENDER AND DEVELOPMENT – ISSUES AND CONCERNS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	1	1	2	1	2	2	1	3	2	2
CO 2	3	2	2	1	1	2	1	3	3	2	2	2	2
CO 3	2	3	1	1	2	3	2	3	2	1	2	3	2
CO 4	3	3	1	1	2	1	1	2	2	1	2	2	2
CO 5	2	3	1	1	2	3	2	3	2	1	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

FIELD WORK- VI

CODE: 23SW/MC/FW64

CREDITS:4

OBJECTIVES OF THE FIELDWORK

- To understand the basic skills of planning and administration
- To orient students in fund raising / resource mobilisation
- To gain knowledge in Report writing and Documentation.
- To develop skills of working with different client systems.
- To create the skills of using the integrated approach in Social Work practice at micro, mezzo, and macro levels.

COURSE LEARNING OUTCOMES

On successful completion of Field Work, students will be able to:

COs	DESCRIPTION	CL
CO1	understand the basic skills of planning and administration	K1- K2
CO2	raise funds / Mobilize resources	K3
CO3	gain knowledge in Report writing and Documentation	K4
CO4	work with different client systems	K5
CO5	practice Integrated Approach of Social Work – at micro, mezzo, and macro levels.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 Create		

UNIT	CONTENT	CL	HRS	CO
1	Students will be trained in Planning and Agency Administration; they will apply the inputs in the respective fieldwork.	K1-K6	12	1-5
2	Students have to Raise funds / Mobilize resources	K1-K6	12	1-5
3	Student Trainees have to do Report writing and Documentation	K1-K6	12	1-5
4	Student Trainees have to work with different client systems in the fieldwork setting.	K1-K6	12	1-5
5	Student Trainees have to practice Integrated Approach of Social Work – at micro, mezzo, and macro levels	K1-K6	12	1-5

PATTERN OF ASSESSMENT

END SEMESTER EXAMINATION - VIVA VOCE

Viva Voce Examination by External Faculty

Mark Distribution -Total Marks: 50

Cognitive Level	Pattern	Mark Distribution
K1	To fulfil requirements of Attendance for Field Work and Submission of Field Work Record	5 (2+3)
K2	Fulfilment of all the criterion for VI semester and attending field work conference	5 (2+3)
K3	Consolidated Report and individual presentation that will include reports of Case Studies, Group Activities and Community Programme conducted	10
K4	Personal and Professional Skills acquired	10
K5	Viva Voce with Internal Field Work Faculty Supervisor	10
K6	Viva Voce with External Examiner	10

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/FW64												
VI	Course Title: Field Work – VI												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

MINI RESEARCH PROJECT ON SOCIAL ISSUES

CODE:23SW/MC/PR64

CREDITS:4

LTP:3 0 2

TOTAL TEACHING HOURS:52

OBJECTIVES OF THE COURSE

- To develop an understanding about research projects and the process involved.
- To understand the use of Social Work research as a method in Social Work.
- To enable students to formulate a problem and research questions on current social issues.
- To facilitate students to frame Interview schedule questionnaires.
- To familiarize students with using an interview schedule, questionnaire and collect data, generate tables and collate the findings of the study.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	identify and describe attitudes and knowledge used in research projects.	K1-K2
CO2	demonstrate the understanding of the skills such as planning, critical thinking and problem solving in undertaking research projects.	K3
CO3	analyse the range of activities to be undertaking for conducting research studies in fieldwork setting.	K4
CO4	evaluate the use of theoretical frameworks in projects.	K5
CO5	develop ideas on the application of research framework in addressing social issues.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Students will be trained in identifying and selecting topics for research. Students would be divided into groups and would be encouraged to do presentations. One topic will be finalized with inputs from all the faculty.	K1-K6	12	1-5
2	Students will have to collect secondary data. Research methodology will be finalized after consultations with all the faculty members.	K1-K6	12	1-5
3	Students have to work on tool for data collection under the guidance and supervision of faculty	K1-K6	12	1-5
4	Student have to collect data and undertake data analysis	K1-K6	12	1-5
5	Students have to prepare research report as per the format given.	K1-K6	12	1-5

Every student in her VI Semester is required to complete a project under the supervision and guidance of a faculty member who will guide the class as a whole on topics related to social issues and social work practice. The report will be evaluated internally by 2 examiners.

- Faculty of the Social Work Department who has guided the student.
- A second faculty of the BSW Department.

The Faculty guiding the students will evaluate the project report for 60 marks and the Internal/External examiner shall evaluate the project report for 40 marks. A candidate failing in the research project will be required to repeat it under guidance during the following academic year and secure at least a minimum of 50 marks.

GUIDELINES FOR THE PROJECT REPORT

Page Limit: The Project Report can have minimum 70 to 100 pages typed in Times New Roman font style, size 12, with 1 1/2-line spacing in A4 Size Paper.

Cover Page- should include Logo of the College and Title of the Project Report.

Project submitted to Stella Maris College (Autonomous) in partial fulfilment of the requirement for the Degree of Bachelors of Social Work by Name of the candidate, Department No., Department of Social Work (UG), Month, Year

PATTERN OF ASSESSMENT

Total Marks:50

Cognitive Level	Rubrics for Evaluation	Marks
K1, K2	Introduction	10
K3	Review of Literature	10
K4	Interpretation of Data	10
K5	Diagrammatic Presentation of Data	10
K6	Research findings, Suggestions / Recommendation	10 (5+5)

FORMAT FOR THE PROJECT REPORT

1. Cover Page
2. Certificate Page
3. Acknowledgement
4. Contents Page
5. List of Tables
6. List of Diagrams
7. CHAPTER – I - Introduction, Review of Literature and Research Methodology
8. CHAPTER – II - Analysis and Interpretation
9. CHAPTER – III Summary of Major Findings, Recommendations and Suggestions and Conclusion
10. APPENDICES – References, Copy of tool used for Data Collection

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/PR64												
VI	Course Title: MINI RESEARCH PROJECT ON SOCIAL ISSUES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI-600086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

BLOCK PLACEMENT

CODE: 23SW/MC/BP62

CREDITS:2

OBJECTIVES OF THE COURSE

- To understand organization's goals and administrative functioning
- To sensitize students to existing social issues in the placement
- To execute day-to-day activities of the organization
- To analyze the projects of the organization
- To develop skills in documentation, communication, observation, planning and organizing programme

COURSE LEARNING OUTCOMES

On successful completion of Course, students will be able to:

COs	DESCRIPTION	CL
CO1	Know the organization's goals and administrative functioning	K1, K2
CO2	Sensitize students to existing social issues in the placement	K3
CO3	Execute day-to-day activities of the organization	K4
CO4	Analyze the projects of the organization	K5
CO5	Develop skills in documentation, communication, observation, planning and organizing programme	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 Create		

DURATION: Students will be undertaking fieldwork for a period of 25 Days.

UNIT	CONTENT	CL	CO
1	1.1 Organization Orientation 1.2 Organization profile	K1, K6	1
2	2.1 Community/Target group visit 2.2 Community/Target group profile	K1– K6	2
3	3.1 Conduct of 3 Case studies 3.2 Documentation	K1– K6	3
4	4.1 Conduct of 2 Group activities 4.2 Administration work	K1– K6	4
5	5.1 Planning and organizing 5.2 Community Organisation Programme - 1	K1– K6	5

PATTERN OF ASSESSMENT

Cognitive Level	Pattern	Mark Distribution
K1	To fulfil requirements of Attendance for Field Work and Submission of Field Work Record	5 (2+3)
K2	Fulfilment of all the criterion for VI Semester and attending field work conference	5 (2+3)
K3	Consolidated Report and individual presentation that will include reports of Case Studies, Group Activities and Community Programme conducted	10
K4	Personal and Professional Skills acquired	10
K5	Viva Voce with Internal Field Work Faculty Supervisor	10
K6	Viva Voce with External Examiner	10

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23SW/MC/BP62												
VI	Course Title: Block Placement												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development for Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI-600086

B.S.W. DEGREE BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from academic year 2023-2024)

ECOLOGY, DEVELOPMENT AND SOCIAL WORK INTERVENTION

CODE:23SW/ME/EI45

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To gain clear understanding on the changing environment.
- To aid students to examine the degradation of ecology, need for protecting land resources, agriculture and water resources.
- To analyze the issues related to environment, and the need to carry out social work interventions.
- To assimilate waste disposal and its importance.
- To enable students to develop knowledge on Agenda for green future.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	acquire relevant knowledge and recognise the changes in environment and the need for protecting the ecology, land resources, agriculture and water resources.	K1
CO2	understand the importance of sustainable development and waste disposal.	K2
CO3	discuss the ethical implications involved in protecting the environment.	K3
CO4	categorize and plan for green future.	K4
CO5	formulate Social work Interventions for issues related to environment.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Ecology and Conservation of Forest 1.1 Concept of Ecology, Ecosystem - types of Ecological pyramids, ecology degradation, ecological development, conservation of indigenous culture and traditions. 1.2 Symbiotic relationship between tribals and forest, forest and development, focus on the inclusive growth of tribes, community participation in forest management, case study of Chipko Movement, sacred groves forests, India's Bishnoi community and their conservation practices. 1.3 Man and biosphere programmes; concept of conservation reserves and Community reserves, importance of wildlife corridor in minimizing the conflicts and conservation. Forest resources: economic and ecological importance of forests, forest management strategies, sustainable forestry.	K1-K5	14	1-5
2	Soil degradation, Social Work Intervention towards Sustainable development. 2.1 Land as a resource, soil health; ecological importance of soil; types and causes of soil degradation; impact of soil loss and soil degradation on agriculture and food security; land use planning, need for soil conservation and restoration of soil fertility. 2.2 Food resources: World food problems, techniques to increase world food production. Effects on farming communities and food security; effects on nutrient cycles; future effects of soil degradation; emerging threats to land degradation in developing countries. 2.3 Sustainability-issues related to sustainability, Eco-social approach to sustainability. Right to sustainable development, Articles 48A and 51A(g). Environmental Social Work- concepts, principles, advocacy, lobbying, environmental education for schools and colleges. Role of a Social Worker in conservation of the environment.	K1-K5	11	1-5
3	Water resources and conflicts in India 3.1 Water resources: supply, renewal, and use of water resources. Demand for water (agriculture, industrial, domestic); overuse and depletion of surface and ground water resources; water quality standards in India; hot spots of surface water; role of state in water resources management shortages and strategies of water conservation.	K1-K5	16	1-5

UNIT	CONTENT	CL	HRS	CO
	<p>3.2 Water resources and sharing problems, case studies on Kaveri and Krishna river water disputes; case studies of dams-Narmada and Tehri dam – social and ecological losses versus economic benefits; Multi-purpose river valley projects in India and their environmental and social impacts.</p> <p>3.3 National conflicts on water sharing between India and the neighbouring states; agreements to resolve these conflicts.</p>			
4	<p>Waste disposal and its effect on environment</p> <p>4.1 Impact of solid waste on environment, human and plant health; effect of solid waste and industrial effluent discharge on water quality and aquatic life; mining waste and land degradation.</p> <p>4.2 Types of industrial waste: hazardous and non-hazardous; effect of industrial waste on air, water and soil, industrial waste management and its importance, stack emission control and emission monitoring. Drawbacks in waste Management techniques.</p> <p>4.3 Municipal Solid Wastes (Management and Handling) Rules 2000; Hazardous Wastes Management and Handling Rules 1989; Bio-Medical Waste (Management and Handling) Rules 1998; Eco-friendly or green products.</p>	K1-K5	11	1-5
5	<p>Green future</p> <p>5.1 Agenda of green development; reduction of ecological footprint; role of green technologies towards a sustainable future; major challenges and their resolution for implementation green technologies.</p> <p>5.2 Green practices to conserve natural resources (organic agriculture, agroforestry, reducing paper usage and consumption, etc.); emphasis on waste reduction instead of recycling.</p> <p>5.3 Innovation for green future-its importance, role of advancement in science in developing environmental friendly technologies.</p>	K1-K5	11	1-5

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Brady, N.C. & Well, R.R. *The Nature and Properties of Soils* (15th edition), Pearson Education Inc. April 2016.

Dickman, A. J., *Complexities of conflict: the importance of considering social factors for effectively resolving human–wildlife conflict. Animal Conservation* 13: 458-466. 2010.

Mohan I. *Environmental Problems in 21st Century*, Anmol Publishers. New Delhi., 2002

Nancy L Mary, *Social Work in a Sustainable World*. Chicago: Lyceum Books 2008.

Thangavel, P. & Sridevi, G. *Environmental Sustainability: Role of Green Technologies*. Springer Publications, 2015
 Zapf M. K., *Social Work and the Environment: Understanding People and Place*. Ontario: Canadian Scholars Press 2009

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Arceivala, S.L., *Green Technologies: For a Better Future*. Mc-Graw Hill Publications.. 2014
 Marsh, W. M. & Dozier, J., *Landscape Planning: Environmental Applications*. John Wiley and Sons 1983.
 Oldeman, L. R. The global extent of soil degradation. *Soil resilience and sustainable land use*, 1994.
 Peterson, G. D., Cumming, G. S. & Carpenter, S. R., Scenario planning: a tool for conservation in an uncertain world. *Conservation Biology* 17: 358-366, 2003.
 Vickers, A. *Handbook of Water Use and Conservation*. Amherst, MA: WaterPlow Press, 2001
 Brebbia, C.A. *Water Resources Management VII*. WIT Press, 2013.
 Zapf M. K. *Social Work and the Environment: Understanding People and Place*. Ontario: Canadian Scholars, 2009.

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Gadgil, M.. Biodiversity and India's degraded lands. *Ambio* 22: 167-172. 3. A Journal of the Human Environment, Vol.22, No. 2/3, 1993.
<https://www.scirp.org/journal/oje/>
<https://theoreticalecology.wordpress.com/2016/07/28/isi-2015>

WEB RESOURCES

[www. publications.gc.ca/Collection-R/LoPBdP/BP/bp317-e.htm](http://www.publications.gc.ca/Collection-R/LoPBdP/BP/bp317-e.htm)
[www. unep.org/Documents/Default.asp?DocumentID=287](http://www.unep.org/Documents/Default.asp?DocumentID=287)
[enwikipedia.org/.../United_Nations_Conference_on_Sustainable_Development](http://en.wikipedia.org/.../United_Nations_Conference_on_Sustainable_Development).
www.socialworktoday.com/archive/092011p20.shtml
www.ecosocialwork.org/index.php?option=com_content...id...
www.academia.edu/4139398/Greeningof_Social_Work

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 x 20 Marks (Out of 2 Questions – 1 Question to be answered) 800 Words

Other Components:**Total Marks: 50**

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/ME/EI45												
VI	Course Title: Ecology, Development and Social Work Intervention												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	3	2	3	3	2	2	3	3
CO 2	2	3	2	2	2	3	2	3	3	3	2	2	2
CO 3	3	2	2	2	2	3	3	3	2	3	1	2	2
CO 4	3	3	1	2	2	1	1	2	1	2	2	2	2
CO 5	2	2	2	2	2	3	2	2	3	2	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023–2024)

SOCIAL WORK INTERVENTION IN DISASTER MANAGEMENT

CODE: 23SW/ME/DR45

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To know and understand various disasters
- To apply the disaster management process in the field
- To analyse the role of a social worker in disaster management
- To evaluate the role of Government in Disaster Management with the help of case studies
- To develop an understanding of Disaster Management

COURSE LEARNING OUTCOMES

On successful completion of Field Work, students will be able to:

COs	DESCRIPTION	CL
CO1	Know and understand various disasters	K1
CO2	Apply the disaster management process in the field	K2
CO3	Analyse the role of a social worker in disaster management	K3
CO4	Evaluate the role of Government in Disaster Management with the help of case studies	K4
CO5	Develop an understanding of Disaster Management	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Disasters – Introduction 1.1 Concept and Definition of Disaster; 1.2 Types of Disaster –Nature Induced Disasters with case studies and Human Induced Disasters with case studies. 1.3 Impact of disasters- Physical, Psychological, PTSD, Social, Economic, Ecological and Political.	K1-K5	14	1-5

UNIT	CONTENT	CL	HRS	CO
2	Disaster Management Phases 2.1 Goals of Disaster Management 2.2 Pre-disaster Phase: Prevention, mitigation, and preparedness Disaster Phase: Search and rescue, relief mobilization and management, evacuation. and camp management Post Disaster Phase: Reconstruction, rehabilitation, and recovery 2.3 Importance of Disaster Management	K1-K5	12	1-5
3	Disaster Prevention and Preparedness 3.1 Reduce Vulnerability, Disaster Risk Reduction, Disaster mapping, community based disaster preparedness programme, emergency preparedness, resource utilization, public awareness and education; first-aid training, 3.2 Role of NGOs, INGOs in disaster situations 3.3 Role of Volunteers and Media in Disaster Situations	K1-K5	13	1-5
4	Social Work Interventions in Disaster Management 4.1 Disaster Assessment, SWOC Analysis, Capacity Building, advocacy, networking and co-ordination in Disaster management. 4.2 Disaster counselling and Crisis intervention 4.3 Role of a Social Worker in Disaster Management	K1-K5	13	1-5
5	Role of the Government in disaster management 5.1 Role of the Central and State Government in disaster management 5.2 The Disaster Management Act- 2005, Hyogo Framework 5.3 Third UN World Conference on Disaster Risk Reduction in Sendai-2015-2030 (The Four Priorities for Action)	K1-K5	13	1-5

BOOKS FOR STUDY

Abarquez I. & Murshed Z. Community Based Disaster Risk Management. (2006).
B.K.Khanna. (2005). Disasters: All You Wanted to Know About, Delhi: New India Publishing Agency, Delhi.
Disaster Management Act. (2005). Ministry of Home Affairs, Delhi: Government of India.
Kapur, A. (2006). Disasters in India: Studies of Grim Reality, Jaipur: Rawat Publications.
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R.B. Singh (2009). Natural Hazards and Disaster Management: Vulnerability and Mitigation, Jaipur: Rawat Publications.
Sahni, Pardeep et.al. (eds.) (2002). Disaster Mitigation Experiences and Reflections, New Delhi: Prentice Hall of India.

BOOKS FOR REFERENCE

Bose, B. C. Disaster Management in India. New Delhi: Rajat, 2008.
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Goel, S. L. Disaster Management Organisations and Management, Health Management of Human Being and Animals. New Delhi: Deep & Deep, 2008.
Newburn, Tim. Disaster & After: Social Work in the Aftermath of Disaster. London: Jessica Kingsley, 1993.
Roy, Sanjay, K. Refugees and Human Rights. Jaipur: Rawat, 2001.
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Sinha, Prabhas Chandra. Disaster Management Process, Law, Policy & Strategy. New Delhi: SBS, 2019.
Sinha, Prabhas Chandra. Disaster Relief, Rehabilitation & Emergency Humanitarian Assistance. New Delhi: SBS, 2009.
Sinha, Prabhas Chandra. Disaster Vulnerabilities & Risks. New Delhi: SBS, 2007.
Sinha, Prabhas Chandra. Disaster Mitigation, Preparedness, Recovery & Response, New Delhi: SBS, 2006.
Verma, K. Manish. Development, Displacement and Resettlement. Jaipur: Rawat, 2004.

JOURNALS

The International Journal of Disaster Risk Reduction (IJDRR) National Institute of Disaster Management (NIDM)

WEB RESOURCES

www.unisdr.org
www.ndma.gov

ATTEN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/ME/DR45												
VI	Course Title: SOCIAL WORK INTERVENTION IN DISASTER MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	2	2	1	2	2	1	1	2	2	2
CO 2	1	2	1	3	3	2	3	2	2	2	3	2	2
CO 3	3	3	2	2	2	3	2	2	1	3	2	2	1
CO 4	2	2	2	2	1	2	2	3	2	2	3	2	3
CO 5	2	2	3	2	2	3	2	2	1	1	1	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIALWORK

SYLLABUS

(Effective from the academic year 2023–2024)

SOCIAL WORK WITH PERSONS WITH DISABILITIES

CODE: 23SW/ME/DS45

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS : 65

OBJECTIVES OF THE COURSE

- To understand the different types of Disabilities
- To orient the students about the various issues of people with disabilities
- To gain knowledge about various policies and laws related to people with disabilities
- To develop the ability to analyse and implement the various Rehabilitative measures for people with disabilities
- To create the ability to work with people with disabilities as full-fledged social workers.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Acquire knowledge about the different types of Disabilities.	K1
CO2	Explain about the various issues of people with disabilities	K2
CO3	Gain knowledge about various policies and laws related to people with disabilities	K3
CO4	Analyse and implement the various Rehabilitative measures for people with disabilities	K4
CO5	Gain insight to work for people with disabilities as full-fledged social workers.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Disability 1.1 Definition of Disability; Impairment and Handicap; Causes of Disabilities; 1.2 Types of various Disabilities and specific psychosocial issues involved in each disability Physical Disabilities- Locomotor, Cerebral palsy, sensory, spinal cord injury, stroke disability,	K1-K5	14	1 – 5

UNIT	CONTENT	CL	HRS	CO
	Multiple sclerosis. Mental Disability: Intellectual Disability, learning disability, Mental Illness, multiple disabilities, 1.3 Prevention of Disabilities at Primary, Secondary and Tertiary Levels			
2	Needs and Problems of Persons with Disabilities 2.1 Problems of People with Disabilities- related to activities of daily living, education, sexuality, integration, employment, interpersonal relationships and marriage Needs and problems of people living with disabilities across the Life Span. 2.2 Problems faced by Family members of People with Disabilities, 2.3 Disability and Gender issues-problems faced by women and girls with disabilities.	K1-K5	12	1-5
3	Contextual Understanding of Disability: 3.1 Contextual understanding of Disability from Medical perspectives 3.2 Contextual understanding of Disability from Social perspectives 3.3 Understanding of Strengths and Limitations of People with Disabilities.	K1-K5	12	1 –5
4	The Rehabilitation Process 4.1 Process of Rehabilitation: Early Identification and Treatment, 4.2 Education, Vocational Rehabilitation and Social Inclusion within the Family and Community 4.3 Different types of Aids and Assistive devices	K1-K5	14	1 – 5
5	Intervention strategies and the Rights of Persons with Disabilities 5.1 Social Work Intervention in working with People with Disabilities. Micro level- Counselling, 5.2 Mezzo level - Family Counselling and Parent Guidance and Training Self Help/support Groups, Life Skills Enrichment of people with Disabilities. 5.3 Macro Level- Community Awareness and Education, Community based Rehabilitation, Inclusive Approach and Accessibility. The Rights of Persons with Disabilities Act, 2016	K1-K5	13	1-5

BOOKS FOR STUDY

Albrecht G.L, Katherine D Selman & Michael Bury. Hand Book of Disability Studies. London: Sage, 2001.

Bacquer, A. and Sharma, A. (2007). Disability: Challenges vs Responses, Delhi: CAN Publications Grant, Learning disability: A Lifecycle Approach to Valuing People. London: Open U P, 2005.

Hegarty Seamus & Mithu Alur. Education and Children with Special Needs. London: Sage, 2002.

Karanth, Pratibha & Joe Rozario. Learning Disability in India. London: Sage, 2003.

Moore. Researching Disability Issues. London: Open U P, 2005.

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Action On Disability And Development: Building Abilities: A Handbook To Work With People With Disability. Bangalore. Books for Change Publications, 2001.

Barnes Colin & Mercer Goef: Exploring disability: a sociological introduction. (2) Cambridge. Polity Press, 2010.

Hans Asha & Patri Annie: Women, Disability and Identity. New Delhi. Sage Publications, 2003

Singh Awadhesh Kumar: Rights of the disabled: perspective, legal protection and issues. New Delhi. Serials Publications, 2008. 978-81-8387-199-0 1195--(362.4SIN)

The World Bank: People with disabilities in India: from commitments to outcomes. New Delhi. The World Bank, 2009. --(362.4T W B)

WEB RESOURCE

<https://www.slideshare.net/RuthBarkan/working-with-disability>

<https://slideplayer.com/slide/12984500/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 X 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 X 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/ME/DS45												
IV	Course Title: Disability and Social Work Practice												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 2	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 3	2	2	2	2	2	2	2	2	2	2	2	2	2
CO 4	3	3	2	2	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	2	3	2	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

FOOD, NUTRITION AND FOOD SECURITY

CODE: 23SW/ME/FN45

CREDITS:5

L T P:5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To define the concepts in Food, Nutrition and Food Security
- To understand the food groups, deficiency diseases, adulteration in food
- To apply the government programmes in Nutrition
- To classify the world food problems and the importance of Food Security
- To evaluate the benefits from available food resources

COURSE LEARNING OUTCOME

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the connections between health and food choices	K1
CO2	discuss about the guidelines Food Guide Pyramid and how to use it in their daily eating habits	K2
CO3	demonstrate the six classes of nutrients found in food and the roles they play in nutrition	K3
CO4	apply the knowledge on food adulteration	K4
CO5	criticise their own eating habits and food choices	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Food and Basic Nutrition 1.1 Food – Definition, Meaning, Classification of foods, Functions and sources of Carbohydrates, Proteins, Fats, Minerals, and Vitamins 1.2 Energy Functions of Food - Body building, Protection and Regulation and Maintenance foods 1.3 Concept of a Balanced Diet. 1.4 Nutrition – Definition of Nutrition and Nutrients, interrelationship between Nutrition and Health. 1.5 Food Guide – Basic food groups, usage of the food guide. 1.6 Role of Water in Nutrition	K1-K5	14	1 – 5

UNIT	CONTENT	CL	HRS	CO
2	Health and Nutritional Problems in India 2.1 Definition of Health and Fitness, Factors influencing Health and Wellbeing 2.2 Nutrient requirements for pregnant women, lactating mothers, pre-school, School going and elderly 2.3 Exercise, Physical Fitness and Health – their inter-relationship, Gender and Health 2.4 Protein Energy Malnutrition 2.5 Nutritional Problems related to – Iron, Vitamin B12, Iodine, Vitamin A, Folate, Vitamin C	K1-K5	14	1-5
3	Food Adulteration, Contamination and Food Hygiene 3.1 Common Adulterants, Food colourants –Permitted and Non permitted flavours of Spices, vegetables and fruits, fats and oils, meat, milk- artificial flavours. Health hazards of food adulterants. 3.2 Contamination of foods -different sources of contamination of foods-by plants, animal, sewage, soil, air, water, human beings. Fermentation, Putrefaction and Decay. 3.3 Food Hygiene - Food safety, Hygienic ways of handling food.	K1-K5	12	1 – 5
4	Government Programmes in Combating Malnutrition 4.1 Integrated Child Development Services (ICDS) Programme 4.2 Balwadi Nutrition Programme 4.3 Special Nutrition Programme 4.4 Vitamin A Prophylaxis Programme/ National Programme for Control of Blindness 4.5 National Nutritional Anaemia Prophylaxis Programme 4.6 National Iodine Deficiency Disorder Control Programme 4.7 Nutrition Programme for Adolescent Girls 4.8 Supplementary Nutrition Programme 4.9 Mid-Day Meal Programme 4.10 Minimum Needs Programme	K1-K5	14	1 – 5
5	Food Security 5.1 Definition of Food Security, Significance of Food Security, Effects of Food Insecurity, Challenges to achieving Food Security 5.2 Impact of Globalisation Policies on Food Security 5.3 Global Hunger Index 5.4 Right to Food, National Food Security Act 2013 5.5 Antyodaya Anna Yojana 2000	K1-K5	11	1 – 5

BOOKS FOR STUDY

Bamji MS, Krishnaswamy K, Brahman G NV (2009). Textbook of Human Nutrition, 3rd Edition, Oxford and IBH Publishing Co. Pvt. Ltd.

Srilakshmi (2007). Food Science, 4th Edition. New Age International Ltd.

BOOKS FOR REFERENCE

Bansal Shrinandan Food and Nutrition AITBS Publishers - Delhi, 2018

Seth V, Singh K Diet planning through the Life Cycle: Part 1. Normal Nutrition. A Normal Nutrition. A Practical Manual, Fourth edition, Elite Publishing House Pvt Ltd, 2005.

Wardlaw MG, Paul M Insel Mosby Perspectives in Nutrition, Third edition, 1996

WEB RESOURCES

en.wikipedia.org/wiki/Nutrition

www.nutritionj.com/

www.who.int/topics/nutrition/en/

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Duration: 90 Minutes

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	4	2 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	6	2 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	8	1 X 8 Marks (Out of 2 Questions – 1 Question to be answered) (250 Words)
D	K4	12	1 X 12 Marks (Out of 2 Questions – 1 Question to be answered) (350 Words)
E	K5	20	1 X 20 Marks (Out of 2 Questions – 1 Question to be answered) (800 Words)

Other Components:

Total Marks: 50

Seminars/Assignments/Problem Solving Case Studies/Quiz/Open book tests and other innovative testing methods.

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 X 2 Marks (All Questions to be answered) (50 Words)
B	K2	12	4 X 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2x18 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 x 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 X 20 Marks (Out of 4 Questions – 2 Questions to be answered) (800 Words)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23SW/ME/FN45												
IV	Course Title: FOOD, NUTRITION AND FOOD SECURITY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	2	1	2	1	2	2	3	2	2
CO 2	3	2	1	1	1	1	2	1	2	3	1	2	2
CO 3	3	2	1	1	1	1	2	1	2	1	2	3	2
CO 4	3	2	1	1	2	2	2	1	2	1	2	2	2
CO 5	3	3	1	1	2	3	2	3	2	1	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by the Department of Social Work for
B.A. / B.Sc. /B.Com. /B.B.A. / B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

MIGRATION ISSUES AND HUMAN SECURITY

CODE: 23SW/GE/MH22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To cite the issues related to Migration
- To understand migration in the context of development and displacement
- To explore current and emerging trends on internal and International migrations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the challenges faced by the migrants	K1
CO2	explain the effects of migration on development and displacement	K2
CO3	examine the role of organisations working for internal and international migrants	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Migration 1.1 Meaning and definition of Migration, Push and Pull Factors of migration. 1.2 Types of Migration, Concepts related to migration: Poverty, Unemployment, Seasonal Employment, Displacement, Brain Drain, Remittances, Feminisation of Migration, Illegal Migrants, Human Trafficking, Refugees, Statelessness, Naturalised Citizen, Migration and assimilation. 1.3 Patterns and Trends, Internal and International Migrants - Issues and Challenges with case studies 1.4 Migration in India: Introduction, India Diaspora, Labour Migration in India, Socio Cultural Implications. Intra and Inter-State migration, case studies.	K1-K3	8	1 – 3

UNIT	CONTENT	CL	HRS	CO
2	Social Stratification 2.1 Globalisation and Migration; Trends in International Migration; Skill and Gender Composition of Migration Flows 2.2 UN Convention 1990 - The Protection of the Rights of All Migrant Workers and members of their families, UN International Migration Policies, International Organisation for Migration (IOM), International Migration Law (IML), Role and Functions of Ministry of Overseas Affairs. 2.3 Indian Emigration Policy, the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979	K1-K3	10	1-3
3	Social Institutions 3.1 Meaning and Concept of Human Security, Need and Importance 3.2 Multi-Lateral Protection and Migration Issues, Colombo Process 3.3 Challenges faced by migrants: Social, Environmental, Cultural and Psycho-social challenges of the migrants with case studies 3.4 Laws related to migration and rights of migrants; Laws related to migrant workers in India.	K1-K3	8	1 – 3

BOOKS FOR STUDY

Amal Datta, *Human Migration. A Social Phenomenon*. India: Mittal, 2003.
 Caroline B. Brettel, James F. Hollifield, *Migration Theory: Talking Across Disciplines*, Routledge, 2000.
 Devesh Kapur. *Diaspora, Development, and Democracy: The Domestic Impact of International Migration from India*. India: Princeton University Press, 2010.

BOOKS FOR REFERENCE

David. J. Siddle. *Migration, Mobility and Modernisation*. Liverpool: Routledge, 2012
 Mansell Prothero. R and Murray Chapman. *Circulation in Third World Countries*. London: Routledge and Kegan Paul, 1983

JOURNALS

Internal Migration in India, Workshop Compendium Vol 1 & 2, UNICEF in collaboration with ICSSR, SDTT.
 Ethnicity, Identity and Migration Studies, Routledge, Taylor & Francis Group.
 Migration and Development, Routledge, Taylor & Francis Group.
 Migration Studies is an international refereed journal, Oxford University Press.
 Journal of International Migration and Integration, Population Studies,
 Springer Journal of Immigrant & Refugee Studies, Routledge, Taylor & Francis Group.
 Crossings: Journal of Migration and Culture, Intellect Publishers, USA

Internal Migration in India- Initiative for a better Inclusion of Internal Migration in India
– Policy Briefs.

India Migration Report 2009 - Past, Present and the Future Outlook, Cambridge
University Press, New Delhi

WEB RESOURCES

<http://www2.ohchr.org/english/bodies/cmw/cmw.htm>
<http://moia.gov.in/services>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components to be assessed for K levels 1 - 3

Task based classroom activities, Case studies, Group discussions, Group presentation, Role play

No End Semester Examination

No CA tests

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600 086

**General Elective Course Offered by the Department of Social Work for
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SYLLABUS

(Effective from the academic year 2023-2024)

MARRIAGE AND FAMILY LIFE EDUCATION

CODE:23SW/GE/MF22

CREDITS:2

LTP:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE:

- To enable students to acquire knowledge and establish a meaningful understanding of family life, marriage and responsible parenthood.
- To enable student to acquire skills necessary to develop and maintain satisfying and stable relationships.
- To comprehend and apply the services available for the welfare of the family.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand family life, marriage and responsible parenthood.	K1
CO2	examine reasons leading to disorganization in the family	K2
CO3	acquire skills to solve family problems, understand gender identity, LGBT issues and services available for the welfare of families.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	The Family 1.1 Definition, Characteristics and Functions of a Family, Importance of the Family for Individual, Types of Family, Changing Trends. 1.2 Marriage: Definition, Functions and Types of Marriages, Marriage- a Relationship, Purpose of Marriage, Reasons for Marriage - Positive and Negative, Right Outlook, Live-in-relationship and problems associated with it.	K1-K3	9	1-2
2	Conjugal Harmony 2.1 Husband and Wife Relationship: Differences between Men and Women, Accepting differences, Mutual Adjustments, Changing Roles of Husband & Wife Today (Career Women) and Appropriate Division of Roles	K1-K3	8	1-3

UNIT	CONTENT	CL	HRS	CO
	2.2 Communication in Marriage, Importance of Communication Between Partners in Marriage, Importance of Listening in Marriage, Handling Conflicts in Marriage. 2.3 Sexuality: Definition, determinants of Sexuality, Sex Education, Female reproductive system, Male reproductive system, LGBT, issues, Fear of Sex, Pregnancy and birth, Family planning.			
3	Family Disorganisation 3.1 Factors Contributing to Dysfunction of Family, Families in Difficult Situations (Harassment and Violence in Families, Addiction, Extra-Marital Affairs, Marital Rape, STD, HIV / AIDS, gonorrhea, syphilis, separation, Divorce, Desertion, Single Parent Families. 3.2 Family Welfare Services Pre-Marital Counselling, Family Counselling Centres, Family Court, All Women's Police Station.	K1-K3	8	1-3

BOOKS FOR STUDY:

H. Elizabeth Peters and Claire M. Kamp Dush Marriage and Family Perspectives and Complexities Columbia University Press 2009.
Mary Ann Lamanna and Agnes Riedmann Marriages, Families, and Relationships: Making Choices in a Diverse Society, Loose-Leaf Version 13th Edition 2017.
Kapadia, K., M. Marriage and Family in India. Australia: Oxford University Press, 1976.
William, J., Goode. The Family. New Delhi: Prentice Hall of India, Pvt. Ltd., 1989.

BOOKS FOR REFERENCE:

Betty, Carter and Monica, Mc Goldrick. The Changing Family Life Cycle – A Framework for Family Therapy. London: Ashgate, 1974.
Evely, Millis, Duvall. Family Development. London: Routledge and Kegan Paul, 1982.
Kaila, H., L. Women, Work and Family, New Delhi: Rawat Publications, 2005.
Klemers. Marriage and Family Relationships. London: Sage Publications 1995.
Marie, Mascarenhas. Family Life Education of Value Education. New Jersey: Prentice Hall 1999.
Pimeta, J. Grooming you for Marriage. Mumbai: St. Paul's Publications, 1998

JOURNALS

Journal of Family Issues Journal of Marriage and Family Life

WEB RESOURCES

www.familylife.com www.focusonthefamily.com

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components to be assessed for K levels 1 - 3

Task based classroom activities, Case studies, Group discussions, Group presentation, Role play

No End Semester Examination

No CA tests

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course Offered by the Department of Social Work for
B.A. / B.Sc. /B.Com. /B.B.A. / B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

UN SYSTEMS FOR DEVELOPMENT AND SOCIAL CHANGE

CODE: 23SW/GE/UN22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To list the global social issues
- To classify the current and emerging trends of operations by the UN
- To discover the programmes of the UN organisations

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the social issues at the global level	K1
CO2	understand the framework of operation of the UN system in understanding its functioning	K2
CO3	ascertain the role of youth in bringing about social change	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	The United Nations System 1.1 Historical Evolution, Main aim of the United Nations; Membership – rules 1.2 UN Principal Organs 1.3 UN Charter 1.4 International Observances of specific dates and years	K1-K3	8	1 – 3
2	Global Issues on the UN Agenda: Brief Overview 2.1 Women, Youth, Children, Refugees, Human Rights, Disaster relief, Disability, Food, Education, AIDS, Agriculture and Elderly 2.2 Millennium Development Goals, Sustainable Developmental Goals	K1-K3	9	1-3

UNIT	CONTENT	CL	HRS	CO
3	Programmes of the UN – Aims and Programmes 3.1 UN-Women, United Nations Development Programme (UNDP), United Nations Children’s Fund (UNICEF), Office of the United Nations High Commissioner for Refugees (UNHCR), Office of the United Nations High Commissioner for Human Rights (OHCHR), World Health Organisation (WHO), Food and Agriculture Organisation (FAO), World Food Programme (WFP), United Nations Educational Scientific and Cultural Organisations (UNESCO), Joint United Nations Programme on HIV/AIDS (UNAIDS) 3.2 Other related agencies: International Labour Organisation (ILO), United Nations Environment Programme (UNEP)	K1-K3	9	1 – 3

BOOKS FOR STUDY

Amal Datta, *Human Migration. A Social Phenomenon*. India: Mittal, 2003.
 Caroline B. Brettel, James F. Hollifield, *Migration Theory: Talking Across Disciplines*, Routledge, 2000.
 Devesh Kapur. *Diaspora, Development, and Democracy: The Domestic Impact of International Migration from India*. India: Princeton University Press, 2010.

BOOKS FOR REFERENCE

Basu, Rumki. *UN Structure and Function: An International Organisation*. New Delhi: Sterling, 1993.
 Black, K. J. *Development in Theory and Practice- Paradigms and Paradoxe*. Jaipur: Rawat, 2007.
 Boulder, Colo. *The United Nations and the Changing World Politics*. New York: West View, United Nations, 1997.
 Pant, S. K. *Human Development- Concept and Issues in the Context of Globalisation*. Jaipur: Rawat, 2006.
 Pawar, S. N. Ambekar, J., B., and Shrikant, D. *NGOs and Development - The Indian Scenario*. Jaipur: Rawat, 2004.
 Verma, K. Manish. *Development, Displacement and Resettlement*. Jaipur: Rawat 2004.
 Willets, Peter. *The Conscience of the World: The Influence of Non-Governmental Organisations in the UN Systems*. Washington DC: Brookings Institutions, 1996.

JOURNALS

UN Chronicle (2007, 2008)

WEB RESOURCES

Academic Council on the United Nations System: www.brown.edu/departments/ACUNS/
 United Nations: <http://www.unitednations.org>
 World Bank: <http://www.worldbank.org>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components to be assessed for K levels 1 - 3

Task based classroom activities, Case studies, Group discussions, Group presentation, Role play

No End Semester Examination

No CA tests

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by the Department of Social Work for
B.A. / B.Sc. /B.Com. /B.B.A. / B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

HUMAN RIGHTS AND JUSTICE ISSUES

CODE: 23SW/GE/HJ22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To understand the Basic Human Rights, its historical evolution.
- To know the various human rights and justice issues concerning specific vulnerable groups.
- To analyse the strategies for protection of Human Rights.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Develop an Awareness on Human Rights and Justice Issues	K1
CO2	Promote the interests of the Marginalized groups	K2
CO3	Develop awareness on the strategies to protect human rights	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Human Rights 1.1 Definition and Importance of Human Rights, Important historical milestones in the Evolution of Human Rights 1.2 Universal Declaration of Human Rights, 1948, International Covenant on Civil and Political Rights, 1966, International Covenant on Economic, Social and Cultural Rights 1.3 Indian Constitution: Fundamental rights and Duties, Directive Principles of State Policy.	K1	6	CO1
2	A Brief Overview of Justice Issues Concerning: 2.1 Women 2.2 Children 2.3 Dalits and Tribes 2.4 Unorganised Labourers 2.5 Prisoners 2.6 Agricultural farmers 2.7 Displaced people 2.8 Differently abled	K2	11	CO2

UNIT	CONTENT	CL	Hrs	CO
3	Introduction to Strategies for Protection of Human Rights 3.1 Consumer rights 3.2 Public Interest Litigation 3.3 Right to Information 3.4 Free legal Aid 3.5 Key organizations working in the field of Human Rights.	K3	9	CO3

PATTERN OF ASSESSMENT

Continuous Assessment: Total Marks: 50

Two to three components will be assessed for all cognition levels between K1 – K3 Quiz/Case studies/Group Discussion/Presentation/Role Play

No End Semester Examination

No CA Test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**General Elective Course Offered by the Department of Social Work for
B.A. / B.Sc. /B.Com. /B.B.A. / B.C.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023–2024)

CONFLICT AND PEACE BUILDING

CODE:23SW/GE/CP22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To build an understanding on conflict and related issues.
- To develop appreciation for India's multi-cultural and multi-religious traditions and sensitivity towards difference.
- To develop the capacity to understand the wide range of activities associated with capacity building, reconciliation and societal transformation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Identify and describe attitudes and knowledge on conflict and related issues.	K1
CO3	Understand the range of activities to be undertaken for India's multi-cultural and multi-religious traditions and sensitivity towards differences.	K2
CO5	Examine the application of peace strategies in addressing social issues.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Conflict and Peace 1.1 Conflict – meaning and definition, sources and types of conflict; Other related concepts to conflict – violence, difference between conflict and violence, terrorism, war, genocide 1.2 Brief overview of problems in India and its causative factors: criminalisation, communalisation, Caste violence, communal violence, state-sponsored violence, resource-based violence, religious fundamentalism, regionalism, fanaticism.	K1-K3	9	1 –4

UNIT	CONTENT	CL	HRS	CO
	1.3 Peace – meaning and definition; Other related concepts to peace: peace-making, peace keeping, peace building, and reconciliation. 1.4 Indian thinkers and the concept of Peace: Kautilya, Buddha and Gandhi			
2	Response, Mechanism and Techniques for coping with Conflict 2.1 Working on Rights Based Approach and The Gandhian Approach 2.2 Religion – major religions and their philosophy: techniques/methods of conflict transformation with special reference to Christianity, Buddhism, Hinduism, Islam and Jainism 2.3 Win-lose, lose-lose, win-win outcomes. 2.4 Skills in Peace Building - Effective Communication, Dialogues, Negotiation, Empathy, Problem Solving	K1-K3	8	1 – 5
3	Peace Interventions and Social Change 3.1 The Role of Civil Society, Media, and Religion in Building Lasting Peace 3.2 Peace Intervention Models - Overview: John Paul Lederach's Model of Hierarchical Intervention Levels and Johan Galtung's Model of Conflict Resolution 3.3 National and International agencies and their Interventions: UN Initiative for Peace – specialised agencies: ICJ, EU, AU; Peace March, Peace Movements, and Peace Corps	K1-K3	9	1- 5

BOOKS FOR STUDY

Kalapati Joshua, M.M. Ross, C.S.E. Ross. An Introduction to Peace and Conflict Studies in Colleges. Delhi: Cambridge Press, 2015.

Raghavan V.R. Conflict Resolution and Peace Building in Sri Lanka, New Delhi: Tata McGraw-Hill, 2005

Shukla R.P. Value Education and Human Rights. New Delhi: Sarup & Sons, 2004.

BOOKS FOR REFERENCE

Arulsamy. S. Religion for a New Society. Delhi: ISPCK, 2000.

Bercovitch. J., & Jackson. R. Conflict Resolution in the Twenty-first Century: Principles, Methods, and Approaches. Ann Arbor, MI: University of Michigan Press, 2009.

Baskaran M. Willaim. Indian Perspectives on Conflict Resolution. Kerala: Gandhi Media Centre, 2004.

Dominelli Lena. Anti-Oppressive Social Work Theory and Practice. New York: Palgrave Macmillan, 2002.

Esman J. Milton. An Introduction to Ethnic Conflict. Cambridge: Polity Press, 2004.

Galtung Johan. Peace by Peaceful Means: Peace and Conflict, Development and Civilisation. New Delhi: Sage Publications, 2012.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three components will be assessed for all cognition levels between K1 – K3

Quiz/Case studies/Group Discussion/Presentation/Role Play

No End Semester Examination

No CA Test

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.S.W. DEGREE: BACHELOR OF SOCIAL WORK

SYLLABUS

(Effective from the academic year 2023-2024)

LEADERSHIP AND DEVELOPMENT

CODE:23SW/UI/LT23

CREDITS:3

OBJECTIVES OF THE COURSE

- To understand the meaning and concept of leadership, skills and management.
- To promote understanding the theoretical frameworks of Leadership.
- To gain knowledge about the basics of training and development

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to:

COs	DESCRIPTION	CL
CO1	Identify and describe meaning and concept of leadership, skills and management.	K1
CO2	Demonstrate the understanding the nature of teams and importance of team building.	K2
CO3	Analyse theoretical frameworks of leadership.	K3
CO4	Explore the concepts of training and development.	K4
CO5	Examine the application of programmes for training.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	CO
1	Introduction to Leadership 1.1 Leadership: Meaning and Definition 1.2 Types of leaders and Styles of Leadership 1.3 Characteristics and Functions of Leadership, Values and Ethics of Leadership 1.4 Theories of Leadership: Leader Member Exchange Theory; Contingency Theory; Path- Goal Leadership Theory; Transformational Leadership Theory, and Charismatic Theory	K1-K5	1 – 5

UNIT	CONTENT	CL	CO
2	Leadership 2.1 Team building: Definition, Steps to Team Problem Solving - Brain Storming 2.2 Skills in Leadership: Basic and Advanced Skills in Leadership 2.3 Strategic Leadership: Importance and the Nature of Strategic Leadership - Components of Strategic Leadership Practicum - Biographical Study of Leaders.	K1-K5	1 – 5
3	Understanding Training 3.1 Understanding of Training - Meaning and Scope, Concept of Training, Training and Education, Training and Teaching, Key Facets of Training, Participatory Training, Facilitative Training 3.2 Levels of Training, Modes of Training - Face-to-Face Training, Distance Training, E-training, Key Roles and Responsibilities of the Trainers	K1-K5	1 – 5
4	Training and Development Methods 4.2 Importance and Functions of Training and Development Methods 4.2 Training and Development Methods: Lecture, Case study, Role-play 4.3 Management Games, Assignments, Group Discussions, Panel Discussions 4.4 Brainstorming, Preparing and using Training Support Materials, Training through Placements	K1-K5	1 – 5
5	Evaluation of Training and Development Programmes 5.1 Need and Purpose of Evaluation of Training Programmes 5.2 Monitoring and Improving Training during the Programme 5.3 Stages of Evaluation in Training Programmes - Pre-training, Ongoing, End Programme and Post-training Evaluation.	K1-K5	1 – 5

BOOKS FOR STUDY

Du Brin. Leadership Research Findings & Skills. Chennai: All India Publishers and Distributors, 1998.

Peter. G. Leadership: Theory and Practice. Sage Publication, New Delhi (2005). Rolf P Lynton, Udai Pareek. Training for Development. 2nd Edition, Vistaar Publications, New Delhi (1990).

BOOKS FOR REFERENCE

- Anthony. Training and Development. Infinity Books, 2004.
- Agochiya Devendra. Ellesy Trainer's Hand Book. California: Sage, 2007.
- Dugan Laird. Approaches to Training and Development. Jaipur: Rawat, 2007.
- Foshay, R Wellesley, Silber, H Kenneth, Stelnicki, B Michael. Writing Training Materials that Work. USA Landale: Jossey-Bass, 2003.
- Patel, Ashraf, et.al. The Ocean in a drop: Inside – out Youth Leadership. New Delhi: Sage, 2013.
- Posner, K. Leadership Challenges (3rd Edn.) New Delhi: Wiley India Pvt Ltd., 2006.
- Rao P L. Enriching Human Capital through Training and Development. New Delhi: Excel Books, 2008.
- Robert Mai, and Allen Kakerson. The Leader as a Communicator. New Delhi: Prentice Hall, 2007.
- Robert F Mager HRD. Training and Development – Vol 5 (Goal Analysis). Jaico, 1999.
- Sudarshan Kumar Bhatia. Training and Development Concepts and Practices. New Delhi: Elegant, 2009.
- William J Rothwell. Beyond Training and Development. Mumbai: Jaico, 2007.

JOURNAL

The Leadership Quarterly, Elsevier

WEB RESOURCES

- http://changingminds.org/disciplines/leadership/theories/leadership_theories.htm
- <http://www.leadersdirect.com/mind.html>
- http://www.nwlink.com/~donclark/leaderrship/development/leadership_development_model.html
- <http://www.see.ed.ac.uk/~gerard/MENG/ME96/index.html> www.businessballs.com

PATTERN OF ASSESSMENT

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Cognitive Level	Marks Distribution	Pattern
A	K1	8	4 x 2 Marks (All questions to be answered) (50 Words)
B	K2	12	4 x 3 Marks (All Questions to be answered) (75 Words)
C	K3	16	2 x 8 Marks (Out of 4 Questions – 2 Questions to be answered) (250 Words)
D	K4	24	2 x 12 Marks (Out of 4 Questions – 2 Questions to be answered) (350 Words)
E	K5	40	2 x 20 Marks (Out of 4 Questions – Questions to be answered) (800 Words)



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

**B.A. DEGREE
TOURISM AND TRAVEL MANEGEMENT
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)**

**SYLLABUS
(Effective from the academic year 2023 – 2024)**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI- 600086

DEPARTMENT OF HISTORY

PROGRAMME DESCRIPTION

B.A. TOURISM AND TRAVEL MANAGEMENT

The B.A. Degree programme on Tourism and Travel Management has been initiated by Stella Maris College in keeping with the felt need to have well-trained personnel with requisite skills and competency to take up careers in the tourism and hospitality industry. Being a service industry there is ample scope for jobs both in the semi-skilled and skilled sectors. Being a skill development programme, the students will be industry ready on completion. In the conduct of the programme there will be a close collaboration with leading travel and hospitality agencies to ensure maximum industry exposure and experience. Students will be doing courses on Front Office Management, Travel Agency and Tour Operators Management, Advertising for Tourism, Public Relations for Tourism, Human Resource Management, Hospitality Management, Tourism and Cuisines, Tourism Law, Airport Customer Relations, Entrepreneurship in Tourism, etc., and they will be able to take up careers as Front Office Personnel, Travel Desk Operators, Travel Agents, Tour Operators, Tour Guides, Tour Managers, Human Resource Managers, Housekeeping Managers, Food and Beverage Managers, Tourism Board personnel, and Travel Consultants.

VISION

To build a community of empowered women - students, teachers, and alumnae - who are responsible citizens and have the knowledge, skills, and sensitivity to value and protect India's diversity, heritage, and culture, and who practice the values of inclusiveness, compassion and humaneness.

MISSION

To create in our students an understanding of the fundamental facets and the methods of scholarship in the fields of history and tourism; expose them to rigorous academic standards; and to create a lively educational environment enriched by collaboration with industry and hands-on learning

Programme Specific Outcomes (PSOs)

BA Tourism & Travel management

On successful completion of the programme, graduates will

PSO 1	understand the scope of the tourism industry and evaluate opportunities for entrepreneurship.
PSO 2	enhance their communication, teamwork, and leadership skills.
PSO 3	apply their knowledge to develop the tourism and hospitality industry
PSO 4	show openness to diversity and the promotion of global citizenship.
PSO 5	display understanding of and sensitivity to socio-economic, cultural and environmental issues.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.A. TOURISM AND TRAVEL MANAGEMENT 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	3	4	3	4	3	4	3	4					12	16
Part - II														
English	3	4	3	4	3	4	3	4					12	16
											Total		24	32
Part - III	4	5	4	5	4	5	4	5	4	5	4	5	24	30
Major Core	3	4	4	5	3	4	4	5	4	5	4	5	22	28
									4	5	4	5	8	10
									3	4	3	4	6	8
Allied Core	5	5	5	5	5	5	5	5					20	20
Major Elective							5	5			5	5	10	10
Int. Dis. Core									5	6			5	6
											Total		95	112
Part - IV														
GE / Basic Tamil			2	2	2	2			2	2	2	2	8	8
Value Education	2	2			2	2							4	4
Soft Skills (dept.)	3	3			3	3							6	6
Soft Skills (EL)			3	3									3	3
Soft Skills (VE)											3	3	3	3
Environmental Studies	2	2											2	2
											Total		26	26
Part - V														
STP	1		1										2	0
SAP / SL									2	2			2	2
Remedial / Library				1				1					0	2
Mentoring		1		1		1		1		1		1	0	6
											Total		4	10
Total	26	30	25	30	25	30	24	30	24	30	25	30	149	180

Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
SEMESTER I									
23TT/MC/TO14	Introduction to Tourism	4	4	1	0	3	50	50	100
23TT/MC/TA13	Travel Agency and Tour Operators Management	3	3	1	0	3	50	50	100
23TT/AC/MS15	Map Study for Tourism	5	5	0	0	3	50	50	100
23TT/GC/ES12	Environmental Studies	2	2	0	0	-	50	-	100
23TT/SS/PS13	Life Skills: Personal and Social	3	3	0	0	-	50	-	100
CD/ET/SC	Value Education								
SEMESTER II									
23TT/MC/FM24	Front Office Management	4	4	1	0	3	50	50	100
23TT/MC/IH24	History of India I (upto the 17th Century)	4	4	1	0	3	50	50	100
23TT/AC/IG25	International Tourism Geography	5	5	0	0	3	50	50	100
	Life Skills: Personality Development (EL)	3	3	0	0	-	50	-	100
	Basic Tamil I / General Elective I								
SEMESTER III									
23TT/MC/HI34	History of India II (from the 17th to 20th Century)	4	4	1	0	3	50	50	100
23TT/MC/HM33	Hospitality Management	3	3	1	0	3	50	50	100
23TT/AC/RM35	Human Resource Management	5	5	0	0	3	50	50	100
23TT/SS/HC13	Life Skills: Health, Energy and Computer Basics	3	3	0	0	-	50	-	100
CD/ET/SC	Value Education								
	Basic Tamil II / General Elective II								
SEMESTER IV									
23TT/MC/GC44	Global Cuisines	4	4	1	0	3	50	50	100
23TT/MC/HC44	Indian Heritage and Culture	4	4	1	0	3	50	50	100
23TT/AC/PT45	Public Relations for Tourism	5	5	0	0	3	50	50	100
	Major Elective-I								
SEMESTER V									
23TT/MC/ET54	Emerging Trends in Tourism	4	4	1	0	3	50	50	100
23TT/MC/AA54	Art and Architecture of India	4	4	1	0	3	50	50	100
23TT/MC/EM54	Event Management	4	4	1	0	3	50	50	100
23TT/MC/TF53	Ticketing and Fare Construction	3	3	1	0	3	50	50	100
Interdisciplinary Core (TT and CM) to students of Tourism & Travel Management									
23ID/IC/TM55	Tourism Marketing	5	5	1	0	3	50	50	100
	General Elective III								
	SAP / SL								
SEMESTER VI									
23TT/MC/GM64	Global Tourism	4	4	1	0	3	50	50	100
23TT/MC/MT64	Medical Tourism	4	4	1	0	3	50	50	100
23TT/MC/EI64	Entrepreneurship in Tourism	4	4	1	0	3	50	50	100
23TT/MC/CL63	Tourism Cargo and Logistics	3	3	1	0	3	50	50	100
23VE/SS/HL63	Life Skills:An Approach to a Holistic Way of Life	3	3	0	0	-	50	-	100
	Major Elective-II								
	General Elective IV								

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.A. DEGREE: TOURISM AND TRAVEL MANAGEMENT

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

C-Credit, L-Lecture Hours, T-Tutorial Hours, P- Practical Hours, Ex-Exam Hours, CA- Continuous Assessment Marks, ES-End Semester Marks, M-Maximum Marks									
Subject Code	Title of Course	C	L	T	P	Ex	CA	ES	M
Major Electives									
23TT/ME/TL45	Tourism Law	5	5	0	0	3	50	50	100
23TT/ME/EC45	Eco Tourism and Sustainability	5	5	0	0	3	50	50	100
23TT/ME/TT45	Technology in Tourism	5	5	0	0	3	50	50	100
23TT/ME/AR45	Airport Customer Relations	5	5	0	0	3	50	50	100
23TT/ME/PR45	Project	5	0	0	5	-	-	50	100
General Electives									
23TT/GE/TT22	Travel and Tourism	2	2	0	0	-	50	-	100
23TT/GE/TW22	Travel Writing	2	2	0	0	-	50	-	100
23TT/GE/AT22	Advertising for Tourism Business	2	2	0	0	-	50	-	100
23TT/GE/HT22	Heritage Tourism	2	2	0	0	-	50	-	100
23TT/GE/VT22	Virtual Tourism	2	2	0	0	-	50	-	100
The Department will offer one Social Awareness Course									
Social Awareness Courses									
23TT/SA/RD52	Rights of Differently Abled	2	2	0	0	-	50	-	100
23TT/SA/CR52	Child Rights	2	2	0	0	-	50	-	100
23TT/SA/CA52	Civic Awareness	2	2	0	0	-	50	-	100
23TT/SA/HW52	Health and Wellbeing	2	2	0	0	-	50	-	100
23TT/SA/MH52	Mental Health	2	2	0	0	-	50	-	100
23TT/SA/RR52	Rural Realities	2	2	0	0	-	50	-	100
23TT/SA/SE52	Social and Economic Issues	2	2	0	0	-	50	-	100
23TT/SA/UR52	Urban Realities	2	2	0	0	-	50	-	100
23TT/SA/SZ52	Care of Senior Citizens	2	2	0	0	-	50	-	100
Service Learning Course (specific to the Department)									
23TT/SL/HA52	Heritage Awareness	2	2	0	0	-	50	-	100
Independent Electives									
23TT/UI/TP23	Tourism Products of India	3	0	0	0	3	-	100	100
23TT/UI/TR23	Tourist Transportation	3	0	0	0	3	-	100	100

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE–TOURISM AND TRAVEL MANAGEMENT SYLLABUS

(Effective from the academic year 2023-2024)

INTRODUCTION TO TOURISM

CODE: 23TT/MC/TO14

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the definitions of tourism
- To discuss the evolution of travel and tourism to the present day.
- To equip students with fundamental knowledge of the basic concepts of tourism
- To aid students in comprehending the significance of various segments of tourism industry.
- To discuss the functioning of tourism administration.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	list out the types of tourists.	K1, K2
CO2	describe travel motivations.	K3
CO3	distinguish the role of tourism stakeholders involved in the functioning of the industry.	K4
CO4	assess the developing patterns in tourism industry.	K5
CO5	prepare tour itineraries.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definitions: Tourism, Tourist, Traveller, International and Domestic Tourist, Excursionist, Transit visitor, Incentive Travel, Day tripper, Stay over, Tour, Package Tours, Grand tour, Itinerary 1.2 History, Evolution and Development of Tourism: World, India 1.3 Basic Travel motivators - Basic components of Tourism – Elements of Tourism	K1-K4 K1-K5 K1-K5	10	1-5
2	Tourism Paradigms 2.1 Types of Tourism 2.2 Travel Circuits: Golden triangle, Desert circuit, Buddhist circuit 2.3 Special Interest Tourism	K1-K4 K1-K5 K1-K5	15	CO1-5
3	Leisure and Recreation 3.1 India: UNESCO Heritage sites- statistics 3.2 Indian railways – Special trains 3.3 Holiday Sea Cruises	K1-K4 K1-K4 K1-K4	15	CO1-5
4	Tourism Administration in India 4.1 Ministry of Tourism – ITDC – TTDC 4.2 Tourist Information centres – NTOs 4.3 India: State Tourism Development Corporations	K1-K4 K1-K5 K1-K5	15	CO1-5
5	Emerging Trends in Tourism 5.1 Fashion tourism, Dark tourism, Space tourism, Virtual tourism, Pop-culture tourism 5.2 Heritage hotels – Rajasthan, Gujarat, Kerala 5.3 Incredible India – Brand ambassadors for Tourism promotion	K1-K6 K1-K5 K1-K5	10	CO1-5

BOOKS FOR STUDY

Camilleri, Mark Anthony. *Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice*. Switzerland: Springer Publications, 2018.
 Vasudevan, Venu., Vijayakumar, B., Saroop Roy, B.R. *An Introduction to the Business of Tourism*. New Delhi: Sage Publications, 2017.

BOOKS FOR REFERENCE

Sharma, Kshitiz. *Introduction to Tourism Management*. McGraw Hill Education, 2017.
 Walker, John R. *Introduction to Hospitality*. Pearson, 2017.
 Kumar, Chiranjib, Choudhary, Aditi. *Introduction to Tourism & Hospitality*. CreateSpace Independent Publishing Platform, 2017.
 Barkat, A.M.A. *Travel and Tourism Management*. Prentice Hall India Learning, 2015.
 Page, Stephen J. *Tourism Management*. Routledge, 2015.

JOURNALS

International Journal of Tourism Research, John Wiley & Sons.

ASEAN Journal on Hospitality and Tourism, Tourism Research and Development Centre.

WEB RESOURCES

www.worldleisure.org tourism.gov.in/

<https://www.tourismcares.org/>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50 marks	9	13

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 question	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 question	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/TO14												
	Course Title: Introduction to Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	3	1	1	1	1	1	1	2	2	2
CO 2	1	1	3	3	3	1	1	1	2	1	3	3	3
CO 3	2	2	2	3	2	1	2	1	3	3	3	2	2
CO 4	2	3	3	3	3	1	2	2	3	1	3	3	2
CO 5	3	3	3	2	2	2	1	1	1	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

TRAVEL AGENCY AND TOUR OPERATORS' MANAGEMENT

CODE: 23TT/MC/TA13

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To discuss the evolution of travel agencies and tour operations.
- To enable students to understand the operations of various real travel agencies.
- To teach students effective operations of tour activities.
- To discuss how travel needs are effectively handled by the travel agencies.
- To understand the regulations governing travel and tour services.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	list out and classify the responsibilities of travel agents.	K1, K2
CO2	demonstrate knowledge of the structure of travel agencies and travel associations.	K3
CO3	distinguish between the processes of tour operations, travel formalities, and functions.	K4
CO4	evaluate methods of financial management in tour operations.	K5
CO5	plan aspects of tour operations.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction			
	1.1 Meaning and Definition of a Travel Agency and Tour Operators	K1-K4		
	1.2 Development of travel agency business – National and International Travel Agencies- Cox & Kings, SITA, TCI and Thomas Cook.	K1-K4	10	1-5
	1.3 Difference between travel agency and tour operator.	K1-K5		

UNIT	CONTENT	CL	HRS	CO
2	Organisational Structure 2.1 Growth and structure of the travel agency - Types of Travel Agencies 2.2 Tour Operators – Distinction between Wholesale Travel Agency and Tour Operator. 2.3 ITDC – TTDC – TAAI – IATA - WTO	K1-K4 K1-K5 K1-K5	10	1-5
3	Travel Formalities and Functions of a Travel Agent 3.1 Travel formalities – Passport – Visa - Health certificates - Taxes - customs, Currency - Travel insurance - Baggage and airport information. 3.2 Functions of a travel agency – TIM 3.3 Itinerary preparation – reservation – ticketing - Tour packages - handling clients International Travel Counters	K1-K4 K1-K4 K1-K6	12	1-5
4	Planning and Costing 4.1 Source of Income - Commission - Service Charges- Incentives 4.2 Planning and Costing – Budgeting 4.3 Post tour Management – Statement of accounts	K1-K4 K1-K5 K1-K5	10	1-5
5	Functions of a Tour Operator 5.1 Market research and tour package 5.2 Types of Tour operations 5.3 Ethical and Legal responsibilities of Travel agencies – Business ethics	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Camilleri, Mark Anthony. *Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice*. Springer Publications, 2018.
Vasudevan, Venu., Vijayakumar, B., Saroop Roy, B.R. *An Introduction to the Business of Tourism*. Sage Publications, 2017.

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Walker, John R. *Introduction to Hospitality*. Pearson, 2017.
Kumar, Chiranjib., Choudhary, Aditi. *Introduction to Tourism & Hospitality*. CreateSpace Independent Publishing Platform, 2017.
Barkat, A.M.A. *Travel and Tourism Management*. Prentice Hall India Learning, 2015.
Page, Stephen J. *Tourism Management*. Routledge, 2015.

JOURNALS

International Journal of Tourism Research, John Wiley & Sons.
ASEAN Journal on Hospitality and Tourism, Tourism Research and Development Centre.

WEB RESOURCES

<https://www.britannica.com/topic/tourism>

www.worldleisure.org

<https://www.tourismcares.org/>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50 marks	9	13

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 question	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 question	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/TA13												
	Course Title: Travel Agency and Tour Operators Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	2	2	2	3	2	3	3	3
CO 2	3	2	3	3	3	3	1	1	3	2	3	3	3
CO 3	3	3	3	3	3	3	2	2	3	3	3	2	3
CO 4	3	2	3	3	3	2	1	1	3	1	3	1	2
CO 5	3	2	3	3	2	3	1	1	3	1	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

MAP STUDY FOR TOURISM

CODE: 23TT/AC/MS15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To teach students how to label tourists' maps.
- To show how maps provide information regarding the locations of tourist attractions.
- To identify how tourist map can be effectively used in preparing tour itineraries.
- To understand the concepts of time zones.
- To explain the significance of responsible travel.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	list and compare the different types of maps.	K1, K2
CO2	identify the toposheet, map and atlas.	K3
CO3	calculate the international time difference between countries.	K4
CO4	evaluate the use of nature-based attractions to promote ecotourism.	K5
CO5	create tourist maps based on tour itinerary using open-source software and digitize tourist maps using apps.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Maps 1.1 History of map-making, introduction to cartography and map elements. 1.2 Conventional signs and symbols, latitude and longitude coordinate system. 1.3 Understanding and reading maps.	K1-K4 K1-K5 K1-K5	10	1-5
2	Physical and Political features of India and Transportation System 2.1 Physiographic regions of India 2.2 States and Union territories 2.3 Transportation System – three central concepts	K1-K4 K1-K5 K1-K5	15	1-5

UNIT	CONTENT	CL	HRS	CO
3	World Time zones and elapsed travel time 3.1 GMT, World Time zones and international date line, DST 3.2 International time calculation exercise 3.3 Preparing travel itinerary based on time zones	K1-K4 K1-K4 K1-K4	15	1-5
4	Innovation in Map Making 4.1 Technology in tourist map-making, introduction to GIS and Remote sensing 4.2 Introduction to QGIS, google earth pro, Google my maps. 4.3 Preparing tourist maps using open-source software	K1-K4 K1-K5 K1-K6	15	1-5
5	Eco-tourism attractions 5.1 Eco-tourism and places of natural beauty in each state/union territory 5.2 Preparing maps of India showing major tourist circuits 5.3 UNESCO World Heritage Sites in India	K1-K5 K1-K6 K1-K5	10	1-5

BOOKS FOR STUDY

Husain Majid, *Concise Geography*. Tata McGraw Hill, 2011.

Singh Surender, *Topography*. Tata McGraw Hill, 2011.

BOOKS FOR REFERENCE

Chopra, J. K. *Unique Quintessence of Geography of India*, Unique Publishers, 2012

Sharma, Pradeep. *Human Geography*, Discovery Publishing, 2007.

Williams, Stephen. *Tourism Geography*, Routledge, 2007.

Clifford, Nicholas., and Holloway, Sarah. *Key Concepts in Geography*. Sage Publications, 2009

Marshall, Tim. *Prisoners of Geography: Ten Maps That Explain Everything about the World*. Scribner, 2015.

JOURNALS

The Geographer, AMU Geographical Society.

International Journal of Geomatics and Geosciences, Integrated Publishing Association.

WEB SOURCES

Website of the National Geographic Magazine (www.nationalgeographic.com)

Mapping our World by Oxfam Education

(<https://www.oxfam.org.uk/education/resources/mapping-our-world>)

<https://www.google.com/maps/about/mymaps/>

<https://earth.google.com/web/>

<http://www.gcmap.com/>

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50 marks	9	13

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 question	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 question	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/AC/MS15												
	Course Title: Map Study for Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	1	3	1	1	3	1	3	3	2
CO 2	2	1	3	3	1	3	1	1	3	1	3	2	1
CO 3	2	3	3	3	1	3	1	2	3	1	3	3	3
CO 4	3	2	3	3	3	3	1	1	3	2	3	3	3
CO 5	3	3	3	3	2	3	1	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Core Course Offered to students of
B.A. / B.Sc. / B.Com. /B.S.W/ B.B.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

ENVIRONMENTAL STUDIES

CODE:23TT/GC/ES12

CREDITS:2

L T P: 2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To help students to gain the fundamental knowledge of the environment
- To create in students an awareness of current environmental issues
- To inculcate in students an eco-sensitive, eco-conscious and eco-friendly attitude

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- Articulate the interdisciplinary context of environmental issues
- Adopt sustainable alternatives that integrate science, humanities and social perspectives
- Appreciate the importance of biodiversity and a balanced ecosystem
- Calculate one's carbon footprint

Unit 1 (10 Hours)

- 1.1 Introduction: The multidisciplinary nature of environmental studies;
Environmental Ethics-Role of the Individual in protecting the environment
- 1.2 Natural Resources: renewable (forests and water) and non-renewable (minerals)-
energy resources: renewable and non-renewable sources, impact of over-
exploitation
- 1.3 Ecosystems: terrestrial (forest, grassland and desert) and aquatic (ponds, oceans
and estuaries); structure and function
- 1.4 Biodiversity: India as a mega-diversity nation; threats to biodiversity; *in-situ* and
ex-situ conservation of biodiversity
- 1.5 Solid Waste Management, Source Segregation and Rain Water Harvesting

Unit 2 (10 Hours)

- 2.1 Environmental Pollution: Air, Water, Noise and Plastic Pollution: causes, effects
and control measures -Impact of over-population on pollution and health –
carbon footprint
- 2.2 The Environmental Dimension of Sustainable Development: The United Nations
Sustainable Development Goals of the 2030 Agenda

- 2.3 Climate Change and Environmental Disasters: Natural Disasters: floods, earthquakes, cyclones, tsunamis and landslides; man-made disasters: Bhopal Gas Tragedy and Chernobyl Nuclear Disaster
- 2.4 Environmental Movements: Chipko, Silent Valley and Narmada Bachao Andolan International Agreements: Montreal Protocol, Kyoto Protocol and Climate Change Conferences
- 2.5 An Overview of Environmental Laws in India: Environmental (Protection) Act 1986, Biological Act, 2002, National Green Tribunal Act, 2010, Coastal Regulation Zone Notification, 2011

Unit 3 (6 Hours)

- 3.1 A study of the eco-friendly initiatives on campus
- 3.2 A critical review of an environmental documentary film
- 3.3 Ecofeminism and the contributions of Indian Women Environmentalists
- 3.4 The highlights of Environmental Encyclical-*Laudato si*-On Care for our Common Home
- 3.5 Environmental Calendar

BOOK FOR STUDY

Bharucha, Erach. *Textbook of Environmental Studies for Undergraduate Courses*, (2nd ed.) Universities Press, 2013.

BOOKS FOR REFERENCE

Bhattacharya, K.S. Arunima Sharma, *Comprehensive Environmental Studies* Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

Saha, T.K., *Ecology and Environmental Biology* Books and Allied (P) Ltd., Kolkata 2016.

Sharma, J.P. *Environmental Studies (for undergraduate classes)* 3rd edition, University Science Press, 2016.

JOURNALS

Journal of Environmental Studies and Sciences
Journal of Environmental Studies

WEB RESOURCES

www.enn.com
www.nationalgeographic.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: **Total Marks: 25** **Duration: 60 minutes**
Section A-10 x 1 = 10 Marks (All questions to be answered) Multiple Choice Questions
Section B - 3 x 5 = 15 Marks (3 out of 6 to be answered in 150 words each)

Other Component: **Total Marks: 25**
Any **one** of the following for 25 marks
Quiz/Scrap Book/Assignment / Poster Making/Case Study/Project/Survey/Model-Making

No End Semester Examination

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.S.W/ B.B.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023 - 2024)

LIFE SKILLS: PERSONAL AND SOCIAL

CODE:23TT/SS/PS13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To enable students to understand the working of Indian Governance and laws
- To empower students as citizens by teaching them how to use the RTI, the PIL and the FIR
- To provide students an insight into the strengths and virtues essential to improve wellbeing
- To bring about awareness of societal dynamics
- To create awareness, impart knowledge and hone skills necessary to make sound financial decisions

COURSE LEARNING OUTCOMES

On successful completion of this course, students will be able to

- demonstrate knowledge of the working of the government
- file RTIs, PILs and FIRs
- improve their quality of life
- exhibit social consciousness
- exhibit prudent behaviour in managing personal finance

Unit 1 (13 Hours)

Legal Literacy

- 1.1 Structure of Government- Central and State, Urban and Rural
- 1.2 Laws pertaining to Women (CEDAW) and Children (POCSO)
- 1.3 Right to Information Act 2005, drafting and filing an RTI
- 1.4 Introduction to PIL, Landmark PIL cases -Vishaka Vs. State of Rajasthan, Hussainara Khatoon Vs. State of Bihar, MC Mehta Vs. Union of India
- 1.5 Importance of FIR and lodging an FIR

Unit 2 (13 Hours)

2.1 Understanding Self

- 2.1.1 Psychological wellbeing - meaning, components and barriers
- 2.1.2 Gratitude- meaning, nature and expression
- 2.1.3 Resilience- meaning, nature, benefits and simple techniques for building resilience.

2.2 Understanding Society

- 2.2.1 Concepts of class, caste, gender, disability, race, culture, religion, ethnicity, context and language
- 2.2.2 Importance of societal analysis
- 2.2.3 Social indicators of development – HDI, GDI, Poverty Index, Hunger Index
- 2.2.4 Issues and challenges for social change in India

Unit 3

(13 Hours)

Personal Financial Planning

- 3.1 Meaning, Need and Importance of Personal Financial Planning
- 3.2 Core concepts in Financial Planning – Budget, Savings and Investment
- 3.3 Converting non-essential expenditure into Savings and Investment
 - 3.3.1 Forms of Savings – Deposits, Insurance
 - 3.3.2 Types of Investments – Securities, Real Estate and Gold
- 3.4 Digital transformation in Finance
 - 3.4.1 De-Mat Account
 - 3.4.2 Net Banking and Mobile Banking

BOOKS FOR REFERENCE

Agarwal, R.C. Constitutional Development and National Movement of India. New Delhi: S. Chand, 1988.

Ahuja Ram. Social Problems in India. Rawat Publications. 3rd Edition, 2014

Allan, R. Modern Politics and Government. New York: Palgrave MacMillan, 2000.

Baumgardner, S., & Crothers, M. Positive Psychology. Chennai: Pearson. 1st Edition, 2015.

Grenville-Cleave, B. *Positive Psychology a Practical Guide*. United Kingdom: Icon Books Ltd, 2012.

Pandey, J.N. Constitutional Law of India. Allahabad: Central Law Agency, 2014.

Weiner, M. The Indian Paradox. New Delhi: Sage, 1989.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components
Task based classroom activities
Case studies
Group Discussions
Group Presentation
Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

FRONT OFFICE MANAGEMENT

CODE: 23TT/MC/FM24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the functions of the front office.
- To explain tariff structures.
- To teach effective communication for the front office.
- To help students understand front office responsibilities towards guests.
- To become familiar with audit, accounts, and security management.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	list out the roles and functions of the people at the front office.	K1
CO2	use front office protocol effectively.	K2
CO3	distinguish the various roles performed at the front office during different shifts.	K3
CO4	examine the cashiers report and night auditing.	K4
CO5	evaluate plans for crisis situations in a hotel.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition- Lobby- Reception counter- Help Desk 1.2 Functions of Front Office – Front office operations 1.3 Responsibilities and Importance of Front Office - Check-in and Check-out procedure	K1-K4 K1-K4 K1-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Tariff Structure and Communication 2.1 Tariff Fixation-Tour group rates- wholesale rates 2.2 Seasonal rates -Extra Bed rates- Rooms Selling Techniques – Establishing room rates 2.3 Front Office Communication –Front Office Security - Importance - Effectiveness	K1-K4 K1-K5 K1-K5	10	CO1-5
3	Guest Handling 3.1 Guest Cycle- Reservation – registration- Guest relations 3.2 Group Reservation - Types - Receiving Guests 3.3 Bell desk functions – Message Handling – Billing - Change of Room – Car parking – Room key control – locking system	K1-K4 K1-K4 K1-K4	15	CO1-5
4	Audit and Accounts 4.1 Basics of keeping Accounts – Ledger – Cash and Credit 4.2 Cash Report - Billing 4.3 Night Auditing – Payments - Foreign exchange regulations – Travellers Cheque	K1-K4 K1-K5 K1-K5	15	CO1-5
5	Security Management 5.1 Types of Security – Management Techniques 5.2 Fire accidents – Break-in security – Bomb Threats 5.3 Crisis Management – Man - made disasters – Natural disasters	K1-K5 K1-K5 K1-K5	10	CO1-5

BOOKS FOR STUDY

Kotler, Philip, and Kevin Lane Keller. *Marketing Management*. Pearson Education, 2006.
Bhatnagar, S.K. *Front Office Management*. Frank Bros., 2005.

BOOKS FOR REFERENCE

Bhatnagar, S.K. *Front office Management*. Frank Bros., 2002.
Negi, Jagmohan. *Principles of Management*. Kanishka Publishing, 2004.
Bright, David S. *Principles of Management*. OpenStax, 2019.
Bhatia, A.K. *Tourism Development*. Sterling, 2011.
D’Souza, Mario. *Tourism Development and Management*. Mangal Deep, 2002.

JOURNALS

Journal of Business, University of Chicago Booth School of Business, University of Chicago Press.

WEB SOURCES

www.wileyindia.com › Hotel Management
www.alhea.com/Front+Office+Management
ihmbbs.org/upload/Front%20Office%20Management.pdf

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/FM24												
	Course Title: Front Office Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	3	2	2	2	2	1	1	2	2	2
CO 2	1	1	3	3	3	1	1	2	2	1	3	2	3
CO 3	2	3	2	3	2	2	2	2	3	3	3	2	2
CO 4	2	3	3	1	3	2	1	1	3	1	3	3	2
CO 5	3	3	3	2	2	2	2	2	1	2	3	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

HISTORY OF INDIA I (UPTO THE 17TH CENTURY)

CODE: 23TT/MC/IH24

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand India's historical legacy.
- To help students learn about ancient and medieval India states.
- To develop understanding of changes in Indian society over time.
- To study the impact of the administrative and economic experiments from the past on society and culture.
- To enable students to understand the foundation of the Islamic and Mughal Rule in India.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	list out individuals and places associated with Indian history.	K1
CO2	explain aspects of Indian society and culture.	K2
CO3	construct the timeline of ancient and medieval Indian history.	K3
CO4	analyse issues related to history and heritage.	K4
CO5	evaluate the origin, growth, and downfall of the various kingdoms and empires of India.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Sources for Study - Stone Ages 1.2 Indus Valley Civilization: Discovery, Salient Features and Decline 1.3 Early Vedic, Later Vedic, and Post Vedic Period – The 16 Mahajanapadas.	K1-K5 K1-K5 K1-K5	15	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Greek Invasion and Kingdoms of Northern India 2.1 Foreign Invasions: Persian conquest- Alexander's Invasion 2.2 Mauryan and Post-Mauryan Period – Indo-Greeks, Sungas and Kushanas. 2.3 Gupta and Post-Gupta Period- Political Conquest and Expansion- Socio-economic, Administrative and Cultural Achievements.	K1-K5 K1-K5 K1-K5	12	CO1-5
3	History of Tamil Nadu 3.1 The Sangam Age- Social, Economic, and Political Conditions. 3.2 Later Kingdoms of Tamil Nadu- Pallavas- Imperial Cholas- Pandyas. 3.3 Vijayanagara Empire- The Age of the Nayaks- Madurai Thanjavur and Gingi	K1-K5 K1-K5 K1-K5	13	CO1-5
4	Delhi Sultanate 4.1 Arab Conquest of Sind - Establishment of Delhi Sultanate – Slave Dynasty 4.2 Khiljis- Tughlaqs- Sayyids and Lodis 4.3 Disintegration of the Sultanate	K1-K5 K1-K5 K1-K5	13	CO1-5
5	The Mughals 5.1 Political Sketch of Mughals - Babur, Humayun, Akbar, Jehangir, Shah Jahan, Aurangzeb and Sur interregnum 5.2 Mughal Administration - Society- Economy- Foreign policy 5.3 Causes for the Downfall of the Mughals	K1-K5 K1-K5 K1-K5	12	CO1-5

**** *one-day trip to Kanchipuram/Mamallapuram*****

BOOKS FOR STUDY

Sharma, R.S. *India's Ancient Past*. Oxford University Press, 2018.

Sastri, K.A.N. *History of South India*. Oxford University Press, 2002.

Dahiya, Poonam Dalal. *Ancient and Medieval India*. Kolkata: McGraw Hill Education, 2017
 Khurana, K.L. *Medieval India (1000-1761 A.D.)*. LNA Educational, 2017.

BOOKS FOR REFERENCE

Majumdar, R. C. *Ancient India*. Motilal Banarsidass, 2017.

Singh, U. *A History of Ancient and Early Medieval India*. Pearsons, 2009.

C. Minakshi. *Administration and Social Life under the Pallavas*. University of Madras, 1938.

Shastri, K.S. Ramaswamy. *The Tamils: The People, Their History and Culture* (in five volumes). Cosmo Publications, 2002.

Chandra, S. *Essays on Medieval Indian History*. Oxford University, 2003.

JOURNALS

Indian Historical Review, ICHR, New Delhi.

Journal of History and Social Sciences, New Delhi.

Journal of Indian History and Culture - CPR Foundation.

WEB RESOURCES

www.culturalindia.net

www.indianheritage.org

www.internetarchive.org

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/IH24												
	Course Title: History of India I (upto the 17th Century)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	3	1	1	1	1	1	1	2	2	2
CO 2	1	1	2	3	3	1	1	1	2	1	3	3	3
CO 3	2	2	2	2	2	1	2	1	2	3	2	2	2
CO 4	2	3	3	3	3	1	2	2	3	1	2	3	2
CO 5	3	3	3	2	2	2	1	1	1	2	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

INTERNATIONAL TOURISM GEOGRAPHY

CODE: 23TT/AC/IG25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to explore the basic components of world geography.
- To gain knowledge of geography and physiography.
- To understand geographical linkages.
- To make the students familiar with the various countries and their capitals.
- To have a better understanding of the major attractions across continents.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	label places of global tourist significance.	K1
CO2	explain geographical linkages.	K2
CO3	construct travel itineraries.	K3
CO4	compare international tourist attraction in different locations.	K4
CO5	assess the tourist attractions in a destination.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	Asia 1.1 Location and situation, Physiography of Asia 1.2 Main countries and capitals 1.3 Main tourist attractions of Malaysia, Singapore, Thailand	K1-K4 K1-K5 K1-K5	10	CO1-5

UNIT	CONTENT	CL	HRS	CO
2	Africa 2.1 Location and situation- Physiography of Africa 2.2 Main countries and capitals 2.3 Main tourist attractions of South Africa, Egypt.	K1-K4 K1-K5 K1-K5	15	CO1-5
3	North and South America 3.1 Location and situation of North & South America, physiography of North America and South America 3.2 Main countries and capitals 3.3 Main tourist attractions of USA & Brazil	K1-K4 K1-K4 K1-K4	10	CO1-5
4	Europe 4.1 Location and situation, Physiography of Europe 4.2 Main countries and capitals 4.3 Main tourist attractions of France, United Kingdom, Switzerland	K1-K4 K1-K5 K1-K5	15	CO1-5
5	Australia 5.1 Location and situation, Physiography of Australia 5.2 Main countries and capitals 5.3 Main tourist attractions of Australia and New Zealand.	K1-K5 K1-K5 K1-K5	15	CO1-5

BOOKS FOR STUDY

Adam, S., Ganeri, A. & Kay, A. *Geography of the World*. D K Publishing, 2003.
 Badawi, Cherine. *Footprint Egypt, Footprint Travel Guides*. 4th ed., Footprint Handbooks, 2004.

BOOKS FOR REFERENCE

Bukhari, A.Z. *Encyclopaedia of Geography of Tourism*. Anmol Publication, 2005.
 Garg, Deepa. *Geography of Tourism*. Mohit Publications, 2009.
 Hall, Michael C. *Tourism in South and South East Asia: Issues and Cases*. Routledge Publication, 2000.
 Hussain, M. *Indian and World Geography*. Tata McGraw Hill Education, 2022.
 Khullar, D.R. *Geography of India*. Kalyani Publications, 2011.

JOURNALS

TG journal, Taylor & Francis Online
 New Research Paradigms in Tourism Geography, Routledge.

WEB RESOURCES

www.tourismgeography.com/
<https://www.geolounge.com/tourism-geography/>

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/AC/IG25												
	Course Title: International Tourism Geography												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	1	1	1	2	3	1	3	1	2
CO 2	2	1	3	3	2	1	1	1	3	1	3	2	3
CO 3	2	3	1	3	1	3	1	1	3	1	3	2	3
CO 4	3	2	3	1	3	3	2	2	3	2	3	1	3
CO 5	3	3	3	3	2	3	1	2	3	1	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

HISTORY OF INDIA II (From the 17th to 20th Century)

CODE: 23TT/MC/ HI34

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To teach students about the advent of Europeans and the establishment of colonial rule.
- To enable students to explain the circumstances that led to the rise of nationalism.
- To identify persons, places, and events connected with the early national movements.
- To analyse the policies and strategies of the British.
- To help students understand the causes and the course of the national movement.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	describe the events leading to the advent of the Europeans.	K1
CO2	demonstrate their knowledge of significant personalities, events, and pivotal moments in modern Indian history.	K2
CO3	identify the factors that contributed to rise of nationalism.	K3
CO4	analyse the different strands of the early nationalist movements in India.	K4
CO5	assess the impacts of Gandhian movements on Indian Independence.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Advent of the Europeans			
	1.1 Portuguese, Dutch, English and French	K1-K5		
	1.2 Conquest and Consolidation of the Company's Rule in India- Subsidiary Alliance- Policies of Hastings and Policies of Dalhousie	K1-K5	15	1-5
	1.3 East India Company's Policies in India- Revenue Policy- Educational Policy- Agricultural and Industrial Policy	K1-K5		

UNIT	CONTENT	CL	HRS	CO
2	The Rise of Nationalism 2.1 Causes, Nature, Course and Impact of the Revolt of 1857 - Queen's Proclamation 1858 2.2 Reform and Revival Movements 2.3 Causes for the Rise of Nationalism	K1-K5 K1-K5 K1-K5	10	1-5
3	Early National movements 3.1 Freedom Struggle in Tamil Nadu: The Poligar Wars, Vellore Mutiny 3.2 Foundation of the Indian National Congress - Early Nationalists and Militant Nationalists 3.3 Revolutionaries - The Left Wing - Socialists and Communists	K1-K5 K1-K5 K1-K5	15	1-5
4	Gandhian Era 4.1 Gandhian Era- Non-Co-operation Movement 4.2 Civil Disobedience Movement - Rowlatt Satyagraha – Salt Satyagraha 4.3 Quit India Movement	K1-K5 K1-K5 K1-K5	15	1-5
5	Route to Independence 5.1 Negotiations for Independence and Partition 5.2 C.R. Plan, Wavell Plan, Cabinet Mission Plans and Mountbatten Plan 5.3 Events leading to Partition – Indian Independence act of 1947	K1-K5 K1-K5 K1-K5	10	1-5

**** one day field trip to Vellore fort****

BOOKS FOR STUDY

Barrow, Ian J. *The East India Company, 1600–1858: A Short History with Documents*. Hackett Publishing Company, 2017.

Dube, I.B. *A History of Modern India*. Cambridge University, 2014.

Sarkar, S. *Modern India 1885-1947*. Macmillan, 2001 (Reprint Edition).

BOOKS FOR REFERENCE

Bandhopadyaya, S. *Plassey to Partition*. Orient Blackswan Publication, 2001.

Grover, B.L., and S. Grover. *A New Look on Modern Indian History: From 1707 to the Present Day*. S. Chand, New Edition 2012.

Peers, Douglas M. *India under Colonial Rule: 1700-1885*. Routledge publishers, 2013.

Tharoor, Shashi. *An Era of Darkness: The British Empire in India*. Aleph Book Company, 2016.

Guha, R. *Makers of Modern India*. Penguin, 2010.

JOURNALS

Comparative Studies in Society and History, Society for the Comparative Study of Society and History.

The Indian Economic and Social History Review, Sage Publications.

Journal of Indian History and Culture, CPR Foundation.

WEB RESOURCES

www.britannica.com/EBchecked/topic/285516/history-of-India www.victorianweb.org

<http://www.colorado.edu/history/chester/ModIndPrimary.htm>

<http://www.gandhiserve.org/e/cwm/cwm.htm>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/HI34												
	Course Title: History of India II (from the 17th to 20th Century)												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	3	1	1	1	1	1	1	2	2	2
CO 2	1	1	2	3	3	1	1	1	2	1	3	3	3
CO 3	2	2	2	2	3	1	3	1	2	3	2	2	3
CO 4	2	3	3	3	3	1	3	2	3	1	2	3	3
CO 5	3	3	3	2	2	2	1	1	1	2	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE –TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

HOSPITALITY MANAGEMENT

CODE: 23TT/MC/HM33

CREDITS: 3

L T P:3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To learn about the tangible and intangible aspects of the hospitality industry.
- To help students understand the various functional units within the hospitality business.
- To understand the grading system within the hospitality sector.
- To develop skills required for the hospitality industry.
- To understand the latest IT developments relevant to the industry.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	describe the characteristics of the hospitality industry.	K1
CO2	demonstrate knowledge of various roles involved in the industry.	K2
CO3	identify different types of star hotels and grading systems.	K3
CO4	assess the skills and traits needed in the hospitality sector.	K4
CO5	evaluate the different operations in hotels.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition of Hospitality- Historical evolution of hospitality management. 1.2 Hotel Chains in India: ITC Welcome, Marriot, Ashok, Le Meridien, Taj, Oberoi, Sheraton 1.3 Tangible and Intangible nature of hospitality industry	K1-K4 K1-K5 K1-K5	10	1-5

UNIT	CONTENT	CL	HRS	CO
2	Hotels- Functions and Organisational structure 2.1 Front Office- Operations, Duties and organisational chart 2.2 Housekeeping- Operations, Duties and organisational chart 2.3 Food and beverage - Operations, Duties and organisational chart	K1-K4 K1-K5 K1-K5	10	1-5
3	Accommodation- grading system and types 3.1 Categorisation of Hotels - Star rating system 3.2 Plan of Rooms - European, Continental, American 3.3 Types of Accommodation - Motels, Dormitories, Youth Hostels, Travel bungalows, home Stays, paying guest accommodation, resorts	K1-K4 K1-K4 K1-K4	12	1-5
4	Guest Relationship Management 4.1 Skills and Personality traits of hospitality staff 4.2 Complaint handling emergencies - theft, strike, misconduct, death 4.3 Property Management System in hospitality industry	K1-K4 K1-K5 K1-K5	10	1-5
5	Trends in Hospitality Industry 5.1 Laws pertaining to hospitality 5.2 Hospitality organisations - FHRAI, (IH&RA) 5.3 Latest development in Information Technology in Hospitality industry	K4-K5 K4-K5 K4-K5	10	1-5

BOOKS FOR STUDY

Gupta, Rajat, et al. *Hospitality and Tourism*. Vikas Publishing House, 2015.
Kotler, Philip. *Hospitality Marketing and Management*. Pearson Education, 2016.

BOOKS FOR REFERENCE

Bhatnagar, S.K. *Front office Management*. Frank Bros, 2002.
Reynolds, Denis, et al. *Introduction to Hospitality Management*. Wiley, 2021.
Sampson, Eli. *Hospitality Management: An Introduction*. EdTech, 2018.
Bhatia, A.K. *Tourism Development*. Sterling Publishers Pvt.Ltd, 2011.
D'Souza, Mario. *Tourism Development and Management*. Mangal Deep, 2002.

JOURNALS

OMICS International Journal of Hotel Management, OMICS International Open Access.
International Journal of Hospitality Management, Science Direct Open Access.

WEB SOURCES

www.wileyindia.com › Hotel Management

www.alhea.com/Front+Office+Management

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/HM33												
	Course Title: Hospitality Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	2	2	2	3	2	3	2	3
CO 2	3	2	3	3	3	2	2	2	3	2	3	3	3
CO 3	3	3	3	2	3	1	1	1	3	1	3	2	3
CO 4	3	2	3	3	3	1	2	2	3	1	3	1	2
CO 5	3	2	3	3	2	2	3	2	3	1	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

HUMAN RESOURCE MANAGEMENT

CODE: 23TT/AC/RM35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students understand the functions of Human Resource Management.
- To understand the professional and personal skills needed in HRM.
- To learn about various retention plans and strategies.
- To learn about the need for training and the steps involved in training programmes.
- To explain employee assessment systems and appraisal methods.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	explain the tasks related to human resource management.	K1
CO2	describe the skills necessary for success as a professional human resource manager.	K2
CO3	demonstrate knowledge of the process of recruitment and selection.	K3
CO4	analyse possible causes for challenges in retention, training, and development.	K4
CO5	evaluate training programmes for new recruits and capacity-building programmes for employees.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Human Resource Management 1.1 Human Resource Management and its role 1.2 Skills needed for HRM 1.3 HRM - Issues and challenges	K1-K4 K1-K5 K1-K5	15	1-5
2	Recruitment and selection 2.1 Recruitment strategy and processes 2.2 Job analysis and job descriptions 2.3 Selection process- interview and testing	K1-K4 K1-K5 K1-K5	15	1-5
3	Compensation and Retention 3.1 Goals of compensation - compensation package - types of pay systems 3.2 Retention and motivation - costs of turnover 3.3 Retention plans and strategies	K1-K4 K1-K4 K1-K4	10	1-5
4	Training and Development 4.1 Steps of training 4.2 Types of training 4.3 Training delivery and designing a training programme	K1-K4 K1-K5 K1-K5	15	1-5
5	Employee Performance and Assessment 5.1 Performance and discipline issues- employee rights 5.2 Employee assessment systems and appraisal methods 5.3 Safety and health at work	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Armstrong Michael. *A Handbook of Human Resource Management Practice*. 10th ed., Kogan Page, 2006.

Murton, Adrian, et al. *Unlocking Human Resource Management*. Hodder Education, 2010.

BOOKS FOR REFERENCE

Madhukar, Manoj. *Human Resource Management for Tourism*. Rajat Publications, 2000.

Sharma, V.K., *Human Resource Management*. Viva Books, 2007.

Rizvi, Ashraf. *Resumés and Interviews*. Tata McGraw Hill, 2008.

Srivastava M.P. *Human Resource Planning*. Manak Publications, 1997.

Hendry, Chris. *Human Resource Management*. Routledge, 2012.

JOURNALS

Indian Management, Journal of the All-India Management Association

Abhigyan: Management Journal from FORE, Foundation for Organization Research and Excellence.

WEB SOURCES

Open Textbooks for Hong Kong – Human Resource Management, The Open University of Hong Kong (Available under Creative Commons/Share Alike 4.0 International License
http://www.opentextbooks.org.hk/system/files/export/32/32088/pdf/Human_Resource_Management_32088.pdf)

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/AC/RM35												
	Course Title: Human Resource Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	1	1	1	1	3	1	3	3	2
CO 2	2	1	3	3	1	2	2	2	3	1	3	2	1
CO 3	2	3	3	3	1	2	3	3	3	1	3	3	3
CO 4	3	2	3	2	3	2	3	2	3	2	3	3	3
CO 5	3	3	2	3	2	3	3	3	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Soft Skills Course Offered to students of
B.A. / B.Sc. / B.Com. / B.S.W/ B.B.A Degree Programme**

SYLLABUS

(Effective from the academic year 2023 – 2024)

LIFE SKILLS: HEALTH, ENERGY AND COMPUTER BASICS

CODE:23TT/SS/HC13

CREDITS: 3

L T P: 3 0 0

TOTAL TEACHING HOURS: 39

OBJECTIVES OF THE COURSE

- To sensitise students to the fact that good health lies in nature
- To create an awareness about energy obtained from different components of food and to plan for a balanced diet
- To enable students to understand the significance of energy conservation and strategies for conserving energy
- To provide a basic knowledge of computer fundamentals and Email configuration

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- identify the importance of a few plants and their health benefits
- recognise the causes and symptoms of common disorders
- calculate food energy values and follow the Recommended Dietary Allowances (RDA) and appreciate the need for them.
- conserve energy and use it responsibly
- understand computer configuration for purchase of personal computer and E mail setting

Unit 1

(13 Hours)

Food and Health

1.1 Traditional food and their health benefits

1.1.1 **Six tastes** – Natural guide map towards proper nutrition

1.1.2 Nutritional value and significance of Navadhanya (Sesame seed, Bengal gram, Horse gram, Green gram, Paddy seeds, White beans, Wheat, black gram and Chick pea) and Greens (Vallarai, Thuthuvalai, Manathakkali, Pulichakeerai, Agathi Keerai, Murungai Keerai, Karuveppilai, Puthina and Kothamalli)

1.2 Causes, symptoms and home remedies for the following ailments

Common cold, Anaemia, Hypothyroidism, Obesity, Diabetes, Mellitus, Polycystic Ovarian Syndrome, Ulcer, Wheezing and Hypertension

Unit 2 **(13 Hours)**
Food and energy balance

- 2.1 Units of Energy, Components of Total Energy Requirement – Basal Metabolic Rate, energy requirements for (work) physical activity and Thermic effect of food
- 2.2 Factors affecting Basal Metabolic Rate and Thermic Effect of food
- 2.3 Recommended Dietary Allowances and Balanced Diet, Food Energy Values- Calculation

Unit 3 **(13 Hours)**

3.1 Energy conservation

3.1.1 Needs for Energy Conservation – Power consumption of domestic appliances – Electrical Energy Audit – Strategies for Energy Conservation - Modern lighting systems– Light emitting diode (LED), Compact fluorescent lamps (CFL), Green indicators and Inverter, Green building - Home lighting using Solar cell - Solar water heaters- Water and waste management - Biogas plant

3.1.2 Safety Practices in using electronic gadgets and electricity at home – Precautions - Shock- Use of testers to identify leakage

3.2 Computer fundamentals

3.2.1 Essentials of Purchasing a Personal Computer - Fundamentals of Networks – Local Area Network, Internet, Networking in real-time scenario- Computer Hacking – Computer Forensics Fundamentals – Cyber Laws - Secure Browsing

3.2.2 Configuring Email

Configure Email Settings – Attachments – Compression – Organizing Emails – Manage Folders - Auto Reply - Electronic Business Card - Email Filters- Manage Junk Mail - Calendar - Plan Meetings, Appointments - Scheduling Emails

3.2.3 Emerging Trends in IT - 3D Printing, Cloud Storage, Augmented Reality, Artificial Intelligence, Internet of Things (IoT)

BOOKS FOR REFERENCE

Achaya K. T. *The Illustrated Foods of India*. Oxford Publications, 2009.

Guyton, A.C. *Text Book of Medical Physiology*. (12th ed.). Philadelphia: W.B. Saunders & Co., 2011.

Joe Benton, *Computer Hacking: A Beginner's Guide to Computer Hacking, How to Hack, Internet Skills, Hacking Techniques, and More!*, Createspace Independent Pub, 2015.

John Vacca, *Computer Forensics: Computer Crime Scene Investigation*, Laxmi Publications 2015.

Pradeep Sinha, Priti Sinha, *Computer Fundamentals 6th Edition*, BPB Publications, 2003.

Srilakshmi, B. *Nutrition Science* (4th Revised Edition), New Delhi: New Age International (P) Ltd., 2014.

Suzanne Le Quesne *Nutrition: A Practical Approach*, Cornwall: Thomson, 2003.

Therapeutic Index – Siddha, 1st edition, SKM Siddha and Ayurveda, 2010.

Trevor Linsley, *Basic electrical installation work*. Newnes imprint of Elsevier 2011.

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 50

Two to three Task based components

Task based classroom activities

Case studies

Group Discussions

Group Presentation

Role play

No End Semester Examination

No CA test

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

GLOBAL CUISINES

CODE: 23TT/MC/GC44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To expose students to the varied cuisines in the international arena.
- To understand the differences between the cuisines of the world.
- To help students to make use of various tools and techniques.
- To enable students to have a better understanding of seasonal foods and menus types.
- To assess the health benefits of different cuisines.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	list out different types of cuisines and cultural practices.	K1, K2
CO2	identify diverse combinations of cuisines and specific culinary methods.	K3
CO3	compare and classify cooking tools and techniques.	K4
CO4	assess new trends, techniques and methods in international cuisines.	K5
CO5	create combinations of methods in international cuisines.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Tourism and Cuisines 1.1 Importance of Cuisines in Tourism - Gastronomy Tourism 1.2 Cuisines as a motivator for travel 1.3 Food Festivals around the World- Wild Food Festival – New Zealand, Onion Market – Switzerland, Bacon Festival – California, Dumpling Festival – Hong Kong, Pizza Fest – Italy, Vegetarian Festival – Thailand	K1-K4 K1-K5 K1-K5	13	1-5
2	Food Traditions around the World 2.1 American Cuisine - Types of Oil - Types of sauces – ingredients - Famous American dishes - Meal structure – Chinese Cuisine – Ingredients - Meal structure- famous Chinese dishes 2.2 Mexican Cuisine - Nature of Mexican cuisine - Ingredients – Meal Structure - Italian Cuisine – Ingredients – Meal structure – Kinds of Pastas – Different Italian dishes. 2.3 French Cuisine – Nature – Ingredients – Meal Structure – French brigade – Famous French Dishes – Indian Cuisine – North Indian Thali – South Indian <i>Virundhu Saapadu</i>	K1-K4 K1-K6 K1-K6	15	1-5
3	Tools and Techniques 3.1 Tools for cooking – Tools for baking – Types of spoons and knives- Modern equipment – Culinary Styles 3.2 Preparation techniques - Presentation Techniques- Indian Tradition - Ethnic procedures – Serving techniques – Buffets – Live counter Food 3.3 Grading procedures – Usage of preservatives – Classes of preservatives – International Standards	K1-K4 K1-K6 K1-K4	12	1-5

UNIT	CONTENT	CL	HRS	CO
4	Seasonality of foods, Menus and Food Trails 4.1 Bakes – Desserts – Fast foods- Soups - Sandwiches - Pickles- Seasonal fruits and vegetable - greens - dairy products 4.2 Menus – Types of Menus – A la Carte – Buffet and types – Functional Menu – Cyclic Menu 4.3 Food Trails - Nature and Scope in Tourism promotion	K1-K4 K1-K5 K1-K4	15	1-5
5	Food as medicine 5.1 Tradition of Fasting – Food Restrictions - Health benefits 5.2 Spiritual Diets – Halaal Food – Science behind food 5.3 Festivals and Special food items	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Heyman, Patricia A. *International Cooking: A Culinary Journey*. Pearson, 2016.

Steier Gabriela, and Kiran K. Patel, editors. *International Food Law and Policy*. Springer Nature, 2016.

Stevens, J. R. *International Instant Pot Cuisine: American, Chinese, French, Indian Italian and Mexican recipes*. 2017.

BOOKS FOR REFERENCE

Kong, Lily, and Vineeta Sinha, editors. *Food, Foodways and Foodscapes: Culture, Community and Consumption in Post-Colonial Singapore*. World Scientific, 2015.

Farrer, James. *The Globalisation of Asian Cuisines, Transnational Networks and Culinary Contact Zones*. Palgrave Macmillan, 2015.

Singh, Dueep J., and John Davidson. *Granma's Guide to Home Baking Tips and techniques for healthy home Baking*. JD-Biz Publishing, 2015.

Boulud, Daniel. *Braise: A Journey Through International Cuisine*. HarperCollins, 2013.

Bali, Parvinder S. *International Cuisine and Food Production Management*. Oxford, 2012.

JOURNALS

International Journal of Food Science, Open Access, Hindawi

International Journal of Food Science and Nutrition, Open Access.

WEB SOURCES

Website of the Restaurant Business Magazine

(<https://www.restaurantbusinessonline.com/>)

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50 marks	9	13

Other Components:**Total Marks: 50**

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 question	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 question	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/GC44												
	Course Title: Global Cuisines												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	2	3	1	3	1	1	1	3	1	1	2	2	2
CO 2	1	1	3	1	3	1	2	3	2	1	3	3	3
CO 3	2	2	2	3	2	1	1	2	3	2	3	2	2
CO 4	2	3	3	2	3	3	2	3	3	1	3	3	2
CO 5	3	3	3	2	2	3	3	3	1	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

INDIAN HERITAGE AND CULTURE

CODE: 23TT/MC/HC44

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide an overview of Indian culture and heritage.
- To enable students to understand the importance of heritage in tourism.
- To help students gain a better understanding of preservation and conservation techniques.
- To understand the various aspects of heritage management.
- To help students identify India's heritage in diverse fields.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	explain the natural and cultural heritage of the country.	K1
CO2	classify different tourist destinations in India based on their nature.	K2
CO3	demonstrate knowledge of various procedures of preservation and conservation in heritage management.	K3
CO4	analyse causes for the challenges of heritage conservation in tourism.	K4
CO5	effectively support the promotion and preservation of our country's heritage.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Conceptual Framework 1.1 Heritage, Culture- Meaning and Definition 1.2 Evolution of Indian Culture through the ages 1.3 Features and importance of Indian Heritage and Culture	K1-K4 K1-K5 K1-K5	15	1-5
2	Indian Natural Heritage 2.1 National Parks and Wildlife Sanctuaries in India 2.2 Hill Stations and Forest Reserves 2.3 Beaches and Islands- Beaches in Goa, Kerala, Odisha and Tamil Nadu – Andaman and Nicobar Islands and Lakshadweep	K1-K4 K1-K5 K1-K5	15	CO1-5
3	India's Intangible Heritage 3.1 Music and Dance in India- Classical and Folk 3.2 Puppetry 3.3 Traditional Games, Fairs and Festivals of India	K1-K4 K1-K4 K1-K4	13	CO1-5
4	India's Tangible Heritage 4.1 Religious and Secular Destinations - Important Tourist Circuits - UNESCO sites 4.2 Handicrafts and Handlooms 4.3 Museums and Art Galleries of India	K1-K4 K1-K5 K1-K5	12	CO1-5
5	Heritage Management 5.1 National and International Heritage Organisation- UNESCO, ASI, INTACH, ICOMOS 5.2 Criteria for selection of UNESCO World Heritage Site - UNESCO Sites in India 5.3 Preservation and Conservation of Heritage Sites.	K1-K5 K1-K5 K1-K5	10	CO1-5

**** One day trip to Mamallapuram****

BOOKS FOR STUDY

Acharya, R, *Tourism and Cultural Heritage of India*. Rosa, 1986.
Chawla, Romila. *Cultural Tourism and Development*. Sonali, 2004.

BOOKS FOR REFERENCE

Bhatia, A.K. *Tourism Development: Principles and Practices*. Sterling, 2003.
Singh, L K. *Indian Cultural Heritage Perspective for Tourism*. Isha Books, 2008.
Narayan, Shovana. *Sterling Book of Indian Classical Dance*. Sterling, 2011.
Ranjan, Aditi, Ranjan, M. P. *Handmade in India- A Geographical encyclopaedia of Indian Handicrafts*. Abbeville Press, 2009.
Thapar, Romila. *Indian Cultures as Heritage: Contemporary Pasts*. Aleph, 2018.

JOURNALS

International Journal of Tourism Research, Wiley.
Bi-annual Journal of Indian Art, Culture, Heritage and Tourism, Bharathi Women's College, Chennai.

WEB SOURCES

<http://indiaheritage.org/> <http://whc.unesco.org/>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/HC44												
	Course Title: Indian Heritage and Culture												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	1	3	3	3	2	3	3	3
CO 2	3	2	3	2	3	1	3	3	3	2	3	3	3
CO 3	3	3	3	3	3	1	3	2	2	3	3	2	3
CO 4	3	2	3	3	3	1	3	2	3	1	3	1	2
CO 5	3	2	3	3	2	1	3	3	3	1	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

PUBLIC RELATIONS FOR TOURISM

CODE: 23TT/AC/PT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the scope of Public Relations.
- To learn about the importance of corporate identity, logos, and symbols.
- To understand the principles of crisis management.
- To distinguish the avenues of communication and their impact on public relations.
- To increase knowledge of various aspects of event management in the tourism industry.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	explain the importance of public relations in tourism.	K1
CO2	describe effective crisis management practices.	K2
CO3	apply the principles of public relations to the field of tourism.	K3
CO4	compare and contrast the uses of different media in public relations.	K4
CO5	evaluate the effectiveness of different avenues of communication.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Meaning and Scope 1.2 Public Relation and Tourism 1.3 Components of PR - Organising Public Relations	K1-K4 K1-K5 K1-K5	15	1-5

2	PR In Tourism Organizations 2.1 Corporate Plan and objectives 2.2 Corporate Identity- Logos and symbols 2.3 Internal and external communication- Corporate in-house Journal	K1-K5 K1-K5 K1-K5	15	1-5
3	Crisis Management 3.1 Identifying a Crisis 3.2 Crisis Management 3.3 Disaster Management	K1-K4 K1-K4 K1-K4	15	1-5
4	PR and Media Relations 4.1 Avenues of Communication 4.2 Press Relations, Broadcast media and Internet promotion 4.3 PR and advertising	K1-K4 K1-K5 K1-K5	10	1-5
5	Event Management in Tourism 5.1 Types of Events 5.2 Organization of events 5.3 Event policy and objectives	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

French, Ylva. *Public Relations for Leisure and Tourism*. Orient Longman, 2014
Black, Sam. *Practical Public Relations*. Pittman Publishing Company, 2000

BOOKS FOR REFERENCE

Jeffkins, F. *Public Relations for Your Business*. Jaico Publications, 2004.
Chauhan, A.S. *Public Relations*. Verma Publications, 1995.
Rene, Henry A. *Marketing Public Relations*. Surjeet Publications, 2003
Teruggi, Janis, et al., *Introduction to Strategic Public Relations: Digital, Global, and Socially Responsible Communication*. Sage Publications, 2019.
McCabe, Scott. *The Routledge Handbook of Tourism Marketing*. Routledge, 2014.

JOURNAL

Public Relation Inquiry, Sage Publications.
Journal of Public Relations, CARI

WEBSITE

www.ipra.org
instituteforpr.org

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/AC/PT45												
	Course Title: Public Relations for Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	1	1	1	1	3	1	3	3	2
CO 2	2	1	3	3	1	2	2	3	3	1	3	2	1
CO 3	2	3	2	3	1	3	1	3	3	1	3	3	3
CO 4	3	2	3	3	3	3	2	3	3	2	3	3	1
CO 5	3	1	3	3	2	3	2	2	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

EMERGING TRENDS IN TOURISM

CODE: 23TT/MC/ET54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To make students familiar with special interest tourism.
- To understand the economic and social importance of special interest tourism.
- To identify practices which promote sustainable and responsible tourism.
- To increase knowledge of trends in tourism related to the promotion of nature, culture and education.
- To evaluate the technical issues in modern tourism.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	identify various kinds of niche tourism.	K1
CO2	describe new trends in the tourism industry.	K2
CO3	demonstrate knowledge of the impacts of emerging trends.	K3
CO4	assess the challenges associated with reservation procedures and the technical risks.	K4
CO5	evaluate the sustainability of practices in the tourism sector.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Special Interest Tourism - Niche market 1.2 Classification - nature, culture, education and hobbies 1.3 Factors influencing the growth of Special Interest Tourism	K1-K4 K1-K5 K1-K5	10	1-5

UNIT	CONTENT	CL	HRS	CO
2	Impacts of Special Interest Tourism 2.1 Environmental Impacts- Trampling- Poaching- Displacements- Soil Erosion – Pollution – depletion of resources 2.2 Economic impacts – Foreign exchange- inflation – customs – infrastructural development 2.3 Social and cultural impacts – Influence of foreign culture- fashion- food.	K1-K4 K1-K5 K1-K5	10	1-5
3	Nature based Emerging Trends in Tourism 3.1 Rural Tourism - Agri Tourism - Heritage Tourism - Tribal Tourism 3.2 EcoTourism - Sustainable Tourism - Responsible Tourism 3.3 Geo Tourism - Leisure Tourism - Educational Tourism	K1-K4 K1-K4 K1-K4	15	1-5
4	Emerging Trends in Tourism 4.1 Medical Tourism - Wellness Tourism 4.2 Hydel Tourism - Dark Tourism - Fashion Tourism – Gastronomy Tourism 4.3 MICE Tourism - Space Tourism – Virtual Tourism	K1-K4 K1-K5 K1-K5	15	1-5
5	Challenges and Issues 5.1 Reservations- Technical problems- Double bookings - Double payment - Payment failures 5.2 Maintenance and Sustainability of Tourist destinations- Post Pandemic Challenges 5.3 Upgradation of latest facilities and amenities in tourist destinations	K1-K5 K1-K5 K1-K5	15	1-5

**** *Three days trip – Inter-state*****

BOOKS FOR STUDY

Camilleri, Anthony Mark. *Travel Marketing, Tourism Economics and the Airline Product: An Introduction to Theory and Practice*. Springer Publications, 2018.

Vasudevan, Venu., Vijayakumar, B., Saroop Roy, B.R. *An Introduction to the Business of Tourism*. Sage Publications, 2017.

BOOKS FOR REFERENCE

Sharma, Kshitiz. *Introduction to Tourism Management*. McGraw Hill Education, 2017.

Walker, John R. *Introduction to Hospitality*. Pearson, 2017.

Kumar, Chiranjib., Choudhary, Aditi. *Introduction to Tourism & Hospitality*. CreateSpace Independent Publishing Platform, 2017.

Barkat, A.M.A. *Travel and Tourism Management*. Prentice Hall India Learning, 2015.

Page, Stephen J.. *Tourism Management*. Routledge, 2015.

JOURNALS

International Journal of Tourism Research, Wiley.

ASEAN Journal on Hospitality and Tourism, Tourism Research and Development Centre.

WEB RESOURCES

www.worldleisure.org

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/ET54												
	Course Title: Emerging Trends in Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	3	1	3	2	2	1	1	2	2	2
CO 2	1	1	3	2	3	3	2	2	2	1	3	3	3
CO 3	2	2	2	3	2	1	1	1	3	2	3	2	2
CO 4	2	3	3	3	3	3	2	3	3	1	3	3	2
CO 5	3	2	3	2	2	3	3	2	1	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

ART AND ARCHITECTURE OF INDIA

CODE: 23TT/MC/AA54

CREDITS: 4

LTP: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the origin and growth of Indian art and architecture.
- To explain the styles of Indian temple architecture.
- To identify important structures related to archaeo-tourism and heritage tourism.
- To understand the significance of the architectural monuments and the need for preservation.
- To increase understanding and appreciation of Indian sculptures and paintings.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	describe the architectural wonders of India.	K1
CO2	classify temples and structures based on the architectural design and styles.	K2
CO3	identify ways of promoting and preserving the art and architecture of India.	K3
CO4	analyse the historical and cultural significance of various architectural structures constructed in colonial India.	K4
CO5	critically evaluate Indian architecture and painting.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Indian Art and Architecture 1.1 Origin and Evolution of Architecture in India 1.2 Indus Art and Architecture 1.3 Buddhist – Mauryan - Gandhara and Mathura schools	K1-K4 K1-K5 K1-K5	15	1-5

UNIT	CONTENT	CL	HRS	CO
2	Temple Architecture 2.1 Styles of Temple Architecture – Nagara, Dravida and Vesara 2.2 Temples of North India – Guptas, Chandellas, Solankis 2.3 Temples of South India – Pallavas, Cholas, Pandyas, Rastrakutas, Hoysalas, Chalukyas and Vijayanagara empire	K1-K4 K1-K5 K1-K5	15	1-5
3	Medieval Architecture 3.1 Sultanate architecture 3.2 Mughal architecture 3.3 Indo-Saracenic and Rajput architecture	K1-K4 K1-K4 K1-K4	15	1-5
4	Modern Architecture 4.1 Portuguese - Goa, Danish -Tranquebar 4.2 British – Mumbai, Calcutta and Madras 4.3 French – Pondicherry	K1-K4 K1-K5 K1-K5	10	1-5
5	Paintings in India 5.1 Mural Paintings 5.2 Miniature Paintings 5.3 Modern Paintings	K1-K5 K1-K5 K1-K5	10	1-5

**** Daytrips to places with heritage monuments****

BOOKS FOR STUDY

Brown, Percy. *Indian Architecture*. D.B. Taraporevala, 2003.
 Tomory, Edith. *A History of Fine Arts in India and the West*. Orient BlackSwan, 2004.

BOOKS FOR REFERENCE

Anantharaman, Ambujam. *Temples of South India*. East West Books, 2006.
 Deva, Krishna. *Temples of North India*. National Book Trust, 1997.
 Madhavan, Chitra. *Vishnu Temples of South India: Tamil Nadu*. AlphaLand Books, 2007.
 Kumar, S.A. Raj. *Essays on Indian Architecture*. Discovery, 2003.
 Reddy, V.V. Subba. *Temples of South India*. Gyan, 2009.

JOURNALS

Indian Archaeology - A Review (Annual Publication on Archaeological Reports).
 Gandharan Studies, Institute of Archaeology and Social Anthropology, University of Peshawar.
 Journal of the Royal Asiatic Society, Cambridge University Press.

WEB RESOURCES

<http://indiaheritage.org/>
www.asi.nic.in

PATTERN OF ASSESSMENT**Continuous Assessment Test: Total Marks: 50****Duration: 90 minutes**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination:****Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/AA54												
	Course Title: Art and Architecture of India												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	2	1	3	2	3	2	3	3	3
CO 2	3	2	3	3	2	1	3	3	3	2	3	3	3
CO 3	3	3	3	3	1	2	1	1	3	3	3	2	3
CO 4	3	2	1	2	3	1	1	2	3	1	3	1	2
CO 5	3	2	3	3	2	1	2	3	3	1	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

EVENT MANAGEMENT

CODE: 23TT/MC/EM54

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To know the possibilities and challenges of event management as a career.
- To understand strategies necessary for planning successful events.
- To understand the use market research to organise successful events.
- To help students discover the best use of media promotional tools.
- To understand how to prepare budgets and get feedback for events.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	identify and explain different kinds of events.	K1, K2
CO2	demonstrate knowledge of strategies required to plan successful events	K3
CO3	compare the effectiveness of different kinds of media in communication about events.	K4
CO4	evaluate the success of events with feedback.	K5
CO5	construct budget and cost sheets required for an event	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Introduction to Event Management 1.2 Meaning, scope and historical perspective 1.3 Size and types of Events - Code of Ethics	K1-K4 K1-K5 K1-K5	15	1-5

UNIT	CONTENT	CL	HRS	CO
2	Preparation for an event 2.1 Conducting market research, establishing viability, capacities, costs and facilities, plans, timescales and contracts. 2.2 Clarity - SWOT analysis 2.3 Media coverage, advertising, budget, special considerations and evaluating success.	K1-K6 K1-K6 K1-K5	15	1-5
3	Organizing the event 3.1 Purpose, venue, timing, Guest of Honor guest list and invitations 3.2 Food and Beverages - Venue arrangements and decorations 3.3 Amenities – Microphones and Speakers - Media - Photographers - Podium	K1-K6 K1-K4 K1-K4	15	1-5
4	Media and Promotional Tools 4.1 Media invitations- photos - calls - press releases – Television and radio broadcasts 4.2 Flyers, posters, invitations, website, newsletters, blogs, tweets 4.3 PR and advertising- Media Coverage	K1-K4 K1-K5 K1-K5	10	1-5
5	Finance Planning 5.1 Budget and planning- packages, offers and discounts 5.2 Return on Investment 5.3 Attendance and Feedback	K1-K6 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Shone, Anton, et al. *Successful Event Management: A Practical Handbook*. 2nd ed., Cengage Learning EMEA, 2004.

Black, Sam. *Practical Public Relations*. Pittman Publishing Company, 2000

BOOKS FOR REFERENCE

Wagen, Lynn Van Der & Carlos R Brenda. *Event Management*. Pearson, 2004.

Sinha P.K., *Computer Fundamentals*. BPB Publications, 2004.

Reddy, Vijay, and Muvva Bhaskar. *Fundamentals Of Computers and Information Technology*. VDM Verlag, 2010.

Maheshwari, S.N. *Fundamentals of Cost Accounting Text Book for Professional Competence Exam*. Sultan Chand, 2011.

JOURNAL

Event Management, Cognizant Communication Corporation.

Event Management, Ingenta Connect.

WEBSITE

hmhub.in

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50 marks	9	13

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 questions	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 questions	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/EM54												
	Course Title: Event Management												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	3	1	1	1	1	3	1	3	3	2
CO 2	2	1	3	2	1	2	2	2	3	2	3	2	2
CO 3	2	3	2	3	1	2	3	3	2	2	3	3	3
CO 4	3	2	3	2	3	2	2	2	2	2	2	2	3
CO 5	3	3	2	3	2	3	3	3	2	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

TICKETING AND FARE CONSTRUCTION

CODE: 23TT/MC/TF53

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To help students understand the history of aviation and the types of aircrafts.
- To understand air ticketing procedures.
- To gain knowledge of various travel formalities.
- To explain the methods of fare construction.
- To become familiar with various travel documents.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	explain flight handling procedures and inflight services.	K1, K2
CO2	demonstrate knowledge of baggage policies and allowances for international flights	K3
CO3	differentiate types of airfares, taxes and billing and settlement plans.	K4
CO4	assess the needs for special provisions for different categories of passengers.	K5
CO5	construct different types of air fares based on IATA guidelines.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Air Transport 1.1 Air Transport - Aviation History- International Airline Codes 1.2 Types of Aircrafts 1.3 Flight handling and In-flight services	K1-K4 K1-K5 K1-K5	10	1-5

UNIT	CONTENT	CL	HRS	CO
2	Airline policies and practices 2.1 Baggage- Baggage allowance- Checked Baggage- Excess Baggage surcharge 2.2 Baggage Handling 2.3 International air transport regulations- State regulations -Five freedoms of air	K1-K4 K1-K5 K1-K5	10	1-5
3	Air fares 3.1 Basic elements of air fare- Class of Service- Fare Basis-Fare rules and Regulations 3.2 Special fares- Discounted fares- Policy regarding Children, Restricted –Disabled passengers 3.3 Taxes- Billing and Settlement Plan (BSP	K1-K6 K1-K4 K1-K4	10	1-5
4	Fare construction 4.1 Guidelines for fare construction- One Way Trip - Circle Trip- Round Trip - Around the World Trip- Open Jaw-Stop-over- Non-Stop- Direct 4.2 Mileage System 4.3 Lowest Combinations Principles	K1-K6 K1-K6 K1-K6	10	1-5
5	Travel Documents and Travel Formalities 5.1 Passport- Types- Passport Language- National Status-Limitations on Passport issue 5.2 VISA- Conditions of issue- Types- Entry and Duration of Stay 5.3 Travel Information Manual (TIM) Health Certificates. General Preventive Measures – Customs and Currency-Travel Insurance- Consequences of Negligence	K1-K5 K1-K5 K1-K5	12	1-5

BOOKS FOR STUDY

Negi Jagmohan. *Air Ticketing and Fare Construction*. Kanishka Publishing House, 2008.
IATA. *Standards and Manuals*.
(<https://www.iata.org/en/publications/manuals-standards-regulations/>)

BOOKS FOR REFERENCE

ePGPathshala. *P 03: Aviation Industry, ticketing and frontier formalities*.
(<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=Cdnwi2LUCCLzrJZ76d/o1>)
D’Souza Mario, *Tourism Development and Management*. Mangal Deep, 2002.
Kotler, Philip, Kevin Lane Keller *Marketing Management*, Pearson, 2006.

JOURNALS

Journal of Air Transport Management – Elsevier

Journal of Air Transport Management | Science Direct

WEB SOURCES

www.learntravel.co.uk/.../bt308unit24airfaresandticketing1sample.

www.iata.org › Home › Training › Subject Areas

www.amazon.in/Air-Travel-Ticketing-Fare-Construction

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50 marks	9	13

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 questions	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 questions	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/TF53												
	Course Title: Ticketing and Fare Construction												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	3	1	1	1	1	2	1	2	2	2
CO 2	3	1	3	3	3	1	2	1	2	1	3	3	3
CO 3	2	2	2	3	2	3	1	1	3	3	3	2	3
CO 4	2	3	3	1	3	1	2	1	3	1	3	3	2
CO 5	3	3	3	2	2	3	1	1	1	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**Interdisciplinary Core Course Offered by the Departments of History and Commerce to
B.A. Tourism & Travel Management**

SYLLABUS

(Effective from the academic year 2023-2024)

TOURISM MARKETING

CODE: 23ID/IC/TM55

CREDITS: 5

L T P: 5 1 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enable students to understand the principles of marketing.
- To help them to comprehend promotion strategies and pricing.
- To make students aware of the factors that affect the tourist consumer.
- To help students to understand the structure and organisation of the tourism sector.
- To enable students to comprehend the complexities of travel marketing.

COURSE LEARNING OUTCOMES

On successful completion of this course, the students will be able to

COs	DESCRIPTION	CL
CO1	Define concepts connected to marketing and tourism.	K1
CO2	Demonstrate understanding of the principles of marketing.	K2
CO3	Apply the principles of marketing to the tourism industry.	K3
CO4	Analyse the factors that affect the tourism industry.	K4
CO5	Evaluate tourism attractions and destinations.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	HRS	CO
1	Basic Principles of Tourism Marketing 1.1 Tourism Marketing - A Perception - Purpose and Constraints of Tourism Marketing 1.2 Service Characteristics of Tourism Marketing 1.3 Role and Functions of Tourism Managers	K1-K3 K4-K5 K1-K5	15	1-5
2	Marketing Mix for Tourism 2.1 Marketing Mix - variables - 7 P's 2.2 Tourism Promotion - Introduction, Need, and Kinds of Promotion 2.3 Distribution Strategy - Channel Design - Functions and Types of Channel Members	K1-K3 K1-K4 K1-K4	15	1-5

UNIT	CONTENT	CL	HRS	CO
3	Tourist Consumer Behaviour 3.1 Characteristics and Decision-Making Process 3.2 Typologies 3.3 Factors Affecting Consumer Behaviour	K1-K4 K3-K5 K3-K5	15	1-5
4	Tourism Marketing Strategies 4.1 Destination Branding 4.2 Brand Positioning 4.3 Choosing a Destination - Role of DMO	K1-K3 K1-K4 K3-K5	15	1-5
5	Tourism Market Segmentation and Pricing 5.1 Tourism Market Segmentation - Objectives, Introduction, Levels of Segmentation and Patterns 5.2 Pricing - Introduction - Factors Affecting Pricing 5.3 Methods and Strategies of Pricing	K1-K3 K3-K5 K1-K4	18	1-5

BOOKS FOR STUDY

Kotler, Philip; John Bowen, and James Makens. *Marketing for Hospitality and Tourism*. Pearson, 2014.

Dasgupta, Devashish. *Tourism Marketing*. Pearson, 2011.

Chaudhary, Manjula. *Tourism Marketing*. Oxford Higher Education. 2010.

Bhatia, A.K. *Tourism Management and Marketing*. Sterling Publishers, 1997.

Holloway, J. C. and R.Y. Plant. *Marketing for Tourism*. Pitman Publishing, 1998.

Sinha, P.C. *Tourism Management*. Anmol Publishers, 1997.

Buhalis, D., and C. Costa C., editors. *Tourism Management Dynamics*. Heinemann, 2006.

BOOKS FOR REFERENCE

Collman, M.M. *Tourism Marketing*. Van Nostrand Reinhold, 1989. Batra, G.S. and R.C.

Dangwal. *Tourism Promotion and Development: New Advances*. Deep and Deep, 2007.

Buhalis, D. and C. Costa. *Tourism Business Frontiers - Consumers, Products and Industry*. Heinemann, 2006.

Telter, David J., and R. Sharpley. *Tourism and Development in the Developing World*. Routledge, 2001.

JOURNALS

International Journal of Tourism Research, Wiley.

Tourism Management, Elsevier

Journal of Hospitality and Tourism, Sage Publication.

WEB RESOURCES

www.tourismmarketingconcepts.com

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (Cos)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23ID/IC/TM55												
	Course Title: Tourism Marketing												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	1	2	1	2	2	3	2	3	2	3
CO 2	3	2	3	3	3	2	1	2	3	2	3	3	3
CO 3	3	3	3	3	2	2	2	1	3	3	3	2	3
CO 4	3	2	3	3	3	2	2	3	3	1	3	1	2
CO 5	3	2	3	3	2	3	2	3	3	1	3	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

GLOBAL TOURISM

CODE: 23TT/MC/GM64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students know the physiography of the continents.
- To explain global tourism statistics.
- To acquire knowledge about tourist destinations in different parts of the world.
- To know the top tourist attractions in the world.
- To understand issues connected with global tourism.

COURSE LEARNING OUTCOMES

On completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	define the process and linkages responsible for the generation of tourist flows.	K1
CO2	explain the different time zones and GMT calculations.	K2
CO3	identify global issues in the tourism field and their impact.	K3
CO4	examine spatial disparities in destination management.	K4
CO5	evaluate the significance of tourist destinations in the economic development of nations.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Geography of tourism 1.1 Understanding World tourism regions 1.2 Tourism concentration (spatial) and disparities based on geography 1.3 Physiography of the continents – Countries and capitals – Time Zones	K1-K4 K1-K5 K1-K5	15	1-5
2	Tourism in Europe 2.1 UK, France, Germany 2.2 Italy, Spain, Switzerland 2.3 Scandinavian countries: Norway, Sweden, Denmark	K1-K4 K1-K4 K1-K4	15	1-5
3	Tourism in USA, Africa and Middle East 3.1 North America – 53 nations and South America – 13 states 3.2 Africa – 53 states 3.3 Middle East	K1-K4 K1-K5 K1-K5	10	1-5
4	Tourism in South Asia and South East Asia 4.1 India, Nepal, Sri Lanka (South Asia) 4.2 China, Hong Kong, Japan 4.3 Thailand, Singapore, Malaysia, Philippines	K1-K5 K1-K5 K1-K5	10	1-5
5	International tourism issues 5.1 Global tourism statistics 5.2 Major generating and receiving countries 5.3 Issues in Global tourism- sustainability, climate change, terrorism, migration	K1-K4 K1-K5 K1-K5	15	1-5

****Field trip/study tours****

BOOKS FOR STUDY

Acared, Cara. *Global Tourism*. Independence Educational, 2016.

Montenegro, Mónica. *How are Companies and Destinations "surfing the Wave" of Global Tourism?* Emerald, 2017.

BOOKS FOR REFERENCE

Becker, Elizabeth. *Overbooked: The Exploding Business of Travel and Tourism*. Simon & Schuster, 2016.

Bourdeau, Laurent, et al. *World Heritage Sites and Tourism: Global and Local Relations*. Routledge, 2016.

Douglas, P. *Tourism Today – A Geographic Analysis*. Longman, 1987.

Laws, E.C. *Tourist Destination Management – Issues, Analysis and Policies*. Routledge, 1995.

Lee, J. *Tourism Development in the Third World*. Routledge, 1988.

WEB RESOURCES

<https://www.globaltourismindia.com/>

<https://www.wttc.org/>

JOURNALS

International Journal of Tourism Research, Wiley

International Journal of Culture, Tourism and Hospitality Research, Emerald Insight.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/GM64												
	Course Title: Global Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	1	2	2	2	3	1	3	3	2
CO 2	2	1	3	3	1	1	1	1	3	2	3	2	1
CO 3	2	3	3	3	1	2	3	3	3	1	3	2	3
CO 4	3	2	3	3	3	2	3	3	3	2	3	3	3
CO 5	3	3	2	3	2	2	1	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

MEDICAL TOURISM

CODE: 23TT/MC/MT64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To know the sources and scope of Medical Tourism.
- To understand the challenges and prospects of Medical Tourism in India.
- To understand how traditional treatments are part of wellness tourism.
- To know the prominent medical centres and hospitals in India which attract medical tourists.
- To understand laws governing medical tourism.

COURSE LEARNING OUTCOMES

On completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	define the nature and scope of medical tourism.	K1
CO2	explain marketing strategies to promote medical tourism.	K2
CO3	demonstrate knowledge of laws and regulations in the field.	K3
CO4	examine the contribution of potential medical centres and hospitals in India	K4
CO5	evaluate the significance of healing therapies within the medical tourism sector.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction			
	1.1 Meaning, nature and Scope - Evolution of Medical Tourism in India	K1-K4	15	1-5
	1.2 Regulations and Legislations – UNWTO Agreements – WHO standards	K1-K5		
	1.3 Medical Information portals- Medical websites	K1-K5		

UNIT	CONTENT	CL	Hrs	CO
2	Marketing Medical Tourism 2.1 Health Care services - Medical insurance policy 2.2 Medical Travel Guide Books - Medical Research Website 2.3 Marketing Medical Tourism in India – Advertising – Public Relation – Challenges	K1-K4 K1-K5 K1-K5	10	1-5
3	Traditional Treatments 3.1 Ayurveda - benefits and treatment procedures 3.2 Homeopathy - Unani – Siddha - benefits and treatment procedures 3.3 Acupuncture – Acupressure – Rekhi – Pranic – Varma	K1-K4 K1-K4 K1-K4	15	1-5
4	Medical Centres, Hospitals and Services 4.1 Kutralam – Kotakkal - Puthur – Manavalakkalai - Sanjeevanam – Aayush 4.2 Apollo – Sankara Nethralaya – MIOT – MMM – Frontier Lifeline 4.3 Medical Tourism Services - Facilitators - service providers- Post Surgical Packages	K1-K4 K1-K5 K1-K5	15	1-5
5	Healing Therapies 5.1 Clay therapy – Spa therapy- Music therapy - Andhra fish therapy 5.2 Magnetic therapy - Mud therapy - Aromatherapy 5.3 Naturo therapy - Herbal therapy	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Sarngadharan, M., and V.S. Sunanda. *Health Tourism in India*. New Century Publications, 2009.
 Kumar, R. *Medical Tourism in India - Management and Promotion*. Deep & Deep, 2008.

BOOKS FOR REFERENCE

Bookman, R., and Zarkovic Milica. *Medical Tourism in Developing Countries*. Palgrave Macmillian, London, 2007.
 Reisman, David. *Health Tourism: Social Welfare Through International Trade*. Edward Elgar Pub, 2010.
 Robinet, Jacob. *Health Tourism and Ayurveda*. Abhijeet Publications. 2008.
 Kulkarni, Sonali. *Spa and Health Tourism*. Book Enclave Publishers, 2008
 Hancock, David. *The Complete Medical Tourist*. John Blake Publishing, 2007.

Web Sources

www.gmedicaltourism.com
 www.indiahealthcaretourism.com
 www.medicaltourism.solutions

JOURNALS

International Medical Travel Journal (IMTJ), Laing Bussain.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/MT64												
	Course Title: Medical Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	3	1	1	1	1	2	1	2	2	2
CO 2	1	1	3	3	3	1	2	1	2	1	3	3	3
CO 3	2	3	2	3	2	1	1	1	3	3	3	2	2
CO 4	2	3	2	3	3	2	2	2	3	1	3	3	2
CO 5	3	3	3	2	2	3	2	2	1	2	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

ENTREPRENEURSHIP IN TOURISM

CODE: 23TT/MC/EI64

CREDITS: 4

L T P: 4 1 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To enable students to understand the scope of entrepreneurship in tourism.
- To help students become familiar with entrepreneurship theories.
- To increase the competencies required for entrepreneurship.
- To understand the different elements of effective business plans.
- To explain the challenges associated with entrepreneurship in tourism.

COURSE LEARNING OUTCOMES

On completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	define and explain the functions of entrepreneurship.	K1, K2
CO2	compare the different entrepreneurial motivations and their role in the success of the entrepreneur.	K3
CO3	differentiate the different forms of organization of an enterprise.	K4
CO4	assess entrepreneurial ideas and entrepreneurial opportunities.	K5
CO5	construct a detailed entrepreneurial business plan.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Definition - Basics of Entrepreneurship 1.2 Evolution of the Concept - Functions of Entrepreneurship 1.3 Types of Entrepreneurs	K1-K4 K1-K5 K1-K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Theories of Entrepreneurship 2.1 Entrepreneurial motivations- Concept and Meaning 2.2 Motivational cycle - Theories of Entrepreneurial Motivation 2.3 Entrepreneurial Climate - Role of Entrepreneurship in Economic Development - Myths about Entrepreneurship	K1-K4 K1-K5 K1-K5	15	1-5
3	Entrepreneurship in Tourism Industry 3.1 Policy measures for Tourism entrepreneurship 3.2 Tourism Entrepreneurial competencies 3.3 Entrepreneurial Process - Factors affecting Entrepreneurial growth - role of women entrepreneurs in tourism industry	K1-K4 K1-K4 K1-K4	10	1-5
4	Forms of Business and Challenges in Tourism Entrepreneurship 4.1 Forms - Sole proprietorship, Partnership and corporate - Organisational structure 4.2 HR Issues in Tourism and hospitality Industry 4.3 Case studies of major Travel Agencies/Hotels on risk taking.	K1-K5 K1-K5 K1-K5	12	1-5
5	Financial Planning for Entrepreneurship 5.1 Importance of Financial Planning – Role of technology 5.2 Role of Government in financing 5.3 Business Plan - Elements - Preparation - Feasibility report	K1-K4 K1-K5 K1-K6	13	1-5

BOOKS FOR STUDY

Ateljevic, Jovo, and Stephen J. Page, editors. *Tourism and entrepreneurship International Perspectives*. Elsevier, 2009

Sotiriadis, Marios, editor. *The Emerald Book of Entrepreneurship in Tourism, Travel and Hospitality*. Emerald, 2018

BOOKS FOR REFERENCE

Kumar, Anil S., and S. C. Poornima, et al. *Entrepreneurship Development*. New Age International, 2003.

Desai, Vasant. *Small Scale Industries and Entrepreneurship in the Twenty first century*. Himalaya Publishing House, 2008.

Desai, Vasant. *Entrepreneurial Development*. Himalaya Publishing House, 1991.

JOURNALS

Asia Pacific Journal of Innovation and entrepreneurship, Emerald Publishing House.

Tourism Management Journal, ScienceDirect Open Access.

WEB RESOURCES

<http://researchgate.net/>

<http://european-science.com/eojnss/article/view/775>

www.tourismtoday.com

PATTERN OF ASSESSMENT

Continuous Assessment Test:

Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50 marks	9	13

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:**Total Marks: 100****Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 question	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 question	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/EI64												
	Course Title: Entrepreneurship in Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	2	3	3	3	3	2	3	3	3
CO 2	3	2	3	3	2	3	3	3	3	2	3	3	3
CO 3	3	3	3	3	3	3	2	2	2	3	3	2	3
CO 4	3	2	3	2	3	3	3	3	3	1	3	1	2
CO 5	3	2	3	3	2	3	1	1	3	1	3	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE –TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

TOURISM CARGO AND LOGISTICS

CODE: 23TT/MC/CL63

CREDITS: 3

L T P: 3 1 0

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To help students understand cargo and logistics management.
- To explain international air routes for air cargo operations.
- To explain the formalities connected with cargo operations.
- To understand how cargo is handled at an airport.
- To understand the concepts of demand and supply in tourism products.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	identify the different kinds of cargo.	K1
CO2	explain procedures for handling cargo.	K2
CO3	demonstrate knowledge of the roles of different staff in cargo handling.	K3
CO4	compare various types of cargo rates.	K4
CO5	summarise the procedures for the handling of different kinds of cargo.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Cargo and Logistics- meaning, scope and definition 1.2 Cargo and Logistics Management - logistics Framework 1.3 Role of Logistics management- Integrated Logistics movement - Functions of Logistics Management.	K1-K4 K1-K5 K1-K5	10	1-5
2	Air cargo Management 2.1 Types of cargo - Domestic and International 2.2 Aircraft Layout - Different types of Aircrafts - International Air Routes – loading and unloading - Process Flow. 2.3 Cargo Rates - Types - Concept of Consolidation.	K1-K5 K1-K5 K1-K5	15	1-5
3	Handling of Cargo in Airport 3.1 Handling of Cargo – Equipment at Airport loading and unloading – Special Cargo Handling – Perishables – Dangerous goods – Carriage of Live animals. 3.2 Air Cargo Operation - Types – Fragile Cargo - Dangerous Goods Regulation - Documentation for Cargo handlers - Air wage bill. 3.3 IATA recognised cargo agent – Agents’ Duties and Responsibilities.	K1-K5 K1-K5 K1-K5	15	1-5
4	Cargo Trends and Forecasts 4.1 Cargo operations - Tagging and Storage of Unit Load Devices, Continued Airworthiness of Unit Load Devices - ULD Build-up, Breakdown, Transportation, Operations Training and Qualification. 4.2 Aircraft Ground Stability- Tipping, Potable Water Servicing, Aircraft Toilet Servicing 4.3 Load Control and Limitation - Bulk Compartment	K1-K5 K1-K5 K1-K5	15	1-5
5	Tourism Logistic Support Service 5.1 Tourism Logistic Support Services - meaning and Importance 5.2 Demand and Supply of Tourism Product - Types of tourism demand and supply 5.3 Importance of Transport in travel and Tourism with special reference to Railways and Roadways	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Doganis, Rigas. *The Airport Business*. Routledge, 1992.

ePGPathshala. *P08 - Cargo Operations and Management*.

(https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S001827/P001830/M029362/ET/15244870098.25Q1.pdf)

BOOKS FOR REFERENCE

Gupta S. K. *International Air Fare and Ticketing*. UDH Publishers.

Evans, Julien. *All You Ever Wanted to Know About Flying: The Passenger's Guide to How Airlines Fly*. Motorbooks, 2000.

Shainesh, G., Kotler, Philip, et al. *Marketing Management*. Pearson 2022.

Dileep M.R. *Tourism, Transport and Travel Management*. Routledge 2019.

JOURNALS

Journal of Air Transport Management, Elsevier

Tourism Management, ScienceDirect

WEB SOURCES

<https://transportgeography.org/contents/applications/tourism-transport/>

<https://www.mckinsey.com/industries/travel-logistics-and-infrastructure/our-insights>

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination: Total Marks: 100 Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/MC/CL63												
	Course Title: Tourism Cargo and Logistics												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	2	2	3	1	1	1	1	3	1	3	3	2
CO 2	2	1	3	2	1	2	2	2	3	2	3	2	2
CO 3	2	3	2	3	1	2	3	3	2	2	3	3	3
CO 4	3	2	3	2	3	2	2	2	2	2	2	2	3
CO 5	3	3	2	3	2	3	3	3	2	3	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

DEPARTMENT OF VALUE EDUCATION

SYLLABUS

(Effective from the academic year 2023–2024)

LIFE SKILLS: AN APPROACH TO A HOLISTIC WAY OF LIFE

CODE:23VE/SS/HL63

CREDITS:3

L T P:3 0 0

TOTAL TEACHING HOURS:39

OBJECTIVES OF THE COURSE

- To help students grow in spirituality and to experience themselves as integrated persons
- To help students understand themselves as relational beings and appreciate their role in family and society
- To help students recognize the commonality and differences of the different religions in India
- To help students grow in an awareness of the protective laws regarding women
- To prepare students to make informed choices in family and career

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

- Appreciate themselves as integrated persons
- Recognize their role in family and society and become aware of the different protective laws in favour of women
- Make prudent choices for career and family
- Manage work life balance
- Live a harmonious life and be a channel of peace

Unit 1

Spiritual Self

(10 Hours)

- 1.1 Understanding spirituality-Understanding the Spiritual side of oneself
- 1.2 Role of religious practices and growing in spirituality
- 1.3 Acceptance of self – self-identity, self-worth, self-respect, self-appreciation and self- presentation
- 1.4 Nurturing self - being at home with self, being able to connect with the inner self
- 1.5 Relationship with the Divine:
Discovering the Divine in self, creation, and others – St. Francis of Assisi-
Canticle of creatures Seeking the Divine through meditation, prayer and
worship

Unit 2

Relational Self: Women in the family

(17 Hours)

- 2.1 Understanding one's self in the context of family
- 2.2 Family networks
- 2.3 Family time – prayer, meals, and relaxation

- 2.4 Family and social values: respect for others, understanding individual needs and responsibilities – give and take
- 2.5 Understanding different parenting styles – authoritarian, permissive and democratic
- 2.6 Appreciating the gift of womanhood – foundress-Mary of the Passion's vision of womanhood
- 2.7 Opting for marriage, single, religious or a life committed to a cause
- 2.8 Marriage and family, choice of life partner, marital relationships, planning of family
- 2.9 Other types of relationships - pre-marital relationships, live-in relationship and LGBT issues
- 2.10 Roles and responsibilities of women as home makers and career woman, work life balance (WLB)
- 2.11 Marriage as a sacred bond and fidelity in marriage

Unit 3

Integrated Self

(12 Hours)

- 3.1 Integrating the spiritual, relational, social/political self
- 3.2 Integrating one's past with the present and the future for holistic living
- 3.3 Social Issues- crimes against women, harassment, gender discrimination, dowry, abortion, separation, divorce and cyber-crimes
- 3.4 Legal rights of women-property, marital and adoptive rights
- 3.5 Sensitization to different religions and religious practices in family and society
- 3.6 Challenges of inter caste and inter religious marriages
- 3.7 Integration of self with family, community and society

Retreat/Workshop – Required for course completion.

BOOKS FOR REFERENCE

Davidar(Eds). Human Values. All India Association of Christian Higher Education. (AIACHE) New Delhi: 2013.

James, G.M. et.al. In Harmony-Value Education at College Level. Chennai: Prakash, 2011.

James, G.M. Personality Development For Life Issues and Coping Strategies. Chennai: 2011

Teaching / Learning Methods

Lectures /Group Discussions/Presentations/Seminars/Guest Lectures

PATTERN OF ASSESSMENT:

Marks: 50

Task based/Seminars/Poster Making/Scrap book/Assignment

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE –TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

TOURISM LAW

CODE: 23TT/ME/TL45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To help students understand the scope of tourist laws.
- To explain how laws are necessary for tourist protection and the environment.
- To understand the laws applicable in different situations in travel and tourism.
- To examine the legal formalities for tourists in India.
- To gain knowledge of the licences necessary to run a tourist or hospitality business.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	describe tourist laws.	K1
CO2	explain the different types of tourist laws.	K2
CO3	use laws to improve tourist safety and the protection of the environment.	K3
CO4	outline the laws applicable to particular situations in tourism.	K4
CO5	evaluate the effectiveness of law.	K5
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Tourism Law – Meaning and scope 1.2 Need and importance of Tourism laws 1.3 Tourism Laws – Hospitality industry – Tourist destinations	K1-K4 K1-K5 K1-K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Types of Tourism Laws 2.1 Laws for tourist protection 2.2 Laws for Border controls and environment protection 2.3 Laws for Historical sites and monuments	K1-K4 K1-K4 K1-K4	15	1-5
3	Tourism Laws in India 3.1 Environment related laws 3.2 Monuments – Protection of Tourist and Health 3.3 Licence applicable in hotels – Laws related to foreign tourists – Transportation	K1-K4 K1-K5 K1-K5	15	1-5
4	Legal Formalities for Tourists 4.1 Citizenship – Passport – Visa - Immigration 4.2 Foreign Exchange Management Act, 1999 (FEMA) – Foreigners Registration Act, 1939 – Customs 4.3 RBI guidelines - Criminal Law - Registration of cases	K1-K4 K1-K5 K1-K5	10	1-5
5	Laws for Hospitality Industry 5.1 Business and commerce laws – Industries and labour laws 5.2 Social and welfare laws 5.3 Laws for crimes against tourists	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Faure, Michael G, et al. *Sustainable Tourism and Law*. Eleven International, 2014.
 Garg, Shashank. *Tourism Law in India: A Comprehensive Manual of Concepts, Regulations & Guidelines*. LexisNexis, 2013.

BOOKS FOR REFERENCE

Cohen, Glenn I. *Patients with Passports: Medical Tourism, Law and Ethics*. Oxford University Press, 2015.
 Lima, Maria Goretti Sanches. *Traveller Vulnerability in the Context of Travel and Tourism Contracts*. Springer, 2018.
 Adido, Terry O. *Transplant Tourism: An International and National Law Model to Prohibit Travelling Abroad for Illegal Organ Transplant*. Martinus Nijhoff, 2018.
 D'Aspremont, Jean. *International Law as a Profession*. Cambridge University Press, 2017.
 Papathanassis, Alexis, et al. *Yellow Tourism: Crime and Corruption in the Holiday Sector*. Springer, 2019.

WEB SOURCES

www.unwto.org/technical-product/tourism-legislation-and-regulation

www.tourismandmore.com/tidbits/tourism-and-the-law/

tourismandlaw.es

JOURNALS

Journal of Tourism Planning and Development, Taylor & Francis.

International Journal of Law, Tourism, and Culture, University of Pendidikan Ganesha Singaraja, Indonesia.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/ME/TL45												
	Course Title: Tourism Law												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	1	3	1	3	1	1	2	2	2	1	2	2	2
CO 2	1	1	3	3	3	1	3	3	2	1	3	2	3
CO 3	2	3	2	3	2	1	3	1	3	3	3	2	2
CO 4	2	3	2	3	3	3	3	2	3	1	3	3	2
CO 5	3	2	3	2	2	3	3	3	1	2	3	1	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

ECO TOURISM AND SUSTAINABILITY

CODE: 23TT/ME/EC45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to understand the principles of eco-tourism.
- To help them understand the scope of ecotourism in the modern world.
- To discuss the various impacts of eco-tourism activities.
- To explain the need to conserve ecology at global and national level.
- To promote sustainable eco-tourism.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	define the concept of eco-tourism.	K1
CO2	identify the different types of eco-tourism resources.	K2
CO3	apply their knowledge to promote sustainable ecotourism activities.	K3
CO4	assess the effectiveness of national and international guidelines and policies in conserving ecology.	K4
CO5	evaluate the impacts of eco-tourism.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Eco tourism 1.1 Defining Eco-tourism - Components of Eco tourism – Green Tourism 1.2 Principles and types of eco-tourism 1.3 Global growth and magnitude of eco-tourism	K1-K4 K1-K5 K1-K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Ecology and its branches 2.1 Eco system – Food Chain – Food Web – Sustainability - Carrying Capacity- Absorbing Capacity – Climate – Topography 2.2 Eco Tourism Resources - Hill stations – Forests - Coastal Areas – Coastal Restricted Zones 2.3 Eco Tourism Venues- Private Protected Areas- Public Protected Areas- Modified Spaces - Indigenous territories - Sustainable Tourism	K1-K4 K1-K5 K1-K5	15	1-5
3	Impacts of Ecotourism 3.1 Environmental Impacts of Eco tourism – Pollution and types – Global warming – Ozone depletion – Climate change – Formulating methods of conservation 3.2 Socio-Cultural Impact of Eco tourism – Positive and negative impacts 3.3 Economic Impact of Eco tourism – Foreign exchange earnings – Government revenue – Employment and income	K1-K5 K1-K4 K1-K4	15	1-5
4	Planning in Ecotourism 4.1 United Nations Environmental Programme (UNEP) - Earth Summits – Kyoto Protocol – Climate change Conventions 4.2 National Policy on Ecology 4.3 Eco Labelling and Eco Certification	K1-K4 K1-K5 K1-K5	10	1-5
5	The Business of Ecotourism 5.1 Eco-Bridge - Eco Lodges - Eco Resorts – Eco Parks 5.2 Development Strategies for Eco tourist Accommodations – Promotional offers and packages 5.3 Marketing and promotion of Eco-tourist destinations – Responsible tourism Sustainable development	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Chawla, Ramesh. *Ecology and Tourism Development*. Sumit Enterprises, 2006.
Singh, Ratan Deep. *National Eco Tourism and Wildlife Tourism - Policies and Guidelines*. Kanishka Publishers, 2004.

BOOKS FOR REFERENCE:

Arora, Shyam Lal. *Adventure tourism and sports, Issues and Perspectives*. Cyber Tech Publications, 2007.
Singh, Ratan Deep. *Dynamics of Modern Tourism*. Kanishka publishers, 2008.
Pruthi, R.K., *Tourism Industry and Environmental Management*. Rajat Publications, 2006.
Gale, Tim. *Ecotourism and Environmental Sustainability: Principles and Practice*. Routledge, 2016.
Kandari, O. P., *Tourism, Biodiversity and Sustainable Development: Tourism and sustainability*. Isha, 2003.

WEB SOURCES

<https://www.ecotourism.org/what-is-ecotourism>
www.nature.org > Green Living
www.ecoindia.com/eco-tourism-in-india.html

JOURNALS

The Encyclopaedia of Ecotourism, CABI Digital Library.
Journal of Ecotourism, Taylor & Francis.
Journal of Coastal Research, BioOne DigitalLibrary.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed**End Semester Examination: Total Marks: 100 Duration: 3 Hours**

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/ME/EC45												
	Course Title: Eco Tourism and Sustainability												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	1	3	1	3	2	3	1	3
CO 2	3	2	3	2	3	2	3	1	3	2	3	3	3
CO 3	3	3	1	3	3	1	2	1	3	2	3	2	3
CO 4	3	2	3	1	3	1	3	3	3	1	3	1	2
CO 5	3	2	3	3	3	3	3	2	3	1	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.A. DEGREE –TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

TECHNOLOGY IN TOURISM

CODE: 23TT/ME/TT45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To enable students to develop an understanding of technology in the context of tourism.
- To make them utilise free technological resources in the tourism and hospitality sectors.
- To aid them in creating tourist maps using open-source software.
- To learn the growth of the global distribution system.
- To evaluate the role of Information Communication Technology (ICT) in the tourism industry.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	list of open-source software applicable to the tourism sector.	K1, K2
CO2	explain the emerging technology trends in the tourism sector.	K3
CO3	examine factors influencing the future of tourism businesses based on ICT.	K4
CO4	estimate the effectiveness of a central reservation system.	K5
CO5	create tourist maps using open-source software.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Need for technology in tourism 1.2 Technological innovations and its impact 1.3 Use of technology in tourism	K1-K4 K1-K5 K1-K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Free Software and Open-Source Initiative websites 2.1 Definitions 2.2 Familiarisation with Google earth Pro 2.3 Familiarisation with Google My Map, Great Circle Mapper	K1-K4 K1-K5 K1-K6	15	1-5
3	Basic of QGIS 3.1 Introduction to Quantum Geographical information system 3.2 Understanding the Coordinates 3.3 Make your own Tourist Map using the open-source software.	K1-K4 K1-K4 K1-K4	15	1-5
4	Global Distribution System 4.1 History & Evolution – GDS & CRS – Levels of CRS Participation 4.2 Hotel Distribution System 4.3 Changing Business models of GDS	K1-K4 K1-K5 K1-K5	10	1-5
5	ICT application in tourism 5.1 Tourism organisations, National and State approaches 5.2 Latest meeting technologies - Video conferencing and Information Communication Technology (ICT) Implementation advantages. 5.3 Factors including ICT affecting the future of tourism business	K1-K5 K1-K5 K1-K5	10	1-5

BOOKS FOR STUDY

Galen, C., and M. Taun. *Hospitality Information Technology. Learning How to Use it.* 4th ed., Hunt Publishing, 1999.

Inkpen, G. *Information Technology for Travel and Tourism.* 2nd ed., Longman, 1998.

BOOKS FOR REFERENCE

Finkle, Coleman Lee. *Powerhouse Conferences.* Amer Hotel and Motel Assn, 1991.

PCMA, *Professional Meeting Management: Meetings, Conventions, and Events. Meaning conventions & Group business.* Agate B2, 2017.

Mair, Judith. *Conferences and Conventions: A Research Perspective.* 1st ed., Routledge, 2017.

Montgomery, R.J. *Meeting, Conventions and Expositions.* VNR, 1994.

Ziakas, Vassilios. *Event Portfolio Planning and Management a Holistic Approach.* Routledge, 2017.

WEB SOURCES

<https://www.google.com/maps/about/mymaps/>

<https://earth.google.com/web/>

<http://www.gcmap.com/>

JOURNALS

Journal of Tourism Planning and Development, Taylor & Francis.
Information Technology & Tourism (ITT), Springer.

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50 Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (6)	$3 \times 2 = 6$ marks	3 K1 questions	3 K1 questions
	K2 (4)	$2 \times 2 = 4$ marks	2 K2 questions	2 K2 questions
B - 1000 words	K3 (15)	$1 \times 15 = 15$ marks	1 K3 questions	2 K3 questions
	K4 (15)	$1 \times 15 = 15$ marks	1 K4 questions	2 K4 questions
C – 150 words	K5 (5)	$1 \times 5 = 5$ marks	1 K5 question	2 K5 questions
	K6 (5)	$1 \times 5 = 5$ marks	1 K6 question	2 K6 questions
	Total	50 marks	9	13

Other Components:

Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
	K2 (10)	$5 \times 2 = 10$ marks	5 K2 questions	5 K2 questions
B - 800 words	K3 (30)	$2 \times 15 = 30$ marks	2 K3 questions	3 K3 questions
	K4 (30)	$2 \times 15 = 30$ marks	2 K4 questions	3 K4 questions
C – 150 words	K5 (10)	$2 \times 5 = 10$ marks	2 K5 question	3 K5 questions
	K6 (10)	$2 \times 5 = 10$ marks	2 K6 question	3 K6 questions
	Total	100	18	22

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/ME/TT45												
	Course Title: Technology in Tourism												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	1	3	1	3	2	3	1	3
CO 2	3	2	3	2	3	2	3	1	3	2	3	3	3
CO 3	3	3	1	3	3	1	2	1	3	2	3	2	3
CO 4	3	2	3	1	3	1	3	3	3	1	3	1	2
CO 5	3	2	3	3	3	3	3	2	3	1	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023 – 2024)

AIRPORT CUSTOMER RELATIONS

CODE: 23TT/ME/AR45

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To provide students with an overview of airline operations.
- To familiarise them with airport formalities and basic airline operations.
- To help the students to learn about the different types of passengers.
- To enable students to understand customer handling.
- To help them have a better understanding of baggage handling.

COURSE LEARNING OUTCOMES:

On completion of the course the students will be able to

COs	DESCRIPTION	CL
CO1	describe airport operations.	K1
CO2	explain arrival and departure formalities at the airport.	K2
CO3	identify different types of airport customer services.	K3
CO4	distinguish between the categories of air passengers and classes of service.	K4
CO5	assess the effectiveness of passenger and baggage handling.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Overview of Aircraft Operations 1.1 Types of Aircrafts - Terminals and Runways 1.2 Flight operations - Crew and Cargo Administration 1.3 Catering – In-flight and Ground Catering	K1-K3 K4-K5 K1-K5	15	1-5

UNIT	CONTENT	CL	Hrs	CO
2	Arrival and Departure Formalities 2.1 Arrival and Departure Procedures - Check-in - Passenger tickets - Tickets – Miscellaneous Charges Order 2.2 Transportation Documents – Travel Insurance – Health Documents 2.3 Baggage Check-in - Boarding pass – Passport and Visa - Security Screening - Immigration – Customs Clearance – Embarkation and Disembarkation	K1-K3 K1-K4 K1-K5	15	1-5
3	Categories of Passengers 3.1 Very Important Person (VIPs) - Commercially Important Passengers (CIPs) 3.2 Frequent Flyers - Unaccompanied Minor (UMNR) - Families with Infants – Children 3.3 Passengers with Reduced Mobility (PRMs) and Unruly Passengers	K1-K4 K3-K5 K3-K5	10	1-5
4	Passenger handling 4.1 Handling Difficult Passenger situations at Airport and In-flight 4.2 Delay on Departure of flight – Transit flights – Cross Connection Flights – Cancellation of Flights – Diversion of Flights 4.3 Handling Overbooking	K1-K3 K1-K4 K3-K5	10	1-5
5	Baggage Handling 5.1 Checked Baggage – Unchecked Baggage – Pets/animals in - Cabin and in-hold - Dangerous goods in baggage 5.2 Crew Baggage - Lost Baggage - Expedite Baggage - Unclaimed Found Baggage, Lost and Found - Damaged Personal Property 5.3 Damage of Checked Baggage and Pilfered Property - Central Baggage Tracing Systems	K1-K5 K3-K5 K1-K5	15	1-5

BOOKS FOR STUDY

Airport Manual

Airport Authority Manual

Frankfinn Institute - Manual

BOOKS FOR REFERENCE

Airport Manual
Airport Authority Manual

JOURNALS

Journal of Airline and Airport Management, Omnia Science.
Journal of Airport Management, Henry Stewart Publications.

WEB RESOURCES

www.iata.org
www.aai.aero

PATTERN OF ASSESSMENT

Continuous Assessment Test: Total Marks: 50

Duration: 90 minutes

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (10)	$5 \times 2 = 10$ marks	5 K1 questions	5 K1 questions
B - 150 words	K2 (10)	$2 \times 5 = 10$ marks	2 K2 questions	3 K2 questions
	K3 (10)	$2 \times 5 = 10$ marks	2 K3 questions	3 K3 questions
C – 1000 words	K4 (10)	$1 \times 10 = 10$ marks	1 K4 question	2 K4 questions
	K5 (10)	$1 \times 10 = 10$ marks	1 K5 question	2 K5 questions
	Total	50	11	15

Other Components: Total Marks: 50

Assignment, seminar, quiz, open book test, group discussion

Two to three components will be prescribed

End Semester Examination:

Total Marks: 100

Duration: 3 Hours

Section	Cognitive Level and Allocation of Marks	Marks per Section	No. of Questions to be answered	No. of Questions to be set
A - 30 words	K1 (20)	$10 \times 2 = 20$ marks	10 K1 questions	10 K1 questions
B – 150 words	K2 (20)	$4 \times 5 = 20$ marks	4 K2 questions	5 K2 questions
	K3 (20)	$4 \times 5 = 20$ marks	4 K3 questions	5 K3 questions
C – 1000 words	K4 (20)	$1 \times 20 = 20$ marks	1 K4 question	2 K4 questions
	K5 (20)	$1 \times 20 = 20$ marks	1 K5 question	2 K5 questions
	Total	100	20	24

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/ME/AR45												
	Course Title: Airport Customer Relations												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	1	3	1	1	3	1	3	3	2
CO 2	2	1	3	3	1	3	1	1	3	1	3	2	1
CO 3	2	3	3	3	1	3	1	2	3	1	3	3	3
CO 4	3	2	3	3	3	3	1	1	3	2	3	3	3
CO 5	3	3	3	3	2	3	1	1	3	3	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

PROJECT

CODE: 23TT/ME/PR45

CREDITS: 5

OBJECTIVES OF THE COURSE

- To enable students to develop research capabilities.
- To make students develop an interest in minor and major research projects.
- To help students gain knowledge of career opportunities through projects.
- To help students have a better understanding of the process of research.
- To help students learn the techniques of research writing.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the process of research.	K1, K2
CO2	paraphrase and summarize knowledge gained from sources.	K3
CO3	collect, collate and synthesise data.	K4
CO4	assess the techniques needed for different kinds of research and use them in project writing.	K5
CO5	write a brief dissertation using accepted research methodology.	K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

Project Guidelines

- A small-scale research which can be completed in the amount of time one would spend in and out of class for a regular 6-credit module
- Organised into chapters and with a contents page, references and bibliography
- Preferable link made between theory and practise
- There should be empirical research, though may be modest in scale but first hand research is essential to enhance the overall quality of the project

Unit 1

Introduction

- 1.1. Introduction: a general introduction to the topical area
- 1.2. Statement of the problem: very specific statement of the problem to be studied.
- 1.3. Purpose of the Project: in this section a description about the overall purpose of the project should be made known.
- 1.4. Definition of Terms: important terms and concepts used in the project should be adequately analysed and defined.

- 1.5. Significance of the project: this section should provide answers as to what the project will contribute.

Unit 2

Review of Literature

- 2.1. The review is a careful examination of a body of literature pointing toward the answer to the need for the study or project

Unit 3

Methodology

- 3.1. Explain the methods used for collecting data
3.2. Descriptive writing approach must be utilized
3.3. Collection of Data – Primary and Secondary

Unit 4

Summary and Recommendations

- 4.1. Introduction – an overview of the project should be provided in the section
4.2. Summary and Recommendations
4.3. References
4.4. Appendices

Contents of the Project Report

- Cover page
- Title page
- Acknowledgements
- Contents page
- List of figures or illustrations
- Main body – Introduction
- Main body – Review of Literature
- Main body – Methodology
- Main body – Summary
- Main body – Recommendations
- Main body – Conclusion
- Reference List/Bibliography
- Appendices

Avoid Plagiarism

PATTERN OF EVALUATION

Rubrics	Marks	Cognitive Level
Documentation/sources	10	K1
Formulating topic statement	15	K2
Explaining the conceptual framework	15	K3
Primary source analysis	20	K4
Research arguments	20	K5
Research conclusions	10	K6
Presentation/Viva	10	K6

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23TT/ME/PR45												
	Course Title: Project												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	3	1	2	3	2	3	3	3
CO 2	3	2	3	2	3	3	3	3	3	2	3	3	3
CO 3	3	3	3	1	3	3	2	2	3	3	3	2	3
CO 4	3	2	3	3	3	3	1	2	3	1	3	1	2
CO 5	3	2	3	3	2	3	1	2	3	1	3	2	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

**General Elective offered by the Department of Psychology for
B.A. / B.Sc. / B.Com. /B.B.A / B.C.A /B.S.W. Degree Programmes**

SYLLABUS

(Effective from the academic year 2023-2024)

TRAVEL AND TOURISM

CODE:23TT/GE/TT22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- The course aims to impart knowledge of travel and tourism.
- To help students to understand tourist motivations and demands.
- To help students understand how travel organisations function.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	describe the basic concepts of tourism.	K1
CO2	explain the tourist motivations and demands and the impact they have on travel businesses.	K2
CO3	distinguish between the different functions of domestic and foreign travel organisations.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Tourism: Concepts 1.1 Definitions and historical development of tourism 1.2 Types of Tourist-Visitor-Excursionists 1.3 Tourism: Components and Characteristics	K1-K3	8	1-3
2	Domestic and International Tourism 2.1 Domestic Tourism: features, pattern of growth and profile 2.2 International tourism: Tourist generating and destination regions 2.3 Tourism motivation and tourism demand	K1-K3	8	1-3

UNIT	CONTENT	CL	HRS	CO
3	Tourism Organizations 3.1 Objectives and Role of ITDC, TFCI, IRCTC 3.2 An overview of international organizations - WTO, IATA.	K1-K3	8	1-3

BOOKS FOR STUDY

Sinha, P.C. *Tourism Management*. 4 Vols., Anmol Publications, 1998.

Gartner, R. *Tourism Development*. John Wiley, 1996.

Sharma, J.K. *Tourism Planning and Development*. Elsevier, 1981

BOOKS FOR REFERENCE

Singh, Sagar. *Studies in Tourism*. Ashish Publishing, 2000.

Cooper, C., Fletcher, J., Gilbert, D., and Wanhil, S. *Tourism: Principles and Practices*. Pearson UK, 2017.

Goeldner, Charles R., and J.R. Brent Ritchie. *Tourism: Principles, Practices, Philosophies*. John Wiley, 2011.

Burkart, A.J., and Medlik, S. *Tourism: Past, Present and Future*. Elsevier, 1981.

JOURNALS

Tourism Management, Elsevier.

Journal of Travel and Tourism Marketing, Routledge.

PATTERN OF ASSESSMENT

Continuous Assessment: (Internal Only) Total Marks: 25 Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	$1 \times 5 = 5$ (5 questions out of 7, 1 mark each)
B	K2	10	$2 \times 5 = 10$ (5 questions out of 7, 2 marks each)
C	K3	10	$1 \times 10 = 10$ (1 question out of 2, 10 marks)

Other Component:

Total Marks: 25

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End Semester Examination

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

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SYLLABUS

(Effective from the academic year 2023-2024)

TRAVEL WRITING

CODE:23TT/GE/TW22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- To develop effective travel writing skills.
- To learn about rhetorical and stylistic strategies for travel writing.
- To understand how to produce readable texts.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	describe the concepts of drafts and various rhetorical strategies.	K1
CO2	explain the need for critiquing and for collaboration in improving writing.	K2
CO3	use technology to improve writing.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Introduction to the Travel writing 1.2 Writing about Place: How do we capture the particular spirit of a place? 1.3 Skill Component - workshop (split into 2 workshop groups: A and B)	K1-K3	10	1-3
2	Concept of Travel Writing 2.1 Concept of Beginnings & Endings 2.2 Review - Building Theme and Narrative Structure 2.3 Travel journalism and photography – Travel blog	K1-K3	10	1-3
3	Critique on Travel Essays 3.1 Drawing Characters from Real Life - Memorable encounters 3.2 Writing for Publication 3.3 Editing	K1-K3	6	1-3

BOOKS FOR STUDY

George, Don. *How to Be A Travel Writer*. 2017.

Hulme, Peter, and Tim Youngs. *The Cambridge Companion to Travel Writing*. 2002.

BOOKS FOR REFERENCE

Youngs, Tim. *The Cambridge Introduction to Travel Writing*. 2013.

Thompson, Carl. *Travel Writing*. Routledge, 2011.

Thoreau, Henry David. *Journeys, Adventures & Life in Harmony with Nature*. 6 Vols., 2017.

Blanton, Casey. *Travel Writing*. 2002.

Duncan, James, and Derek Gregory. *Writes of Passage: Reading Travel Writing*. 1999.

WEB SOURCES

<https://www.wanderlust.co.uk/content/get-paid-to-travel-travel-writing/>

<https://www.theguardian.com/books/travel-writing>

JOURNALS

Studies in Travel Writing, Taylor and Francis.

Coldnoon: International Journal of Travel Writing & Travelling Cultures, Bloomsbury

PATTERN OF ASSESSMENT

Continuous Assessment: (Internal Only) Total Marks: 25 **Duration: 60 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	5	$1 \times 5 = 5$ (5 questions out of 7, 1 mark each)
B	K2	10	$2 \times 5 = 10$ (5 questions out of 7, 2 marks each)
C	K3	10	$1 \times 10 = 10$ (1 question out of 2, 10 marks)

Other Component:

Total Marks: 25

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End Semester Examination

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

**General Elective offered by the Department of Psychology for
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SYLLABUS

(Effective from the academic year 2023-2024)

ADVERTISING FOR TOURISM BUSINESS

CODE:23TT/GE/AT22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- The course aims to impart knowledge of advertng.
- To help students to understand the significance of communication for the success of their business.
- To become familiar with common techniques in advertising.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	define advertising.	K1
CO2	describe the types of advertising.	K2
CO3	use social media more effectively as a promotional tool.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition of Advertising 1.2 Types of advertising 1.3 Impact of Advertising – Challenges in Advertising	K1-K3	8	1-3
2	Advertising for Tourism 2.1 Importance and Objective of Advertising in Tourism 2.2 Usage of Social media – Impact of Social media ads 2.3 Demerits of Media Advertisements	K1-K3	8	1-3
3	Application of Advertising Strategies 3.1 Advertising - Direct Marketing, Sales Promotion, Public relations and Sponsorship	K1-K3	8	1-3

UNIT	CONTENT	CL	HRS	CO
	3.2 Five Ms of Advertising- objective setting, advertising budget, Message decisions 3.3 Media Decisions and campaign evaluation 3.4 Major promotional tools, Developing Effective Communication, identifying target audience			

BOOKS FOR STUDY

Laing, Jennifer. *Explorer Travellers and Adventure Tourism*. Channel View Publications, 2014.
Ray, Nilanjan. *Tourism Marketing: A Strategic Approach*. Apple Academic, 2017.

BOOKS FOR REFERENCE

McCabe, Scott. *The Routledge Handbook of Tourism Marketing*. Routledge, 2014.
Morgan, Nigel, and Annette Pritchard. *Advertising in Tourism and Leisure*. Taylor and Francis, 2000.
Negoesu, Alina Gabriel. *A Semantic and Pragmatic Analysis of Tourism Advertising: Tourist Leaflets from Sibiu, Romania and South Dakota, USA*. Presa Universitară Clujeană, 2013
Stafford, Marla R., and Ronald J. Faber. *Advertising, Promotion, and New Media*. Routledge, 2005.
MacRury, Iain. *Advertising*. Routledge, 2009

WEB SOURCES

<https://www.shopify.in/encyclopedia/advertising>
<https://adage.com/>

JOURNALS

Journal of Advertising, Taylor & Francis.
International Journal of Advertising and Marketing, Taylor & Francis.

PATTERN OF ASSESSMENT

Continuous Assessment: (Internal Only) Total Marks: 25 **Duration: 60 minutes**

Section	Cognitive Level	Marks	Pattern
A	K1	5	$1 \times 5 = 5$ (5 questions out of 7, 1 mark each)
B	K2	10	$2 \times 5 = 10$ (5 questions out of 7, 2 marks each)
C	K3	10	$1 \times 10 = 10$ (1 question out of 2, 10 marks)

Other Component:

Total Marks: 25

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End Semester Examination

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

**General Elective offered by the Department of Psychology for
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SYLLABUS

(Effective from the academic year 2023-2024)

HERITAGE TOURISM

CODE:23TT/GE/HT22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- The course aims to impart knowledge of trends on heritage tourism
- To help students to understand the significance of heritage tourism as a part of heritage conservation.
- To become familiar with UNESCO's World Heritage Sites in India.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	explain the meaning of heritage tourism.	K1
CO2	describe its importance in promoting heritage in India.	K2
CO3	identify natural and cultural heritage sites in India.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Heritage: Meaning, Definition and feature of Indian Culture. 1.2 Indian Culture through ages 1.3 Role of UNESCO in Heritage Conservation	K1-K3	8	1-3
2	Arts and Crafts of India 2.1 Art and Crafts of India: Painting and Music, Persian and Hindi Literature – Fairs and Festivals and Cultural Synthesis.	K1-K3	8	1-3

UNIT	CONTENT	CL	HRS	CO
	2.2 Crafts History of India – Regional Crafts - Craft Hubs – Craft Bazar – Textile Crafts and Other Artifacts			
3	Role of UNESCO 3.1 Initiative in Promoting World Heritage Preservation 3.2 Criteria for the Inclusion of Cultural and Natural Properties In the World Heritage List. 3.3 UNESCO Heritage sites in India	K1-K3	8	1-3

BOOKS FOR STUDY

A L Basham - The Wonder that was India, Surjeet Publication, New Delhi

S.A.A. Rizvi - Wonder that was India – Vol 2, Sidgwick & Jackson, London

BOOKS FOR REFERENCE

Singh Sagar. *Studies in Tourism: Key Issues for Effective Management*. Ashish Publishing House, 2000.

Cooper C., Fletcher J., et al., *S. Tourism: Principles and Practices*. Longman, Harlow, 1998.

Burkart A.J and Medlik S. *Tourism: Past, Present and Future*. William Heinemann Ltd, 1974.

Dixit Manoj and Sheela Chatti. *Tourism Products*, New Royal Book Co, 2000.

Jacon Robinet and Joseph Sindhu. *Indian Tourism Products*. Abhijeet Publications, 2008.

Sri Gupta V.K. *Tourism in India*. Gyan Publishing House, 2013.

JOURNALS

Tourism Management - Elsevier

Journal of Travel and Tourism Marketing - Routledge

PATTERN OF ASSESSMENT

Continuous Assessment: (Internal Only) Total Marks: 25 Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	$1 \times 5 = 5$ (5 questions out of 7, 1 mark each)
B	K2	10	$2 \times 5 = 10$ (5 questions out of 7, 2 marks each)
C	K3	10	$1 \times 10 = 10$ (1 question out of 2, 10 marks)

Other Component:

Total Marks: 25

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End Semester Examination

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

VIRTUAL TOURISM

CODE:23TT/GE/VT22

CREDITS:2

L T P:2 0 0

TOTAL TEACHING HOURS:26

OBJECTIVES OF THE COURSE

- The course aims to impart knowledge of virtual tourism.
- To help students to understand the significance of a virtual tour as part of digital promotion for the success of travel agency businesses.
- To make students familiar with freely available software to create virtual tourism experiences.

COURSE LEARNING OUTCOMES

On completion of this course students will be able to

COs	DESCRIPTION	CL
CO1	explain the meaning of virtual tourism.	K1
CO2	describe its use as a tool of promotion.	K2
CO3	use commonly available tools to create a virtual tour.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definitions and the growth of virtual tourism 1.2 Marketing and promotion 1.3 Development of Virtual tourism experiences	K1-K3	8	1-3

UNIT	CONTENT	CL	HRS	CO
2	Types of Virtual Tourism 2.1 Domestic Tourism: Planning before buying tour packages, visiting places of the past, areas that are inaccessible. 2.2 International tourism: Planning before buying tour packages, visiting places of the past, areas that are inaccessible. 2.3 Tourism motivation and tourism demand	K1-K3	8	1-3
3	Create your Virtual Tour 3.1 Introduction to OBS software – Face recording with Image, screen and image slide Show. 3.2 Creating a virtual tour of students favorite domestic and international location.	K1-K3	8	1-3

BOOKS FOR STUDY

Sinha P.C. *Tourism Management*. Anmol Publications Pvt Ltd, 2007.

Kozak Nazmi and Kozak Metin (Eds). *Tourism Development*. Cambridge Scholars Publishing, 2015

Sharma J.K. *Tourism Planning and Development: A New Perspective*. Kanishka Publishers Distributors, 2000.

Jacquelyn Nicholson. *The Virtual Tour Book 1: Plug in and See the World*. Blurb, 2020.

BOOKS FOR REFERENCE

Singh Sagar. *Studies in Tourism: Key Issues for Effective Management*. Ashish Publishing House, 2000.

Cooper C., Fletcher J., et al., S. *Tourism: Principles and Practices*. Longman, Harlow, 1998.

Burkart A.J and Medlik S. *Tourism: Past, Present and Future*. William Heinemann Ltd, 1974.

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Sri Gupta V.K. *Tourism in India*. Gyan Publishing House, 2013.

JOURNALS

Tourism Management - Elsevier

Journal of Travel and Tourism Marketing - Routledge

PATTERN OF ASSESSMENT

Continuous Assessment: (Internal Only) Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Marks	Pattern
A	K1	5	$1 \times 5 = 5$ (5 questions out of 7, 1 mark each)
B	K2	10	$2 \times 5 = 10$ (5 questions out of 7, 2 marks each)
C	K3	10	$1 \times 10 = 10$ (1 question out of 2, 10 marks)

Other Component:

Total Marks: 25

Cognitive Level	Marks
K1	5
K2	10
K3	10

No End Semester Examination

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

TOURISM PRODUCTS OF INDIA

CODE: 23TT/UI/TP23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To enable students to understand the tourism products of India.
- To provide an overview of heritage, culture, nature-based, site and event-based attractions in India.
- To help them know the different components of tourism products.
- To describe the different types of tourism resources of India and their importance in tourism and management.
- To understand the role of handicrafts and textiles in tourism.

Unit 1

Introduction

- 1.1 Tourism products: meaning, characteristics, classification
- 1.2 Historic monuments of tourist significance: forts, palaces, museums, art galleries

Unit 2

Heritage & Religion

- 2.1 Heritage: meaning, types, Heritage sites of India
- 2.2 Popular religious centers of India: Hindu, Buddhist, Jain, Muslim and Christian

Unit 3

Nature based products

- 3.1 Islands and beaches
- 3.2 Deserts and Hill stations
- 3.3 Protected areas: Wildlife sanctuaries, national parks

Unit 4

Special Interest Tourism Products

- 4.1 Performing art of India: classical dances, folk dances and folk culture
- 4.2 Handicrafts and textiles of eastern India
- 4.3 Fairs and Festivals of India

Unit 5

Basis of Site and Event Based Attraction

- 5.1 Site Based Tourism Products in India
- 5.2 Event Based Tourism Products in India

BOOK FOR STUDY

Basham, A.L. *The Wonder that was India*. Picador, 2004.

Basham, A.L. *Cultural History of India*. Oxford, 1997.

Mahapatra, Anirban, Bradley Mayhew, et al. *Lonely Planet India*. 19th ed., Lonely Planet Global, 2022.

Jagannathan, Shakuntala. *India: Plan Your Own Holiday*. Feffer & Simons, 1989.

Kaul, H.K. *Travellers' India: An Anthology*. Oxford India, 1998.

Punja, Shobita. *Illustrated Guide to Museums of India*. Guidebook Company, 1990.

Huntington, Susan L. *The Art of Ancient India: Buddhist, Hindu, Jain*. Weatherhill, 1985.

Brown, Percy. *Indian Architecture*. 2 vols., Read Books, 2010.

PATTERN OF EVALUATION

End Semester Examination

Total Marks: 100

Duration 3 hours

Section A - $10 \times 3 = 30$ (All questions to be answered in 30 words each)

Section B - $5 \times 8 = 40$ (5 out of 8 questions to be answered in 300 words each)

Section C - $3 \times 10 = 30$ (3 questions to be answered in 1000 words each in either or pattern e.g., 19 (a) or (b))

STELLA MARIS COLLEGE(AUTONOMOUS), CHENNAI – 600086

B. A. DEGREE – TOURISM AND TRAVEL MANAGEMENT

SYLLABUS

(Effective from the academic year 2023-2024)

TOURIST TRANSPORTATION

CODE: 23TT/UI/TR23

CREDITS: 3

OBJECTIVES OF THE COURSE

- To identify the linkages between transport and tourism.
- To describe the role of transport in promoting tourism.
- To discuss the history and growth of the transportation industry.
- To understand the historical development of different modes of transportation.
- To understand the importance of transportation in the the tourism industry.

Unit 1

Introduction

- 1.1 Concept of Transportation – Meaning and Definition
- 1.2 Historical development and growth of transportation
- 1.3 Modes of Transportation in India

Unit 2

Surface Transportation

- 2.1 Modes of Land Transportation
- 2.2 Types – surface transports used for tourist
- 2.3 Global players in car rentals.

Unit 3

Railways

- 3.1 History and growth in India, General information, Railway zones
- 3.2 Tourist trains- luxury trains, toy trains, pilgrimage train

Unit 4

Water Transportation

- 4.1 History and growth of water transportation.
- 4.2 Types: ocean liners, cruise liners, ferries, houseboats.
- 4.3 Tourist packages on cruise.

Unit 5

Air Transportation

5.1 History and growth of Air transport – Freedom of Air

5.2 Warsaw convention, IATA, ICAO

5.3 Role and function of DGCA, study of Air India and other airlines.

BOOK FOR STUDY

Chand, Mohinder. *Travel Agency Management*. Anmol, 2009.

Burkart, A.J. and S. Medlik. *Tourism: Past, Present and Future*. Heineman, ELBS
Cooper, 1981.

Fletcher, John, et al. *Tourism Principles & Practices*. Pitman. 1993.

Mill, R.C. and A.M. Morrisson. *The Tourism System: An introductory Text*. Prentice, 1992.

Mill, R.C. *Tourism: The International Business*. Prentice Hall, 1990.

Seth, P.N. *Successful Tourism Management*. 2 vols, 1999.

PATTERN OF EVALUATION

End Semester Examination

Total Marks: 100

Duration 3 hours

Section A - $10 \times 3 = 30$ (All questions to be answered in 30 words each)

Section B - $5 \times 8 = 40$ (5 out of 8 questions to be answered in 300 words each)

Section C - $3 \times 10 = 30$ (3 questions to be answered in 1000 words each in either or pattern e.g.,
19 (a) or (b))



STELLA MARIS COLLEGE

(AUTONOMOUS), CHENNAI - INDIA

B.Voc. DEGREE

**FOOD PROCESSING AND QUALITY CONTROL
(CHOICE BASED CREDIT SYSTEM)**

**OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED CURRICULUM
FRAMEWORK (LOCF)**

SYLLABUS

(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc FOOD PROCESSING AND QUALITY CONTROL

PROGRAMME DESCRIPTION

The college was selected by UGC in August 2015 to offer Bachelor of Vocational Degree (B.Voc. Degree) programme in discipline namely Food Processing & Quality Control. The aim is to enhance Skill training and employability of graduates. The University of Madras communicated on 16 September 2015, granting permission to start the B.Voc. Degree Programmes from the academic year 2016-2017 and the programme was started in 2016. The focus of the programmes is on skill development and quality education with hands - on - training to meet the needs of students and the industry. The B.Voc programme is supported by the UGC (for a period of three years) under the aegis of National Skill Development Corporation (NSDC) and the respective Sector Skill Councils. The UGC under the aegis of NSQF has also awarded an extension to continue the three year B.Voc. Degree programme in 2018. The programme affiliated to the University of Madras offers the degree as "Bachelor of Vocational in Food Processing and Quality Control". The Sector Skill Council for the programme FPQC is Food Industry Capacity and Skill Initiative This programme is competency based and the curriculum is organised such that it includes the content of the Qualification Packs graded by NSQF at levels 4 to 7. The industry is actively involved in both curriculum design and imparting the skill sets. The uniqueness of the program is that it has multiple exit points after the successful completion of: at the end of first Year: Diploma (59 Credits), at the end of Second Year: Advanced Diploma (117 Credits), on successful completion of Third Year: B.Voc. Degree (180 Credits). Besides the University examination, the students are also assessed by FICSI and the certification awarded by NSDC for the respective Qualification Packs.

VISION OF THE DEPARTMENT

The vision of the department is to empower women to be strong, independent and professionally capable. The department also aims to provide values to be socially committed in building a strong community health by utilising the knowledge and skills acquired for the betterment of self and the society.

MISSION OF THE DEPARTMENT

- To facilitate skills training for employability and entrepreneurship to meet the challenges of a competitive world.
- To inspire other women to realise their potential and shape their innovative ideas into action to become financially independent, competent in the Food Processing Sector.

PROGRAMME SPECIFIC OUTCOMES

On successful completion of the B.Voc. in Food Processing and Quality Programme, the students will be able to

PSO 1	gain skills to find job opportunities in food processing industries.
PSO 2	acquire skills that can be utilized for self-employment in food sector.
PSO 3	enhance their skills for preparation of fruit and vegetable preserves, customized baking, and dairy products, thereby initiating entrepreneurial ventures.
PSO 4	acquire knowledge and skills for food analysis, quality assessment, food safety and auditing enabling them to find opportunities for employment in these sectors.
PSO 5	suggest remedial measures to combat nutritional problems by developing nutritious food products.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Voc - Food Processing and Quality Control 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	4	4	4	4	4	4	4	4					16	16
Part - II														
English	4	4	4	4	4	4	4	4					16	16
											Total		32	32
Part - III														
GE / Tamil	2	2	2	2									4	4
Value Education	2	2			2	2							4	4
Soft Skills (dept.)			2	2									2	2
Soft Skills (other)							4	4	2	2			6	6
									2	2			2	2
Soft Skills (VE)									2	2			2	2
Environmental Studies					2	2							2	2
Extension Activity			1										1	0
											Total		23	22
Part - IV														
Major Core	6	6	6	6	6	6	6	6	6	6	6	6	36	36
	6	6	6	6	6	6	6	6	6	6	6	6	36	36
									6	6	6	6	12	12
									6	6	15	15	21	21
Allied Core	5	5	5	5	5	5							15	15
Elective							5	5					5	5
Mentoring		1		1		1		1						4
Remedial						1								1
											Total		125	130
	29	30	30	30	29	31	29	30	30	30	33	33**	180	184

****Project Work Extends Outside the College Hours**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: FOOD PROCESSING AND QUALITY CONTROL

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
Semester - I									
23VF/VM/FM16	Food Microbiology with Laboratory Work	6	3	0	3	5	25	75	100
23VF/VM/FV16	Technology of Fruits and Vegetables Processing - Hands on Training	6	3	0	3	5	25	75	100
23VF/VA/HS15	Food Hygiene and Sanitation	5	4	0	1	3	25	75	100
23ZL/UE/DM12 /	Diseases and Management /	2	2	0	0	-	25	-	100
23TM/UE/BT12	Basic Tamil - I								
23UV/ET/VP12	Values in Personal Life	2	2	0	0	-	25	-	100
Semester - II									
23VF/VM/BT26	Baking Technology	6	3	0	3	5	25	75	100
23VF/VM/PP26	Principles of Food Processing and Preservation	6	3	0	3	5	25	75	100
23VF/VA/BN25	Basic Nutrition	5	5	0	0	3	25	75	100
23CM/UE/BP22/	Banking Practices /	2	2	0	0	-	25	-	100
23TM/UE/BT22	Basic Tamil -II								
23VF/US/SS22	Soft Skills	2	2	0	0	-	25	-	100
23EA/GM/--21	Extension Activity	1	-	-	-	-	-	-	-
Semester - III									
23VF/VM/DP36	Dairy Processing	6	3	0	3	5	25	75	100
23VF/VM/SE36	Sensory Evaluation with Laboratory Work	6	3	0	3	5	25	75	100
23VF/VA/NL35	Nutrition through Lifecycle	5	5	0	0	3	25	75	100
23UV/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	25	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: FOOD PROCESSING AND QUALITY CONTROL

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
23VF/UC/ES32	Environmental Studies	2	2	0	0	-	25	-	100
Semester - IV									
23VF/VM/FI46	Food Analysis and Instrumentation-I	6	3	0	3	5	25	75	100
23VF/VM/FF46	Food Laws and Food Safety	6	3	0	3	5	25	75	100
23VF/VE/FL45 /	Flavour Chemistry and Technology /	5	5	0	0	3	25	75	100
23VF/VE/FP45	Food Packaging								
23CS/US/IC44	Introduction to Computer Skills	4	2	0	2	-	25	-	100
Semester - V									
23VF/VM/CN56	Community Nutrition	6	5	0	1	3	25	75	100
23VF/VM/FI56	Food Analysis and Instrumentation-II	6	3	0	3	5	25	75	100
23VF/VM/EI56	Entrepreneurial Initiatives	6	4	0	2	3	25	75	100
23VF/VM/PH56	Post Harvest Technology	6	3	0	3	5	25	75	100
23PY/US/HB52	Human Behaviour	2	2	0	0	-	25	-	100
23VF/US/CA52	Civic Awareness	2	2	0	0	-	25	-	100
23UV/US/SF52	Values in Social and Family Life	2	2	0	0	-	25	-	100
Semester - VI									
23VF/VM/FQ66	Food Quality Assurance	6	6	0	0	3	25	75	100
23VF/VM/WM66	Waste Management in Food Industry	6	3	0	3	5	25	75	100
23VF/VM/AT66	Advancements in Food Processing and Technology	6	6	0	0	3	25	75	100
23VF/VM/PR615	Project	15	0	0	15	-	25	75	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

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EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
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UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
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PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

B.Voc FOOD PROCESSING AND QUALITY CONTROL

PROGRAMME DESCRIPTION

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MISSION OF THE DEPARTMENT

- To facilitate skills training for employability and entrepreneurship to meet the challenges of a competitive world.
- To inspire other women to realise their potential and shape their innovative ideas into action to become financially independent, competent in the Food Processing Sector.

PROGRAMME SPECIFIC OUTCOMES

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PSO 1	gain skills to find job opportunities in food processing industries.
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PSO 3	enhance their skills for preparation of fruit and vegetable preserves, customized baking, and dairy products, thereby initiating entrepreneurial ventures.
PSO 4	acquire knowledge and skills for food analysis, quality assessment, food safety and auditing enabling them to find opportunities for employment in these sectors.
PSO 5	suggest remedial measures to combat nutritional problems by developing nutritious food products.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Voc - Food Processing and Quality Control 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	4	4	4	4	4	4	4	4					16	16
Part - II														
English	4	4	4	4	4	4	4	4					16	16
											Total		32	32
Part - III														
GE / Tamil	2	2	2	2									4	4
Value Education	2	2			2	2							4	4
Soft Skills (dept.)			2	2									2	2
Soft Skills (other)							4	4	2	2			6	6
									2	2			2	2
Soft Skills (VE)									2	2			2	2
Environmental Studies					2	2							2	2
Extension Activity			1										1	0
											Total		23	22
Part - IV														
Major Core	6	6	6	6	6	6	6	6	6	6	6	6	36	36
	6	6	6	6	6	6	6	6	6	6	6	6	36	36
									6	6	6	6	12	12
									6	6	15	15	21	21
Allied Core	5	5	5	5	5	5							15	15
Elective							5	5					5	5
Mentoring		1		1		1		1						4
Remedial						1								1
											Total		125	130
	29	30	30	30	29	31	29	30	30	30	33	33**	180	184

****Project Work Extends Outside the College Hours**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: FOOD PROCESSING AND QUALITY CONTROL

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
Semester - I									
23VF/VM/FM16	Food Microbiology with Laboratory Work	6	3	0	3	5	25	75	100
23VF/VM/FV16	Technology of Fruits and Vegetables Processing - Hands on Training	6	3	0	3	5	25	75	100
23VF/VA/HS15	Food Hygiene and Sanitation	5	4	0	1	3	25	75	100
23ZL/UE/DM12 /	Diseases and Management /	2	2	0	0	-	25	-	100
23TM/UE/BT12	Basic Tamil - I								
23UV/ET/VP12	Values in Personal Life	2	2	0	0	-	25	-	100
Semester - II									
23VF/VM/BT26	Baking Technology	6	3	0	3	5	25	75	100
23VF/VM/PP26	Principles of Food Processing and Preservation	6	3	0	3	5	25	75	100
23VF/VA/BN25	Basic Nutrition	5	5	0	0	3	25	75	100
23CM/UE/BP22/	Banking Practices /	2	2	0	0	-	25	-	100
23TM/UE/BT22	Basic Tamil -II								
23VF/US/SS22	Soft Skills	2	2	0	0	-	25	-	100
23EA/GM/--21	Extension Activity	1	-	-	-	-	-	-	-
Semester - III									
23VF/VM/DP36	Dairy Processing	6	3	0	3	5	25	75	100
23VF/VM/SE36	Sensory Evaluation with Laboratory Work	6	3	0	3	5	25	75	100
23VF/VA/NL35	Nutrition through Lifecycle	5	5	0	0	3	25	75	100
23UV/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	25	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: FOOD PROCESSING AND QUALITY CONTROL

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
23VF/UC/ES32	Environmental Studies	2	2	0	0	-	25	-	100
Semester - IV									
23VF/VM/FI46	Food Analysis and Instrumentation-I	6	3	0	3	5	25	75	100
23VF/VM/FF46	Food Laws and Food Safety	6	3	0	3	5	25	75	100
23VF/VE/FL45 /	Flavour Chemistry and Technology /	5	5	0	0	3	25	75	100
23VF/VE/FP45	Food Packaging								
23CS/US/IC44	Introduction to Computer Skills	4	2	0	2	-	25	-	100
Semester - V									
23VF/VM/CN56	Community Nutrition	6	5	0	1	3	25	75	100
23VF/VM/FI56	Food Analysis and Instrumentation-II	6	3	0	3	5	25	75	100
23VF/VM/EI56	Entrepreneurial Initiatives	6	4	0	2	3	25	75	100
23VF/VM/PH56	Post Harvest Technology	6	3	0	3	5	25	75	100
23PY/US/HB52	Human Behaviour	2	2	0	0	-	25	-	100
23VF/US/CA52	Civic Awareness	2	2	0	0	-	25	-	100
23UV/US/SF52	Values in Social and Family Life	2	2	0	0	-	25	-	100
Semester - VI									
23VF/VM/FQ66	Food Quality Assurance	6	6	0	0	3	25	75	100
23VF/VM/WM66	Waste Management in Food Industry	6	3	0	3	5	25	75	100
23VF/VM/AT66	Advancements in Food Processing and Technology	6	6	0	0	3	25	75	100
23VF/VM/PR615	Project	15	0	0	15	-	25	75	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FOOD MICROBIOLOGY WITH LABORATORY WORK

CODE: 23VF/VM/FM16

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To train the students on the general principles of Food Microbiology.
- To familiarize the factors that determines the growth and survival of microorganisms in food.
- To provide the knowledge of microorganisms (probiotic, pathogens, spoilage) associated with foods and their origin and role.
- To become aware of the Microorganism in Food and Environment.
- To acquire knowledge about the association between microorganism and health and their role in food processing

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	gain knowledge to identify about different microorganism and their classification, sources and the factors influencing their growth conditions for the viability of microorganisms.	K1
CO2	describe the methods for detection and controlling of microorganisms in food and recognize the limit to ascertain the safety of food products.	K2
CO3	explain the characteristics of pathogenic and spoilage microorganisms that will enable efficient isolation, detection and identification	K3
CO4	comprehend the current scenario of food microbiology in food processing industry for product development and by product utilization.	K4
CO5	establish knowledge on application of fermentation in food production and how it influences the microbiological quality and the status of the food product.	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Introduction to Microbiology 1.2 General Characters of Bacteria, Fungi, Virus, Protozoa and Algae	K1-K2 K1	5	1-3
2	Microbial Growth 2.1 Growth curve of Bacteria 2.2 Effect of Environmental Factors on Growth of Microorganism: pH, Water activity, Oxygen availability and Temperature 2.3 Perishable, Semi-Perishable Food, Shelf life and Stable Food	K1-K4 K5-K6 K4	9	1-5
3	Microbial Food Spoilage 3.1 Spoilage Microorganism in Cereals (Rice, Maize, Wheat, Millet), Pulses, Milk, Meat, Fish and Egg 3.2 Physical and Chemical Changes caused by Microorganism during Spoilage	K3-K5 K5-K6	9	1-5
4	Food Borne Diseases 4.1 Types: Food borne infections, Food borne Intoxication and Toxic Infections 4.2 Origin, Symptoms and Prevention of Food Borne Diseases 4.3 Site of Food Borne Illness – The Alimentary Tract its function and Microflora 4.4 Emerging Pathogens of concern and Risk factors associated with food borne illness (case study)	K1-K3 K1-K3 K2-K3 K5-K6	9	1-5
5	Role of microbes in Food Processing 5.1 Principles of Fermentation 5.2 Lactic acid Bacteria (LAB) in Food 5.3 Health promoting microorganisms – Probiotics and Prebiotics	K1-K3 K4-K5 K5	7	1-5
	Laboratory Work 1. Introduction to Basic Microbiological Equipment Autoclave, Inoculation Chamber, Laminar Air Flow, Hot air Oven, Water Bath, Incubator, Colony Counter, Microscope. 2. Culture Techniques Preparation of media – serial dilution – Pour plate, Streak plate, slant, loop, stab and spread plate 3. Staining Techniques Gram staining for Bacteria- Lacto phenol staining Technique for fungi- staining technique for yeast 4. Identification of Microorganisms Basic steps in detecting food pathogens- identification of important food borne fungi and bacteria-morphological study of bacteria and fungi Motility (Hanging Drop Method) 5. Microbial Analysis in Water Coliform Test-Presumptive Test- Confirmatory Test- Completed Test-Filter Technique	K1-K6	39	1-5

TEXT BOOK

Vijaya Ramesh, Food Microbiology, MJP Publisher, 2019
Anna K.Joshua, *Microbiology*, Popular Book Depot, Chennai-15, 2001

BOOKS FOR REFERENCE

Adams. M.R. and M.O. Moss. *Food Microbiology*. New Delhi: Panima Publishing Corporation, 2003
Banwart. G.J. *Basic Food Microbiology*, S.K. Jain for CBS Publishers and Distributors, 1974.
Jay. J.M. *Modern Food Microbiology*, S.K. Jain for CBS Publishers and Distributors, 1987
Parry. T.J. and Pawsey. R.K. *Principles of Microbiology*, Hutchinson and Co. 1984
Patel. A. H. *Industrial Microbiology*, New Delhi: Macmillan India Ltd. 1984
Frazier. C. and West Hoff. D.C. *Food Microbiology*, India: McGraw-Hill Pub. Co., Ltd., 1987
Betty. C. Hobbs Arnold. *Food Microbiology*. New Delhi: Heinenann Publisher, 1982.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:
THEORY

Marks: 50
Marks: 25

Duration: 3 hours
Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1×3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1×3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL

Marks: 25

Duration: 90 minutes

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:
THEORY

Total Marks: 100
Marks: 50

Duration: 5 hours
Duration: 2hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL

Marks: 50

Duration:3 hours

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23VF/VM/FM16												
I	Course Title: FOOD MICROBIOLOGY WITH LABORATORY WORK												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023-2024)

**TECHNOLOGY OF FRUITS AND VEGETABLE PROCESSING – HANDS ON
TRAINING**

CODE: 23VF/VM/FV16

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide an understanding on composition of fruits and vegetables.
- To familiarize with the changes occurring in various fruits and vegetable as a result of processing and cooking.
- To acquaint students with principles and methods of preservation and processing of fruits and vegetables into various products.
- To provide detailed information about drying process, nutritional quality and packing of fruits and vegetable products.
- To get hands on experience on processing of fruit and vegetables.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	describe the nature of fruits and vegetables and the basics of processing and storage technologies for fruits and vegetables.	K1, K2
CO2	inspect raw material quality to interpret fruit and vegetable processing.	K3
CO3	apply various techniques of chilling and drying in fruit and vegetable processing.	K4
CO4	demonstrate the domestic and industrial scale preparation of fruit and vegetable based products like Jam, Jelly, Marmalade, Ketchup, Canned products etc.	K5
CO5	utilize their skills to develop a fruit and vegetable start- up firm.	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Classification and composition of Fruits and Vegetables 1.2 Indian and global scenario on production and processing of fruits and vegetables. 1.3 Quality requirements of raw materials for processing; sourcing and receiving processing plants; grading, sorting, cleaning, washing, peeling, slicing and blanching: minimal processing.	K1-K2 K2 K1-K5	7	1-5
2	Fruit and Vegetable Processing - I 2.1 Processing for Pulp puree and concentrate, especially from Mango, Tomato, Guava, Papaya, Apple, Pineapple, Pomegranate, Grapes, using aseptic packaging 2.2 Frozen Fruits and Vegetables, Individual Quick Freezing (I.Q.F.)	K1- K6 K1-K6	8	1-5
3	Fruit and Vegetable Processing – II 3.1 Store management, inventory management, safety measures – fire extinguisher, first aid kit 3.2 Execution and post production processes 3.3 Principle and process of Canning.	K1-K2 K1-K3 K3-K6	8	1-5
4	Fruit and Vegetable Processing – III 4.1 Dehydration of Fruits and Vegetables using various drying technologies like sun drying, solar drying (natural and forced convection), osmotic, tunnel drying, fluidized bed drying, freeze drying, convectional and adiabatic drying 4.2 Applications to raisins, dried figs, vegetables, intermediate moisture Fruits and Vegetables 4.3 Drying of Fruits and Vegetables	K2-K6 K3-K4 K3-K5	8	1-5
5	Fermented Fruit Beverages 5.1 Principles of fermentation 5.2 Preparation of Grape wine and Vinegar 5.3 Principle, Chemistry and Preparation of Pectin	K1-K3 K3-K6 K1-K6	8	1-5
	Laboratory work 1. Preparation of Jam, Jelly and Marmalade Mixed Fruit Jam-Guava Jelly-Orange Marmalade 2 Preparation of Syrups, Crushes and Squashes Lime Syrup-Grape Crush-Mango Squash (Optional)-Pineapple Syrup 3 Preparation of Preserves and Candies Ginger Preserve-Tutti-frutti-Raisin 4 Preparation of Ketchup and Pickle Tomato ketchup, Lime Pickle-Mixed Vegetable Pickle-Cider 5 Drying and Canning Drying of Fruits and Vegetables-Banana-Peas Canning-Pineapple-Beans and Carrot	K1-K6	39	2-5

BOOK FOR STUDY

R. P. Srivastava and Sanjeev Kumar (2001); Fruit and Vegetable Preservation – Principles and Practices, Third edition, international Book distributing Co, Lucknow (India).
A.K. Thompson (2003): Fruit and Vegetables – Harvesting, handling and storage, 2nd edition Blackwell Publishing.

BOOKS FOR REFERENCE

Er. B. Pantastico: Post harvest physiology, handling and utilization of tropical and subtropical fruits and vegetables. AVI Publishing company, Inc.
W. V. Cruess (1997). Commercial Fruit and Vegetable Products. Allied scientific Publishers Bikaner (India).
Girdharilal (1996). Preservation of Fruits and Vegetables, ICAR, New Delhi.

WEB RESOURCES

<https://www.fao.org/3/v5030e/v5030e00.htm>
<http://ecoursesonline.iasri.res.in/mod/page/view.php?id=807>
<http://www.niftem-t.ac.in/fvp.p>

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY

Marks: 25

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1×3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1×3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL

Marks: 25

Duration: 90 minutes

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:
THEORY

Total Marks: 100
Marks: 50

Duration: 5 hours
Duration: 2hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL

Marks: 50

Duration:3 hours

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23VF/VM/FV16												
I	Course Title: TECHNOLOGY OF FRUITS AND VEGETABLES PROCESSING – HANDS ON TRAINING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	3	3	3	3	3	3	2
CO 2	3	2	3	3	3	3	3	3	3	3	2	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023-2024)

FOOD HYGIENE AND SANITATION

CODE: 23VF/VA/HS15

CREDITS:5

L T P: 4 0 1

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE:

- To introduce the various hygiene and sanitation techniques involved in food industries.
- To demonstrate the hygiene practices for a food handler.
- To illustrate the storage structures, pest control measures and waste disposal techniques.
- To provide knowledge on sanitation training and safety measures in food establishment.
- To summarize the protective measures for display of foods at food service outlets.

COURSE OUTCOMES:

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	explain the need for implementation of hygiene and sanitation procedures for premises, food handlers, and pest management practices.	K1,K2
CO2	explain training programme for food handler and food hygiene audits in food business operations to ensure food safety.	K3
CO3	evaluate critically the design and layout of a processing unit, supervise and implement storage and sanitation practices to prevent food losses.	K4
CO4	grade the FBO's on regulatory compliances to report the hygiene conformities.	K5
CO5	design a suitable layout, hygiene and pest control programme required for maintaining hygiene in FBO's .	K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Cleaning Procedures 1.1 Introduction to hygiene – Food Production cycle 1.2 Cleaning and Sanitization- Cleaning of premises and surroundings- importance, recording of hygiene data. 1.3 Guidelines and Types of Cleaning Equipment 1.4 Location Layout and Construction of Premises	K1-K2 K1-K5 K1-K4 K1-K6	8	1-5
2	Personal Hygiene 2.1 Importance of Personal Hygiene of Food handler – habits – clothes, illness 2.2 Education for Food handler – practical approach	K1-K3 K2- K5	8	1-5
3.	Pest Control and Disposal of Waste 3.1 Importance of Pest Control 3.2 Classification of Pests, 3.3 Use of Pesticide, Pest repellents 3.4 Waste Product handling (Solid and Liquid Waste) 3.5 Storage of grain and its importance 3.6 Storage structure, tradition modern and underground 3.7 Role of PDS, FCI, IGSI, SGC in controlling food losses	K1-K2 K1-K2 K1-K3 K1-K4 K1-K3 K1-K3	12	1-3
4.	Safety at the Work Place 4.1 Sanitation Training and Education 4.2 Steps in Planning and implementing a Training Programme 4.3 Types of Accidents and their Effect 4.4 Safety instruction in food industry 4.5 Process flow design	K1-K4 K2-K6 K3-K6 K1-K5 K1-K3	12	1-5
5.	Food Service Hygiene 5.1 Rules of food service 5.2 Protective display of foods 5.3 Hygiene in Street foods, restaurants and Quick Serve Restaurants, fast foods	K1-K4 K3-K6 K4-K6	12	1-5
	Group project	K1-K5	13	1-5

TEXT BOOK

Sunetra Roday. II edition. *Food Hygiene and Sanitation with Case Studies*. New Delhi: Tata McGraw Hill Education Pvt., Ltd., 2012

BOOKS FOR REFERENCES

Hobbs. B.C. and Gilbert. R.J. *Food Poisoning and Food Hygiene*. New York: The English Language Book Society and Edward Arnold Publishers Limited, 1978

Jacob. M. *Safe Food Handling*, Geneva: A training guide for Manager, WHO, 1989

James M. Jay. *Modern Food Microbiology*, New Delhi: CBS Publishers, 1996

Norman G. Marriot. *Principles of Food Sanitation*, Connecticut: AVI Publishing Co., Inc., 1989

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Marks: 50

Duration: 2 hours

THEORY:

Marks: 35

Duration: 1 hour 15 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	7	7×1=7 (All questions to be answered)
B	K2/K2	6	2×3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2×3=6 (2 out of 4 questions internal choice)
C	K4/ K4	6	2×3=6 (2 out of 4 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICALS

Marks: 15

Duration: 45 minutes

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	3
K5	2

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

THEORY

Marks: 75

Duration: 2 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (All questions to be answered)
B	K2/K2	10	2× 5=10 (2 out of 4 questions internal choice)
	K3/K3	10	2× 5=10(2 out of 4 questions internal choice)
C	K4/ K4	15	3×5=15 (3 out of 5 questions)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICALS

Marks: 25

Duration: 1 hour

Knowledge Level	Marks
K1	5
K2	3
K3	10
K4	5
K5	2

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23VF/VA/HS15												
I	Course Title: FOOD HYGIENE AND SANITATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

DISEASES AND MANAGEMENT

CODE: 23ZL/UE/DM12

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To study the causation, symptoms and diagnosis of important communicable and non-communicable diseases
- To learn the prevention and management of important communicable and lifestyle diseases

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Gain knowledge about the various diseases that affect humans.	K1
CO2	Identify the causes of occurrences of communicable and non communicable diseases.	K2
CO3	Illustrate preventive measures and techniques to manage the disease condition to prevent further advancement of the disease condition.	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	DISEASES 1.1 Introduction – Classification. 1.2 Principles of Epidemiology - Disease Cycle – Disease Progression. 1.3 Normal Microbiota of The Human Body. 1.4 Vaccines: Types – Immunization Schedule	K1-K2 K1-K2 K1- K3 K1- K3	6	CO 1-3

UNIT	CONTENT	CL	HRS	CO
2	COMMUNICABLE DISEASES AND MANAGEMENT 2.1 Nosocomial and Fomite-Borne Infections. 2.2 Air Borne Diseases: Tuberculosis, Swine Flu and Measles. 2.3 Food and Water Borne Diseases: Hepatitis A, Typhoid and Cholera. 2.4 Sexually Transmitted Diseases: Syphilis, Gonorrhoea and AIDS. 2.5 Zoonotic: Leptospirosis, Dengue Fever and Chikangunya	K1- K3 K1- K3 K1- K3 K1- K3 K1- K3	10	CO 1-3
3	NON-COMMUNICABLE DISEASES AND MANAGEMENT 3.1 Breast Cancer – Cervical Cancer. 3.2 Thyroid Disorders. 3.3 Myocardial Infarction (MI) – Chronic Obstructive Pulmonary Disorder (COPD). 3.4 Diabetes - Gastrointestinal Ulcers (Peptic and Duodenal) Parkinson's Disease.	K2-K3 K2-K3 K2-K3 K2-K3	10	CO 1-3

BOOKS FOR REFERENCE

Goel, S.L. *Education of Communicable and Non-Communicable Diseases*. Mayur, 2009.

Merrill Ray. *Introduction to Epidemiology*. Jones and Bartlett, 2010.

Park, J.E. *Textbook of Preventive and Social Medicine*. Banarsidas Bhanot, 1991.

Shier David, Butler Jackie and Lewis, Ricki. *Hole's Essentials of Human Anatomy and Physiology*. McGraw Hill, 2011.

Tortora, G.J, Funke B.R. and Case, C.L. *Microbiology: An Introduction*. Pearson Education, 2014.

JOURNALS

The Journal of Infectious Diseases

The Journal of Communicable Diseases

Population Health Management

WEB RESOURCES

<http://ismocd.org/>

http://www.photius.com/countries/india/society/india_society_communicable_and_non~76.html

<http://www.healthissuesindia.com/noncommunicable-diseases/>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

BAKING TECHNOLOGY

CODE: 23VF/VM/BT26

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To make aware of the scope of the baking industry.
- To develop skills in various baking procedures
- To educate with basic operation and working of various equipment involved in bakery processing.
- To develop with the knowledge and understanding of the raw material used for preparation of various bakery products.
- To perceive knowledge on quality and hygiene standards in a bakery unit.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the science of baking ingredients in improving the quality of bakery products.	K1
CO2	learn the manufacturing techniques of bread, cakes, biscuits, cookies and pastries.	K2
CO3	gain innovative skills in cake decoration and presentation.	K3
CO4	acquire the ability to prepare different types of baked products.	K4
CO5	develop their own bakery unit.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	INTRODUCTION TO BAKING 1.1 Bakery terms, Scope of bakery and confectionary 1.2 Organization chart of Bakery. Art of Baking 1.3 Equipments used in Baking – Ovens, Beater.	K1-K2 K1-K2	6	CO 1-3

UNIT	CONTENT	CL	Hrs	CO
2	ROLE OF DIFFERENT INGREDIENTS IN BAKING 2.1 Flour – Types of flour used in baking, role of flour in bakery. Gluten – Properties of gluten and its function in bakery. 2.2 Shortening / Fat – Types of shortenings / fat used in bakery. Egg – Role of egg in bakery. 2.3 Sugar – Types of sugar, role of sugar in bakery. 2.4 Leavening agent, Gelling agent and Stabilizers – Types their role in bakery.	K1- K4 K1- K4 K1- K4	10	CO 1-5
3	BREADS, CAKES AND PASTRIES 3.1 Bread – Types of breads, method of bread making – straight dough method, delayed salt method, no time dough method, sponge and dough method. Characteristics of good bread – External characteristics – volume, symmetry of shape, Internal characteristics – colour, texture, aroma, clarity and elasticity. 3.2 Cakes – Ingredients used in cake making, cake making method – sugar butter process, flour butter process, genoise method, blending and rubbing method. 3.3 Pastry – Short crust pastry, Jam tart, Lemon curd tart. Choux pastry, chocolate eclairs, profit role cream puff. Puff pastry and flaky pastry.	K2-K5 K2-K5 K2-K5	12	CO 1-5
4	ICINGS, BISCUITS AND COOKIES 4.1 Icings and Topping – Fondant, American frosting, butter cream icing, royal icing, gum paste, marzipan, marsh mallow, lemon meringue, fudge, almond paste, glaze icing. 4.2 Biscuits and Cookies – Plain biscuits, piping biscuits, cherry knobs, langue – de – chats, salted biscuits, nut biscuits, coconut biscuits, melting moment, macroons, chocolate biscuits, marble biscuits, nan – khatai, short bread biscuits, ginger biscuits, cheese biscuits, cream fingers.	K3-K5 K3-K5	12	CO 1-5
5	LAYOUT OF A BAKING UNIT 5.1 Bakery layout – Required liaison for setting up of a bakery – government procedure and bye – laws – selection of site, selection of equipment, layout design and electricity. 5.2 Quality control - Raw material and finished products.	K5-K6 K5-K6	16	CO 1-5

Laboratory Work 1. Preparation of Breads. 1.1 Straight dough method 1.2 Delayed salt method 1.3 No time dough method 1.4 Sponge and dough method. 2. Preparation of Cakes. 2.1 Sugar butter process 2.2 Flour butter process, 2.3 Genoise method 2.4 Blending and rubbing method. 3. Preparation of Pastry. 3.1 Short crust pastry. 3.2 Jam tart. 3.3 Lemon Curd tart. 3.4 Choux pastry. 3.5 Chocolate éclairs. 3.6 Puff pastry 3.7 flaky pastry. 4. Icing and Topping. 4.1 Fondant. 4.2 American frosting. 4.3 Marzipan 4.4 Fudge. 4.5 Glace icing. 5. Preparation of Biscuits 5.1 Plain biscuits. 5.2 Piping biscuits. 5.3 Salted biscuits. 5.4 Coconut biscuits. 5.5 Chocolate biscuits. 5.6 Marble biscuits. 6. Preparation of Cookies 6.1 Nan – Khatai 6.2 Short bread biscuits. 6.3 Ginger biscuits. 7. Cake Decoration. 9. Fondant Preparation. (Demonstration) 10. Preparation of Brownies	K4-K6	22	CO 1-5
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TEXTBOOKS

Khanna K, Gupta S, Seth R, Mahna R, Rekhi T (2004). The art and science of cooking: A practical manual, Revised Edition, Elite Publishing House Pvt Ltd.
 Dubey, S.C. (2007), Basic Baking 5th Ed Chanakya Mudrak Pvt. Ltd.

BOOKS FOR REFERENCES

Raina et. al, (2010), Basic Food Preparation – A complete manual, 4th Ed. Orient Black Swan Ltd.

Samuel A. Matz (1999). Bakery Technology and Engineering, PAN – TECH international incorporated.

Barndt R. L. (1993). Fat & Calorie – Modified Bakery Products, Springer US.

Faridi Faubion (1997). Dough Rheology and Baked Product Texture, CBS Publications.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY

Marks: 25

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1×3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1×3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL

Marks: 25

Duration: 90 minutes

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:
THEORY

Total Marks: 100
Marks: 50

Duration: 5 hours
Duration: 2hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL

Marks: 50

Duration:3 hours

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/BT26												
II	Course Title: BAKING TECHNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	2	3	3	3	3	3	3	2
CO 2	3	2	3	3	3	3	3	3	3	3	2	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

PRINCIPLES OF FOOD PROCESSING AND PRESERVATION

CODE: 23VF/VM/PP26

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide an understanding of the principles and scope of food processing
- To study about different thermal processes, and their impact on food quality.
- To gain knowledge about the different processing techniques applicable for different foods.
- To know and understand the advanced techniques used in food processing and preservation.
- To gain knowledge about the application of radiation techniques and use of anti-microbial agents in extending the shelf life of the food products.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the scope of food processing and preservation in reducing food spoilage.	K1
CO2	Understand and apply the different principles of food processing.	K2/K3
CO3	Select and examine appropriate methods of preprocessing and processing to improve nutritional quality of the food products	K3/K4
CO4	Apply modern techniques and develop food products with extended shelf life	K3/K6
CO5	Choose or suggest use of environmentally friendly techniques required for processing and preservation of fresh and processed foods	K5/K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction	K1-K2	6	CO1-C02
	1.1 Scope and Importance of Food Processing, Historical Development in Food Processing. Merits and Demerits. 1.2 Basic equipment used for food processing bucket elevators, pulverizes, rotary peelers, conveyers, mixers and types and applications.	K1-K3		
2	Principles of Food Preservation – High and Low temperature (Theory and Practical)		9	CO1-CO5
	2.1 Effect on heat on food components – Gelatinization, Denaturation and coagulation, enzyme inactivation, water removal.	K1-K4		
	2.2 Thermal methods- Sterilization, Pasteurization, Drying-Advantages, Effect of heat on Microorganisms, Thermal death time -concept.	K1-K4		
	2.3 Preservation and processing by low temperature- concept of chilling, air circulation and humidity -importance, Modified and controlled Atmosphere.	K1-K4		
3.	Processing Techniques for different foods (Theory and Practical)		12	CO3-CO5
	3.1 Cereal and Millets: Milling of cereals and millet- wheat products, Structure of gluten, effect of different methods of dough making on gluten, methods to improve nutrient availability in millets.	K1-K6		CO2-CO4
	3.2 Pulses – Decortication and effect of fermentation on pulses, Fermented products of Soya bean – Soya sauce	K1-K4		
	3.3 Nuts –Effect of roasting of nuts and oil seeds, processing of edible oils.	K1-K6		
	3.4 Eggs– Structure and composition, egg quality, egg processing, Application of eggs in food processing.	K1-K5		
	3.5 Meat, fish and poultry processing- Structure and Composition, poultry products, fermented meat products, fish quality and processing.			

UNIT	CONTENT	CL	Hrs	CO
4.	Modern Techniques for processing and preservation 4.1 Extruded food – Principle and Process- hot extrusion and cold extrusion, Advantages 4.2 Application of extrusion for pasta products manufacture. 4.3 Texturized Vegetable Protein, Extracted Soya bean Protein	K1-K3 K1-K4 K1-K3	7	CO4-CO5
5.	Methods of Preservation using radiation, antimicrobial agents 5.1 Kinds of radiation- Microwave, U.V, Solar, Ionizing- principle and their application in food processing, Safety aspects. 5.2 Use of anti-microbial agents in enhancing preservation- natural and synthetic. LABORATORY WORK 1. Effect of moist heat and dry heat on starches and sugars. 2. Denaturation and coagulation of egg protein. 4. Role of eggs – Foaming, emulsifying. 3. Structure of gluten – effect of dough making methods. 4. To study the gluten content in flours 5. Effect of fermentation on cereal and Pulses. 6. Effect of Roasting on nuts 7. Impact of heat in inactivation of enzymes 8. Effect of drying techniques. 9. Method to reduce antinutritional factors in millets.	K1-K2 K1-K5 K2-K6	5 39	CO1-CO5 CO1-CO5

Visit to Food Processing Units and Preparation of Food Products

TEXT BOOKS

Sivasankar. B. *Food Processing and Preservation*. New Delhi: Prentice-Hall of India Pvt., Ltd., 2005

Subbulakshmi. G. and A. Shobha. *Food Processing and Preservation*. New Delhi: New Age International Pvt., Ltd., 2008

BOOKS FOR REFERENCE

Banwart. George. J. *Basic Food Microbiology*, New Delhi: CBS Publications, 1987

Jay. James. M. *Modern Food Microbiology, Edition 3*, New Delhi: CBS Publishers, 1987

Kulshrestha. S.K. *Food Preservation*, New Delhi: Vikas Publishing House, 1994

Muller. H.G. *Nutrition and Food Processing*, India: Avi. Publishers, 1998

Norman. N. Potter. *Food Science*, New Delhi: CBS Publishers and Distributors, 2004

Scemetra. R. *Food Science and Nutrition*, New Delhi: Oxford University Press, 2007

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY

Marks: 25

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1×3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1×3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL

Marks: 25

Duration: 90 minutes

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION**End-Semester Examination:****Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL**Marks: 50****Duration:3 hours**

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/PP26												
II	Course Title: PRINCIPLES OF FOOD PROCESSING AND PRESERVATION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	3	3	2	2	2	3	3	3	3	2
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	2	2	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	2	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	2	3	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

BASIC NUTRITION

CODE: 23VF/VA/BN25

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To introduce the study on food groups, nutrition & its interrelationship with health.
- To provide knowledge on nutrient utilization in the body.
- To give an understanding of macronutrients, equip students on the usage of food guide to calculate nutritional value of foods.
- To help students understand the role of minerals in health and disease.
- To help gain knowledge on vitamins their role in disease prevention and understand the effect of processing.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Explain with clarity the basic concepts of Nutrition, Nutrients, Food Groups and their relationship to health and disease.	K1
CO2	Describe the role and importance of nutrients in human health	K2
CO3	Apply the knowledge on nutrients and energy for management of nutritional deficiencies.	K3
CO4	Examine and Identify food sources of nutrients and calculate nutritional composition for food products to include in pre packed food labels.	K4
CO5	Critically evaluate a meal/product for its wholesomeness in nutrition and suggest ways to balance nutrients while formulating healthy food products.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Nutrition 1.1 Introduction to Nutrition – Definition of Nutrition and Nutrients, interrelationship between Nutrition and Health 1.2 Basic food groups (4,5 &7) and use, Classification/functions of foods – Energy Yielding, Body building, Protection and Regulation, and Maintenance foods 1.3 Indian Food Composition Table (IFCT) – Use & Calculation of macronutrient content for meal/menu labeling 1.4 Role of Water in Nutrition, water balance, effect of deficiency	K1- K3 K1- K5 K2-K5 K1- K4	12	1-5
2	Macro nutrients -1 2.1 Uptake of food in the body – Digestion, factors affecting Absorption, Metabolism, & Storage 2.2 Energy – Unit, Sources, Energy value of food, RDA, Calculation of energy input, output and Balance, BMR and factors affecting BMR 2.3 Carbohydrates –Sources, Functions, RDA,Digestion, & metabolismStorage. Fibre, Types & Importance of Fibre	K1- K3 K3 – K5 K1 – K2	15	1-5
3	Macronutrients – 2 3.1 Proteins –Sources (including uncommon sources), Nutritional Importance, Protein Quality, RDA, Digestion 3.2 Fats Sources, Daily Requirement, Functions, RDA, Digestion	K1-K4 K1-K3	15	1-5
4	Micronutrients – Minerals 4.1 Sources, Functions, bio-availability of Macrominerals- Calcium, Iron, Micro minerals- Iodine, Fluorine, Sodium, Potassium 4.2 Effect of Deficiencies of the above minerals, their symptoms and remedial measures	K1-K3 K1 – K4	12	1-5
5	Vitamins 5.1 Fat soluble vitamins-A, D, E & K – Sources, Functions, Deficiency, effect of cooking 5.2 Water soluble vitamins - Ascorbic Acid, Thiamine, Riboflavin, Niacin – Sources, Functions, Deficiency, effect of cooking	K1- K5 K1-K5	11	1-5

TEXT BOOK

Swaminathan. M. *Advanced Textbook on Food and Nutrition*. (Vol I and II), Bangalore: Printing and Publishing Co. Ltd. 2015

BOOKS FOR REFERENCE

Bamji MS. Rao NA. & Reddy V. *Textbook of Human Nutrition*, Oxford & IBH, 2003

Norman. N. Potter. *Food Science*, New Delhi: CBS Publishers and Distributors, 2004

SeemaYadav. *Principles of Basic Nutrition*. India: Anmol Publishers, 1998

Swaminathan. M. *Handbook of Food and Nutrition*. Bangalore: Bangalore Printing and Publishing, 2012

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Marks: 50

Duration: 1.5 hour

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	10	2 x 5= 10 (2 out of 4 questions)
	K3/K3	10	2 x 5=10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10=10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10 × 2= 20 (All questions to be answered)
B	K2/K2	20	4 x 5= 20 (4 out of 6 questions)
	K3/K3	20	4 x 5 = 20 (4 out of 6 questions)
C	K4/K4	20	2 × 10= 20 (2 out of 4 questions)
D	K5/K5	20	1×20 =20 (1 out of 2 questions)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/BN25												
II	Course Title: BASIC NUTRITION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	2	2	2	3	2	2	3
CO 2	3	3	3	3	3	3	2	2	3	3	2	2	3
CO 3	3	3	3	2	3	3	2	2	3	2	3	2	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

BANKING PRACTICES

CODE: 23CM/UE/BP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To educate the students on the banking services
- To provide an opportunity to understand the significance of E-banking services.
- To acquire knowledge on negotiable instruments

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	To understand the opening and closing of bank accounts	K1
CO2	Identify the various E-banking services	K2
CO3	Comprehend knowledge on negotiable instruments	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	CUSTOMERS' ACCOUNTS WITH THE BANK 1.1 Opening of Bank Accounts. 1.2 Different Types of Bank Accounts. 1.3 Documents Relating to Transactions with Bank. 1.4 Closing of Bank Accounts	K1-K3	6	CO 1-3
2	E- BANKING 2.1 Meaning and Importance. 2.2 Credit Card, Debit Card, Smart Card. 2.3 Internet Banking – Services and Major Issues. 2.4 ATM – Concept, Features and Importance. 2.5 Mobile Banking and Telebanking	K1-K3	10	CO 1-3
3	NEGOTIABLE INSTRUMENTS 3.1 Meaning, Characteristics. 3.2 Types of Negotiable Instruments 3.2.1 Cheque – Requirement of a Cheque. 3.2.2 Post-dated Cheque, Stale Cheque, Ante-dated Cheque. 3.2.3 Crossing- Meaning, Types and Significance. 3.2.4 Endorsement- Types and Significance	K1-K3	10	CO 1-3

TEXTBOOKS

Gurusamy S. *Banking Theory Law and Practice*. 2nd ed. Chennai: Vijay Nicole, 2012.
Sundharam K.P.M. and P.N Varshney. *Banking Theory Law and Practice*. 18th ed. New Delhi:Sultan Chand, 2012.

BOOKS FOR REFERENCE

Bihari, SC. *E-Banking*. 1st ed. SkyLark, 2007.
Gordon E. and K.Natarajan. *Banking Theory Law and Practice*. 19th ed. Mumbai: Himalaya, 2012.
Gordon E., Natarajan K. *Emerging Scenario in Financial Services*. Mumbai: Himalaya,2006.
Rajesh R., T. Sivagnanasithi. *Banking Theory Law and Practice*. New Delhi: Mc GrawHill, 2009.
Taxmann. *Guide To Negotiable Instruments Act*. Taxmann, 2003.

JOURNALS

Journal of Banking and Finance
Banking and Financial Services – The Business
JournalsInternational Journal on Electronic
Banking

WEB RESOURCES

www.academia.edu
www.lawhandbook.sa.gov

PATTERN OF ASSESSMENT

Continuous Assessment: **Total Marks: 25** **Duration: 60 minutes**

Section	Cognitive Level	Mark Allocation	No. of Questions
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SYLLABUS**

(Effective from the academic year 2023 – 2024)

SOFT SKILLS

CODE: 23VF/US/SS22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To equip students with competencies to achieve personal and academic excellence
- To raise confidence levels

Unit 1

Self Awareness

(5hrs.)

- 1.1. Knowing One's Strengths and Weaknesses
- 1.2. Self-esteem and Self-worth

Unit 2

Work place Behavioural Training

(6hrs.)

- 2.1 Listening Skills
- 2.2 Interpersonal Skills
- 2.3 Team Work and Group dynamics
- 2.4 Personal Effectiveness
- 2.5 Creative Thinking

Unit 3

Planning Ahead

(5hrs.)

- 3.1 Time Management
- 3.2 Goal Setting

Unit 4

Career Mapping

(5hrs.)

- 4.1 Concept of Career
- 4.2 Career Options
- 4.3 Choice of Right Career

Unit 5

Adaptability Skills

(5hrs.)

- 5.1 Working independently
- 5.2 Working as a team
- 5.3 Multi-tasking
- 5.4 Innovation
- 5.5. Adapting to Change and Criticism

PATTERN OF EVALUATION

Continuous Assessment: (Totally internal)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

DAIRY PROCESSING

CODE: 23VF/VM/DP36

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To acquire the skills for processing different dairy products in an industry
- To understand the technology of dairy products.
- To be able to handle dairy equipment and machineries during production
- To observe food safety , quality and hygiene standards as dairy product processor

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand basic properties, processing, storage and sanitization techniques to be carried out during the production of milk and milk based products.	K1, K2
CO2	Apply the acquired knowledge to supervise the manufacturing of milk and other dairy products	K3
CO3	Assist in conducting quality and safety inspection in a dairy plant	K4
CO4	Analyze physical, chemical and biological constituents to evaluate quality of dairy products.	K5
CO5	Pursue entrepreneurial skills to manufacture indigenous products and develop new dairy based products.	K6

CL – Cognitive Level

K1 – Remember | K2 – Understand | K3 – Apply | K4 – Analyse | K5 – Evaluate | K6 – Create

UNIT	CONTENT	CL	Hrs	CO
1	Milk 1.1 Composition: Milk constituents - Composition of milk from different species, colostrum, factors affecting physico chemical properties , composition and nutritive value 1.2 Milk fat , milk protein, whey protein, milk sugar, milk ash, cream, butter, cheese, ice cream, skim milk, condensed milk 1.3 Quality of milk: Grading, sensory evaluation, common milk-borne diseases, spoilage, causes and prevention, adulterants and their detection	K1-K4 K2-K5 K1-K5	6	1-4
2	Production of direct Milk products (Theory and Practicals) 2.1 Chilling methods in the production of Milk and different types of milk: Condensed milk, standardized milk, Toned milk, homogenized milk and Evaporated milk, definition and properties 2.2 Cream separation: objective, principle, method, equipment and efficiency testing 2.3 Pasteurization and Sterilization: HTST pasteurization, objective, principle, method, equipment and efficiency testing. Homogenisation and Clarification	K1-K6 K2-K5 K1-K5	10	1-2
3	Production of Dairy products (Theory and Practicals) 3.1 Traditional Dairy Products: Khoa, Kulfi, Paneer, Ghee and Butter 3.2 Fermented dairy products- probiotics: Yogurt, Cheese 3.3 Ice cream, Milk powder, Whey, Casein, chocolates and Frozen desserts	K1-K6 K1-K6 K3-K6	6	1-5
4	Maintenance of Dairy Plants 4.1 Cleaning and Sanitization structure and layout of Dairy industry 4.2 Types of dairies: Single product dairy and Composite dairy plant 4.3 Design, layout and location of dairy plant. Observation of a of model dairy plants	K1-K6 K1-K3 K2-K6	8	1-5
5	Post production processes 5.1 Packaging of milk products, By-products of dairy industry 5.2 Effluent treatment and waste disposal in dairy industry 5.3 Documentation in a dairy plant.	K2-K3 K1-K2 K1-K2	9	1-4

	LABORATORY WORK 1. Quality testing for raw milk- Sensory, specific gravity, acidity, COB, MBRT. 2. Testing of Raw milk for presence of adulterants- starch, water, added sugar 3. Standardization of milk. 4. Preparation of indigenous milk products and evaluation of products i) Khoa and types ii) Paneer iii) Kulfi iv) Shrikhand 5. Preparation and evaluation of sweetened condensed milk and evaporated milk. 6. Preparation and evaluation of cheese 7. Preparation of butter using traditional method. 8. Preparation and evaluation of Ice cream. 9. Preparation and evaluation of Milk Chocolate.	K2-K6	39	1-5
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TEXT BOOKS

De Sukumar, Outlines of Dairy Technology, Oxford University Press, New Delhi, 1991

Anantakrishnan. R.B. Singh and P.N. Padmanabhan. , Dairy Microbiology India: Shrikkshmi Publication, 2013.

Dutta Nivedita, Tomasula Peggy, Emerging Dairy Processing Technologies : opportunities for the dairy industry, John Wiley and Sons , 2015

Anantakrishnan. C.P. Khan. A.Q. and P.N. Padmnabhan. The Technology of Milk Processing. India: Shrilakshmi Publication, 2012

BOOKS FOR REFERENCE

Pradeep Parihar and Leena Parihar. Dairy Microbiology, India: Agrobios, 2008

Rabinson. R.K. Modern Technology: Advances in Milk Products, UK: Springer International Publishers, 2012

Walstra. P. Dairy Technology: Principles of Milk Properties and Processes (Food Science and Technology), UK: CRC Press, 2013

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Marks: 50****Duration: 3 hours****THEORY****Marks: 25****Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (All questions to be answered)
B	K2/K2	3	$1 \times 3 = 3$ (1 out of 2 questions internal choice)
	K3/K3	3	$1 \times 3 = 3$ (1 out of 2 questions internal choice)
C	K4/ K4	4	$1 \times 4 = 4$ (1 out of 2 questions internal choice)
D	K5/K5	5	$1 \times 5 = 5$ (1 out of 2 questions)
	K6/K6	5	$1 \times 5 = 5$ (1 out of 2 questions)

PRACTICAL**Marks: 25****Duration: 90 minutes**

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION**End-Semester Examination:****Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (All questions to be answered)
B	K2/K2	6	$2 \times 3 = 6$ (2 out of 4 questions internal choice)
	K3/K3	6	$2 \times 3 = 6$ (2 out of 4 questions internal choice)
C	K4/ K4	8	$2 \times 4 = 8$ (2 out of 4 questions internal choice)
D	K5/K5	10	$1 \times 10 = 10$ (1 out of 2 questions)
	K6/K6	10	$1 \times 10 = 10$ (1 out of 2 questions)

PRACTICAL**Marks: 50****Duration:3 hours**

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/DP36												
III	Course Title: DAIRY PROCESSING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

SENSORY EVALUATION WITH LABORATORY WORK

CODE: 23VF/VM/SE36

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To gain knowledge about sensory evaluation
- To understand the importance of sensory evaluation in food quality.
- To be able to apply the different sensory methods for product evaluation
- To analyze the sensory data and apply the outcomes for product enhancement.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Know about sensory characteristics of different food products and importance of sensory evaluation.	K1
CO2	Understand the concepts related to new product development and the role of sensory analysis to enhance the product quality.	K2
CO3	Apply the different subjective and objective methods of sensory evaluation to existing food products and new formulations.	K3
CO4	Evaluate the products using sensory test and analyze the obtained data.	K4
CO5	Design a sensory lab protocol suitable for the product evaluation and develop new products with scientific product prototype description.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	SENSORY PERCEPTIONS 1.1 Definition and importance of sensory evaluation, perceptions of taste, smell, visual and texture of foods, interactions between these perceptions. Recognition test for the four basic tastes, taste modifiers 1.2 Interactions between colour, flavour and texture, Flavors- Classification of food flavours, Off flavours -presence and development. 1.3 Sensory threshold- concept and types- detection, difference, terminal threshold. 1.4. Basic requisites for conducting sensory analysis – objectives, types of panels, recruitment and training of panel, testing environment, testing time and laboratory features for sensory analysis.	K1-K2 K1-K3 K1-K3	9	1,2
2	NEW PRODUCT DEVELOPMENT 2.1 Need for new food products, idea generation- basis., product development cycle. 2.2 Market research- concept and requirement, methods to perform market survey. 2.3 : Standardization of product, method validation, reliability. Scaling up of the product- methods. Downscaling- concept and requirement. 2.3.1 Product improvements – existing, need for improvement, methods, case studies. 2.3.2 Cost calculation, marketing strategies.	K1-K6 K1-K6 K1-K6 K1-K5 K1-K4	8	1-5
3	SUBJECTIVE AND OBJECTIVE METHODS OF EVALUATION 3.1 Objective methods and sensory methods of evaluation- concept, differences. 3.2 Objective methods of measuring sensory characteristics of food – colour, flavor and texture 3.3 Classification of textural characteristics, glossary of textural terms, concept of rheology and its importance in texture studies. 3.4 Flavour and aroma, definition of flavour, Glossary of flavour terms. Colour and Visual perception of foods.	K1-K3 K1-K3 K1-K3 K1-K3	9	1-4
4	SENSORY TESTING OF FOODS 4.1 Consumer surveys, acceptance testing , Sensitivity – Threshold tests 4.2 Difference tests – Paired comparison, Duo-trio test, Triangle test 4.3 Ranking tests – Two sample difference test, Multiple sample difference tests 4.4 Scoring tests – Numerical and composite scoring	K3-K6	6	1-5

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:**Marks: 50****Duration: 3 hours****THEORY****Marks: 25****Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (All questions to be answered)
B	K2/K2	3	$1 \times 3 = 3$ (1 out of 2 questions internal choice)
	K3/K3	3	$1 \times 3 = 3$ (1 out of 2 questions internal choice)
C	K4/ K4	4	$1 \times 4 = 4$ (1 out of 2 questions internal choice)
D	K5/K5	5	$1 \times 5 = 5$ (1 out of 2 questions)
	K6/K6	5	$1 \times 5 = 5$ (1 out of 2 questions)

PRACTICAL**Marks: 25****Duration: 90 minutes**

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION**End-Semester Examination:****Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (All questions to be answered)
B	K2/K2	6	$2 \times 3 = 6$ (2 out of 4 questions internal choice)
	K3/K3	6	$2 \times 3 = 6$ (2 out of 4 questions internal choice)
C	K4/ K4	8	$2 \times 4 = 8$ (2 out of 4 questions internal choice)
D	K5/K5	10	$1 \times 10 = 10$ (1 out of 2 questions)
	K6/K6	10	$1 \times 10 = 10$ (1 out of 2 questions)

PRACTICAL**Marks: 50****Duration:3 hours**

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/SE36												
III	Course Title: SENSORY EVALUATION WITH LABORATORY WORK												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

NUTRITION THROUGH LIFE CYCLE

CODE: 23VF/VA/NL35

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To learn about the nutritional needs of various age groups.
- To provide an understanding of the basics of menu planning.
- To enable them to plan a menu.
- To acquire knowledge on physiological changes in various stages of life cycle.
- To equip the students to formulate diets based on dietary guidelines.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Identify national nutritional guidelines for various life stages.	K1
CO2	Describe physiological changes in various stages of life cycle.	K2
CO3	Articulate nutritional care plan for all age groups	K3
CO4	Correlate nutritional strategies to combat the nutritional problems.	K4
CO5	Plan menu according to nutritional requirements of different age group.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	INTRODUCTION TO BALANCED DIET AND MENU PLANNING: 1.1 Introduction to balanced diet and basic food groups 1.2 Nutritional food guide – Food Pyramid, My Plate, Food exchange list 1.3 Menu planning- steps and factors affecting menu planning. 1.4 Recommended dietary allowance – reference man and reference women	K1-K3 K2-K3 K2-K3 K2-K3	10	CO 1-5
2	NORMAL DIET AND DIET IN SPECIAL NEEDS: 2.1 Normal Diet – Diet for different age groups. 2.2 Nutrition in special needs – Pregnancy and lactation. 2.3 Planning of diets for pregnant and lactating women.	K1-K4 K1-K4 K2-K6	15	CO 1-5
3	NUTRITIONAL REQUIREMENTS IN INFANCY, CHILDREN AND ADOLESCENTS: 3.1 Requirements and sources of food for infants. 3.2 Changing needs for growing children and adolescents. 3.3 Nutritional problems associated with adolescents –Anemia, Bulimia and Obesity. 3.4 Relevance of packed lunch for children and adolescents.	K2-K5 K2-K5 K2-K5 K2-K5	15	CO 2-5
4	NUTRITIONAL REQUIREMENTS IN ADULTHOOD AND OLD AGE: 4.1 Nutritional requirements during adulthood. 4.2 Health complications associated with Geriatrics. 4.3 Nutritional needs and dietary modifications in old age.	K2-K5 K2-K5 K2-K6	12	CO 2-5

UNIT	CONTENT	CL	Hrs	CO
5	THERAPEUTIC NUTRITION: 5.1 Introduction to therapeutic nutrition. 5.2 Types of therapeutic diets 5.3 Dietary modifications for gluten sensitivity, lactose intolerance, obesity and diabetes.	K1 –K3 K2-K3 K2-K5	13	CO 1-5

TEXTBOOKS

Srilakshmi B., *Dietetics, 6th edition*, New Age International Pvt.Ltd, 2011

Swaminathan. M. *Advanced Textbook on Food and Nutrition* (Vol I and II), Bangalore: Printing and Publishing Co., Ltd., 2015

BOOKS FOR REFERENCE

Bamji MS. Rao NA & Reddy V. *Textbook of Human Nutrition*. Oxford & IBH, 2003

Gibson GR & William.CM. *Functional Foods - Concept to Product*. 2003

Goldberg. I. *Functional Foods: Designer Foods, Pharma Foods*. 1994

Manson. P. *Dietary Supplements*. 2nd Ed. Pharmaceutical Press. 2001

Robert. EC. *Handbook of Nutraceuticals and Functional Foods*. 2nd Ed. Wildman. 2006

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions internal choice)
	K3/K3	10	2×5 = 10 (2 out of 4 questions internal choice)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions internal choice)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions internal choice)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions internal choice)
	K3/K3	20	4×5 = 20 (4 out of 6 questions internal choice)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions internal choice)
D	K5/K5	20	1×20 = 20 (1 out of 2 questions internal choice)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23VF/VA/NL35												
III	Course Title: NUTRITION THROUGH LIFE CYCLE												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	3	3	2	2	2	2	3	3	2	2	2
CO 2	3	3	3	3	3	2	2	2	3	3	3	2	2
CO 3	3	3	3	3	3	2	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

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**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENVIRONMENTAL STUDIES

CODE: 23VF/UC/ES32

CREDITS : 2

L T P : 2 0 0

TOTAL TEACHING HOURS : 26

OBJECTIVES OF THE COURSE

- To create an awareness about current environmental issues
- To educate students on conservation and management of natural resources
- To encourage students to be ecosensitive and ecofriendly

Unit 1

Introduction

6hrs.)

- 1.1 Components of the Environment – Classification and Characteristics of Resources – Renewable and Non – Renewable Resources
- 1.2 Need for Public Awareness in Conservation of Natural Resources
- 1.3 Energy Flow in Ecosystems – Aquatic and Terrestrial – Food Chain and Food Web

Unit 2

Pollution and Socio Economic Aspects of the Environment

(10hrs.)

- 2.1 Types of Pollution – Air, Water, Solid Waste, Noise
- 2.2 Problems - Green House Effect – Depletion of the Ozone Layer – Climate Change
- 2.3 Bio Diversity - Definition - Loss of Bio Diversity – Threats to Biodiversity and Conservation of Biodiversity
- 2.4 Human Behaviour: - Population – Urbanization – Poverty (As Cause and Result of Pollution and Degradation)
- 2.5 Technology: Agriculture and Industry – Deforestation. Misuse and Abuse of the Resources
- 2.6 Effects and Consequences of Environmental Problems

Unit 3

Sustainable Development, Remedies and Policy Implications

(10 hrs.)

- 3.1 Environmental Disasters Natural and Human Made – Bhopal Gas Tragedy – Chernobyl Accident – Fukushima Nuclear Crisis - Gulf War – Love Canal Episode – Tsunami – Volcanic Eruptions
- 3.2 Methods Evolved to Measure and Check Environmental Degradation and Pollution – Carbon Footprint, Carbon Credit, Ecological Footprint, and Ecological Shadow
- 3.3 Environmental Movements in India – Chipko Movement, Narmada Bachao Andolan, Sethu Samudram Project
- 3.4 Environmental Acts – Policy Measures with respect to India
- 3.5 International Environmental Agreement – Stockholm Conference – Montreal Protocol – Rio Meet – Kyoto Conference – UN Conference on Climate Change (Copenhagen)

Field visit

Eco initiatives at the campus: Garbage Segregation and Vermicomposting – Greywater Recycling – Rainwater Harvesting – Solar Powered Lights – Biodiversity

TEXT BOOK

Bharucha, E. *Textbook of Environmental Studies*. Hyderabad: Universities Press, 2005.

REFERENCE BOOKS

Ignacimuthu, S. *Environmental Awareness and Protection*. New Delhi: Phoenic House, 1997.

Jadhav, H and V. M. Bhosale. *Environmental Protection and Law*. New Delhi: Himalaya, 1995.

Odum, E.P. *Fundamentals of Ecology*. U.S.A: W.B. Saunders, 1971.

Mies, M and V. Shiva. *Ecofeminism*, London: Zed Books, 1989.

Singh, H.R. *Environmental Biology*. New Delhi: S.Chand, 2005.

PATTERN OF EVALUATION

Continuous Assessment: (Totally internal)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FOOD ANALYSIS AND INSTRUMENTATION - I

CODE: 23VF/VM/FI46

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide an understanding of the chemical function and properties of major food components.
- To provide an understanding of the chemical interactions of food components, nutritional quality, functional properties and safety of foods.
- To familiarize with the preparation and sampling of food products and conventional methods of food analysis.
- To give an understanding on the laboratory chemical methods used in the analysis of food with a focus on dairy products.
- To be able to evaluate and explain how the highly complex nature of food may result in a multitude of desired and undesired reactions which are controlled by variety of foods.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Gain knowledge regarding different method of analysis would make them skillful for analytical work in research and food industry.	K1
CO2	Comprehend fundamentals of qualitative and quantitative analysis.	K2
CO3	Analyse techniques of various food component.	K3
CO4	Examine the applications of different analytical tools which are used in food industry.	K4
CO5	Make their career in quality control labs in food industry.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	PH AND BUFFERS (THEORY AND PRACTICALS) 1.1 Water activity and its significance in food quality. 1.2 Preparation of solutions, percentage by weight, volume, strength, normality, molarity, ppm, ppb, serial dilution and buffers. 1.3 pH meter – Principle, parts, procedure, types, uses and examples.	K1-K3 K2-K5 K1-K4	6	CO 1-5
2	DETERMINATION OF CARBOHYDRATES AND PROTEINS (THEORY AND PRACTICALS) 2.1 Simple classification of carbohydrates – monosaccharides, disaccharides and polysaccharides. 2.2 Physico – chemical properties and reactions of monosaccharides, disaccharides and polysaccharides. Non – enzymic browning. Modified food starch. 2.3 Simple classification of proteins, Protein Denaturation - Theory of denaturation. 2.4 Amino acids – Physico – Chemical properties of amino acids, Classification of amino acids, Chemical reactivity of amino acids – Reaction with ninhydrin and other reactions.	K1-K4 K1-K5 K1-K4 K1-K5	6	CO 1-5
3	CHARACTERIZATION OF OILS AND FATS (THEORY AND PRACTICALS) 3.1 Simple classification of lipids – Simple, Compound and Derived. 3.2 Fats and Oils – Saturated, Unsaturated and Essential fatty acids. 3.3 Characterization of fats and oils – Water content, Density, Refractive index, Melting point, Solid – Liquid ratio, Titre, Colour, Iodine value, Acetyl value, Acid value, Saponification value, Reichert – meissl value..	K2-K5 K1-K4 K1-K4	10	CO 1-5
4	VITAMIN ANALYSIS (THEORY AND PRACTICALS) 4.1 Estimation of vitamin C in lime/gooseberry/sweet lime. 4.2 Extraction and estimation of Vitamin E in curry leaves. 4.3 Extraction and estimation of carotenes in carrot / papaya	K2-K5 K6 K2-K5	9	CO 1-5

UNIT	CONTENT	CL	Hrs	CO
5	ANALYSIS OF MILK AND MILK PRODUCTS (THEORY AND PRACTICALS) 5.1 Analysis of milk: specific gravity, fat content (Gerber's method), lactose content (volumetric). 5.2 Analysis of condensed milk: Total solids, sucrose, lactose / fructose. 5.3 Analysis of cheese: water content, fat content, ash content, salt content. 5.4 Analysis of butter and curd.	K2-K5 K5 –K6 K5 –K6 K5 –K6	8	CO 1-5
	LABORTAORY WORK 1. Estimation of pH in beverages. 2. Estimation of acetic acid in vinegar. 3. Reactions of carbohydrates – monosaccharides. 4. Reactions of carbohydrates – disaccharides. 5. Reactions of amino acids. 6. Quantitative analysis of carbohydrates – Estimation of glucose by Benedict's Method. 7. Qualitative analysis of proteins (casein and egg albumin). 8. Extraction and estimation of starch. 9. Extraction and estimation of casein. 10. Extraction and estimation of egg albumin. 11. Estimation of acid number in oils/ butter. 12. Determination of saponification value in oils and fats. (Demonstration) 13. Determination of iodine value in oils and fats. 14. Determination of peroxide value in oils and fats. 15. Estimation of vitamin C in lime/gooseberry/sweet lime. 16. Extraction and estimation of Vitamin E in curry leaves. 17. Extraction and estimation of carotenes in carrot / papaya. 18. Specific gravity, fat content and lactose content of milk. 19. Analysis of condensed milk: Total solids, sucrose, lactose / fructose. (Demonstration). 20. Analysis of cheese: water content, fat content, ash content, salt content. (Demonstration). 21. Analysis of butter and curd. (Demonstration).	K2-K6	39	CO 1-5

TEXT BOOKS

Nielsen S. (Eds.). *Introduction to Chemical Analysis of Foods*. Jones & Bartlett. Pomrenz Y & Meloan CE. 2014

Pearson's Chemical Analysis of Foods. 9th Ed. Longman Scientific & Technical. Leo ML. *Handbook of Food Analysis*. 2nd Ed. Vols. I-III. 2004

BOOKS FOR REFERENCE

AOAC International. Official methods of analysis of AOAC International. 17th Ed. 2013

Geetha Swaminathan. Mary George. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham Publication, 2014

Ranganna S. *Handbook of Analysis and Quality Control for Fruit and Vegetable Products*. 2nd Ed. Tata-McGraw-Hill, 2001

Fung, D.Y.C. and Mathews. R. *Instrumental Methods for Quality Assurance in Foods*. New York: Marcel Dekker, Inc. 1991

Pomeranz. Y. and Meloan, C.E. *Food Analysis: Theory and Practice*. 3rd Edition, New York: CBS Publishers and Distributors, 1996

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:
THEORY

Marks: 50
Marks: 25

Duration: 3 hours
Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1×3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1×3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL

Marks: 25

Duration: 90 minutes

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 5 hours

THEORY

Marks: 50

Duration: 2hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL

Marks: 50

Duration:3 hours

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/FI46												
IV	Course Title: FOOD ANALYSIS AND INSTRUMENTATION – I												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FOOD LAWS AND FOOD SAFETY

CODE: 23VF/VM/FF46

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE:

- To give them a clear understanding about the concepts and components of food safety
- To provide a deep understanding of the FSS Act and a few salient regulations governing food safety
- To introduce to the students different laws and regulations impacting food safety
- To highlight the concept and prevalence of food adulteration and teach them skills to identify adulterants
- To acquaint students to the various additives used for specific purposes in food products

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Remember and recall various food laws and regulations applicable for food safety	K1
CO2	Identify specific regulations and laws to be followed and apply it for different purposes pertaining to food safety rights	K2,K3
CO3	Conduct home scale and lab scale tests to examine foods for detection of adulterants, additives	K4
CO4	Evaluate the compliance of foods to standards and report on the safety of the food produced.	K5
CO5	Design the process flow for drafting Sanitation standard operating procedures, HACCP plan, suggest the use of suitable additives while formulating new products.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Food Safety 1.1 Meaning & Concept of food safety – Physical, Microbial, Chemical, Nutritional 1.2 Awareness about pesticide residues and heavy metals in food 1.3 Origin of Food laws in India	K1- K2 K1-K2 K1- K2	7	1-2
2	Food additives 2.1 Definitions of Food Additives, Classification and Functions 2.2 Legitimate uses of Additives in foods, Intentional and Non Intentional additives 2.3 Additives such as preservatives (Class I and Class II preservatives as per FSSAI, antioxidants, emulsifiers, sequesterants, humectants, stabilizers enzymes as food processing aids 2.4 Health effects of food additives	K1-K5 K1- K5 K1-K6 K1-K6	7	1- 5
3	Food Adulteration 3.1 Definition, causes and effects of adulteration 3.2 Common Adulterants in food - Chicory and starch in Coffee Powder, Non permitted Colours in Tea and Dhalsm, Jams, Jellies, Juices, Metanil yellow in Turmeric powder and Kesari Powder, Papaya seeds and rotten pepper in Pepper, Brick powder in Chilli Powder, Washing soda in Jaggery, Vanaspathi in Ghee, Chalk Powder in Salt and Saccharin in Supari 3.3 Rapid detection tools – Detect adulteration with Rapid test (DART)	K1-K3 K1-K6 K1-K6	8	2-4
4	Food Safety Regulation Food Laws – FSS Act 4.1 Food Safety and Standards Act (FSS) 2006 – History (PFA, FPO Acts etc), Principles, Responsibility enforcement, offences & penalties 4.2 FSSAI – laws & Regulation – Licensing & Registration (2011), Additives 4.3 FSSAI- Nutraceuticals/functional food (2016), Food Recall (2017), Packaging and Labelling (2011) 4.4 FSSAI – Import export regulations, Quarantine procedures	K1- K3 K1- K3 K1- K5 K1- K4	8	1-4
5	Food Laws and Regulatory bodies 5.1 BIS Act, Essential Commodities Act, Consumer Protection Act, Agricultural Produce Act (AGMARK) 5.2 Basic Prerequisites – GHPs, GMPs, SSOPs 5.3 HACCP – Concept and importance in food industry, Principles, Implementation of HACCP in Fruit/Vegetable, fermented food, Dairy, Bakery & meat processing industry	K1- K4 K1 – K6 K1-K6	9	1- 5

UNIT	CONTENT	CL	Hrs	CO
	LABORATORY WORK <ol style="list-style-type: none"> 1. Study of sampling techniques from food processing establishments. 2. Estimation of Physical Impurities in Foods 3. Detection of adulterants in Turmeric powder & Chili powder 4. Detection of sodium carbonate in Flours, Sugar, Jaggery 5. Detection of adulterants in milk and milk products 6. Detection of adulterants in ghee, oils 7. Rancidity tests in Fats – Peroxide value 8. Determination of Iodine value in oils 9. Determination of moisture content of packed foods 10. Determination of titratable acidity of packaged foods 11. Report of Project on food safety evaluation in foods sold in the locality 12. Detection of synthetic colours in colored foods 13. Calculation of additive concentration in foods Demonstration/ Optional <ol style="list-style-type: none"> 14. Estimation of Sodium benzoate in processed foods 15. Demonstration of Household methods of detecting adulterants 16. IMVic Test 17. Visit to food analysis lab 	K1-K5	39	1-5

TEXT BOOKS

Food Safety and Standard Act, rules and Regulations (FSSAI), New Delhi: 2015

Prevention of Food Adulteration Act 1954 with Rules 1955

Yasmine Motarjemi Huub Lelieveld (Editors) ,*Food Safety Management A Practical Guide for the Food Industry*, Academic Press, 2013

BOOKS FOR REFERENCE

Lawley, R. Curtis L. and Davis. J. *The Food Safety Hazard Guidebook*, UK: RSC Publishing, 2004

AOAC International. Official methods of analysis of AOAC International. 17th Ed. 2013

Vasconcellos. J A. *Quality Assurance in Food Industry: a Practical Approach*, CRC Press, 2003

Geetha Swaminathan. Mary George. *Laboratory Chemical Methods in Food Analysis*. Chennai: Margham Publication, 2014

Ali. *Food Quality Assurance: Principles and Practices*, CRC Press, 2003

Ranganna S. *Handbook of Analysis and Quality Control for Fruit and Vegetable Products*. 2nd Ed. Tata-McGraw-Hill, 2001

Yasmine Motarjemi,, Huub Lelieveld Dr. (Ed), *Food Safety Management: A Practical Guide for the Food Industry* Academic Press 2014.

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Marks: 50****Duration: 3 hours****THEORY****Marks: 25****Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1×3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1×3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL**Marks: 25****Duration: 90 minutes**

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION**End-Semester Examination:****Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2×3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2×3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/FF46												
IV	Course Title: FOOD LAWS AND FOOD SAFETY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	3	3	3	3	3	3	3	2
CO 2	3	3	3	2	2	2	3	2	3	3	3	3	2
CO 3	3	3	3	2	3	2	3	2	3	3	2	3	3
CO 4	3	3	3	3	2	2	3	2	3	3	3	3	2
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FLAVOUR CHEMISTRY AND TECHNOLOGY

CODE: 23VF/VE/FL45

CREDITS: 5

L T P: 5 0 5

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the science behind the art of flavouring foods, their analysis and the problem of off-flavours
- To obtain knowledge of flavours for specific applications and legal aspects on use of flavours in food products
- Differentiate different classes of flavor compounds, their flavors, sources and interactions in foods.
- Classify different methods of flavor trapping, isolation and application.
- Communicate different methods of analysis for identification of flavor compounds and compare their applications, advantages and disadvantages.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Know about the types of flavours and their sources.	K1, K2
CO2	Understand the methods of flavour production, extraction, flavour formulation and identification of presence of off flavours.	K2
CO3	Apply flavour formulations to different processed food product.	K3
CO4	Analyse flavour formulations to their purity using subjective, objective and sensory methods of evaluation.	K4
CO5	Select a flavour formulation suitable for a particular products and create new flavour combinations.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	HRS	CO
1	INTRODUCTION 1.1 Sources of flavours (natural, processed and added) 1.2 Flavour composites (natural, semi-synthetic and synthetic) 1.3 Biogenesis of flavours in food – natural and processed foods (Maillard reaction and Lipid Oxidation) 1.4 Chemicals in flavours	K1-K2 K1-K2 K1-K3 K1-K3	10	1 -3
2	FLAVOUR TECHNOLOGY 2.1 Types of flavours, 2.2 Flavours generated during processing – reaction flavours, flavour composites, 2.3 Stability of flavours during food processing 2.4 Spices and spice-based products as flavours	K1-K3 K1-K4 K1-K4 K1-K4	14	1-3
3	FORMULATIONS 3.1 Formulations of flavours, adulteration, Flavour emulsions 3.2 Flavours production in fermented foods, Off-flavours in foods 3.3 Extraction techniques of flavours, flavour emulsions; essential oils and oleoresins	K1-K4 K1-K4 K1-K4	12	1-4
4	ANALYSIS 4.1 Analysis of flavours – subjective and objective 4.2 Analysis of different types of flavours such as whole and powdered spices and essential oils 4.3 Plantation crops as flavours tea, coffee, cocoa and vanilla	K1-K4 K1-K4 K1-K4	17	2-4
5	EVALUATION 5.1 Sensory evaluation of flavours, flavours and legal issues 5.2 Monitoring flavours during food processing 5.3 Authentication of flavours Industrial visit to flavour industry	K1-K5 K1-K5 K1-K5	12	1-5

TEXT BOOKS

Ashurst PR. *Food Flavorings*. 3rd Ed. Blackie., 2006

Burdock GA. *Fenaroli's Handbook of Flavor Ingredients*. 5th Ed. CRC Press, 2004

BOOKS FOR REFERENCE

Deibler D & Delwiche J. *Handbook of Flavor, Characterization: Sensory Analysis, Chemistry and Physiology*. Marcel Dekker, 2004

Heath HB & Reineccius G. *Flavor Chemistry and Technology*. AVI Publication, 1996

Taylor A. *Food Flavour Technology*. Sheffield Academic Press. 2002

Kurt Bauer, Dorothea Garbe, Horst Surburg *Common Fragrance and Flavor Materials*, Wiley-VCH, 2010

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Marks: 50****Duration: 1.5 hour**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	10	2 x 5= 10 (2 out of 4 questions internal choice)
	K3/K3	10	2 x 5=10 (2 out of 4 questions internal choice)
C	K4/ K4	10	1×10 = 10 (1 out of 2 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions internal choice)

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 3 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	20	10 × 2= 20 (All questions to be answered)
B	K2/K2	20	4 x 5= 20 (4 out of 6 questions internal choice)
	K3/K3	20	4 x 5 = 20 (4 out of 6 questions internal choice)
C	K4/ K4	20	2 × 10= 20 (2 out of 4 questions internal choice)
D	K5/K5	20	1×20=10 (1 out of 2 questions internal choice)

Mapping of Course Outcomes (COs)**to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VA/FL45												
IV	Course Title: FLAVOUR CHEMISTRY AND TECHNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	3	3	2	3	3	2	3	2
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FOOD PACKAGING

CODE:23VF/VE/FP45

CREDITS: 5

L T P: 5 0 5

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To acquaint the students with packaging methods,
- To be aware of the types of packaging materials and packaging machineries and techniques
- To be acquainted with the quality tests required for the packaging material
- To develop environment friendly packaging materials.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Know about the importance of food packaging responsible for extending shelf life.	K1, K2
CO2	Understand the types of packaging material utilized for food packaging	K2, K3
CO3	Select appropriate packaging material required for different types of foods.	K4
CO4	Evaluate the packaging material for quality parameters.	K5
CO5	To develop environmentally friendly food packaging material using natural materials, and edible in nature.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Packaging 1.1 Definition, Need and History of food packaging. 1.2 Objectives and functions of packaging and packaging materials 1.3 Types of packaging- Primary, Secondary and Tertiary, packaging requirements	K1-K2 K1-K2 K1-K3	10	CO1 - CO3
2	Packaging Materials 2.1 Paper: corrugated fiber board, flexible laminates; Glass containers, types of closures, Metals: Tin plate containers, Tin Free Steel (TFS), types of Cans, Aluminum Containers 2.2 Plastics: types of plastic films, laminated plastic materials, edible films, biodegradable plastics BPA in plastics	K1-K3 K1-K3	14	CO1- CO3
3	Properties of packaging materials 3.1 Tensile strength, bursting strength, tearing resistance, puncture resistance, 3.2 Impact strength, tear strength; migration test, Barrier properties – factors affecting permeability, permeability coefficient, gas transmission rate (GTR) and its measurement, water vapour transmission rate (WVTR) and its measurement; 3.3 Prediction of Shelf life of foods, selection and design of packaging material for different foods	K1-K4 K1-K4 K1-K4	12	CO1- CO4
4	Packaging of food products 4.1 Food packaging systems: Different forms of Packaging such as rigid, semi rigid, flexible forms 4.2 Packaging system for dehydrated foods, frozen foods, dairy products, fresh fruits and vegetables. 4.3 Packaging of Meat, Poultry and Sea Foods.	K1-K2 K1-K3 K1-K3	17	CO2- CO4
5	Packaging equipment 5.1 Packaging equipment Vacuum, CA and MA packaging equipment; gas packaging equipment 5.2 Seal and shrink-packaging; form and fill sealing; Aseptic packaging systems; bottling; carton making 5.3 Recent trends in Packaging-Packaging material from plant sources-Nano particles in food packaging, edible films, biodegradable packaging.	K1-K2 K1-K2 K1-K6	12	CO1- CO5

TEXT BOOKS

Robertson. Gordon L. Food Packaging: Principle and Practice, U.K.: CRS Press, 2012
 Handbook of Food Packaging Technology, EIRI, 2014

BOOKS FOR REFERENCE

Walter Soroka and CPP. Fundamentals of Packaging Technology, U.S.A.: Institute of Packaging Professional, 2009

D'Mello, J P F. Food Safety Contaminants and Toxins, Oxford University Press, 2003

Early R. Guide to Quality Management Systems for Food Industries. Blackie Academic.1995
Foods, Kluwer Academics / Plenum Publishing, 2004

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Marks: 50

Duration: 1.5 hour

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	10	2 x 5= 10 (2 out of 4 questions internal choice)
	K3/K3	10	2 x 5=10 (2 out of 4 questions internal choice)
C	K4/ K4	10	1×10 = 10 (1 out of 2 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions internal choice)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10 × 2= 20 (All questions to be answered)
B	K2/K2	20	4 x 5= 20 (4 out of 6 questions internal choice)
	K3/K3	20	4 x 5 = 20 (4 out of 6 questions internal choice)
C	K4/ K4	20	2 × 10= 20 (2 out of 4 questions internal choice)
D	K5/K5	20	1×20=10 (1 out of 2 questions internal choice)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VA/FP45												
IV	Course Title: FOOD PACKAGING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	2	3	3	2	3	2
CO 2	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 3	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	1

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO COMPUTER SKILLS

CODE: 23CS/US/IC44

CREDITS: 4

L T P: 2 0 2

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce word processing.
- To provide the students understanding of spreadsheets.
- To equip the students with skills and knowledge necessary to create a presentation.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the tools and techniques in word, spreadsheet and presentation	K1
CO2	explain the options available in word processing, spreadsheet and presentation	K2
CO3	apply the techniques in creating a document, spreadsheet and presentation	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Word Processing Text Editing, Text tools, Character and paragraph formatting, Tabs and lists, Using Tables, Mail Merge, Working with objects – Word Art, Clip Art, Pictures, Built-in and custom styles, Table of contents, Templates, Securing documents. Tool: MS-Word	K1-K3	10	CO1-3
2	Spreadsheet Data entry, Using formulae and functions, Formatting data, Creating charts, Lists, Sorting, filtering, Working with forms, Grouping, Linking and Protecting sheets, Data Validation, Printing spreadsheets. Tool: MS-Excel	K1-K3	8	CO1-3

UNIT	CONTENT	CL	HRS	CO
3	Presentation Creating slides, Using bullets, Formatting slides, Including word art, Slide templates, Drawing tools, Selecting and grouping objects, Viewing slides and handouts, Transitions, Spell check, Master Slide, Rehearse timings, Adding sound. Tool: MS-PowerPoint	K1-K3	8	CO1-3
4	Word Processing and Spreadsheet – Practicals 4.1 Create an Application with different formatting styles.. 4.2 Create Tables, using different formatting styles. 4.3 Create word documents implementing Clip art, Word art and Auto shapes. 4.4 Create Spreadsheets with various formatting styles. 4.5 Create Spreadsheet to include formula and implement the same using different graphs and charts. 4.6 Create a spreadsheet that incorporates data validation.	K1-K3	16	CO1-3
5	Presentation 5.1 Create a presentation that displays a clear, logical sequence. 5.2 Create a presentation that incorporates animations. 5.3 Create bulleted slides and slides that incorporate word art. 5.4 Create a presentation that incorporates drawing tools	K1-K3	10	CO1-3

BOOKS FOR REFERENCE

Curtis Frye D. Microsoft Excel 2010 Step by Step. Microsoft Press, 2010.
 Faithe Wempen. Microsoft PowerPoint 2010 Bible. John Wiley & Sons, 2010.
 Herb Tyson. Microsoft Word 2010 Bible. John Wiley & Sons, 2010.

PATTERN OF EVALUATION

Continuous Assessment: (Totally internal)
 All K-levels are evaluated

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

COMMUNITY NUTRITION

CODE: 23VF/VM/CN56

CREDITS: 6

L T P: 6 0 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enable students to understand community nutrition status in India.
- Gain knowledge on fortification of foods and National effort in ensuring nutrition for all.
- Understand the process of fortification.
- To provide awareness on the National Nutritional Programme to combat nutritional disorders.
- To provide better understanding of public health nutrition with a focus placed on the importance of building a sustainable, nutritious and healthy food supply for all.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Understand the significance and scope of public nutrition.	K1
CO2	Identify the needs of the community and develop programmes.	K2
CO3	Conduct household food security assessments using food security scales.	K3
CO4	Apply nutrition intervention programmes to overcome epidemic of communicable and non-communicable diseases.	K4
CO5	Analyze and apply research findings for the use of societal needs and contribute to nation building strategies.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	COMMUNITY HEALTH 1.1 Definition and brief study of community, family, village and block Demography, Core functions and scope of community nutrition. 1.2 Malnutrition – Causes, Ecological factors, Effects of malnutrition – Effects of under and over nutrition. 1.3 Protein deficiency disorders – PEM, Kwashiorkor, Marasmus – incidence, prevalence and epidemiology	K1-K3 K1-K3 K1-K3	15	1-5
2	ASSESSMENT OF NUTRITIONAL STATUS 2.1 Indirect methods – Indicators of Health and Nutrition (<i>Infant Mortality Rate</i> - IMR, <i>Total Mortality Rate</i> - TMR, <i>Maternal Mortality Rate</i> - MMR). 2.2 Direct methods – a) Anthropometry, b) Biochemical and c) Clinical methods. 2.3 d) Dietary methods - nutrient intake analysis, dietary assessment in special populations and specific situations, dietary reference intakes, associations with nutrient deficiencies	K1-K4 K1-K4 K1-K4	15	1-5
3	ASSESSING FOOD AND NUTRITION SECURITY 3.1 Definition and assessment schedules, National and Household Food Security. 3.2 Factors affecting Food Security System. 3.3 National and International systems to improve food security FAO, CARE, NIPCCD, NIN, CFTRI, FCI, Their roles and functions ICDS, NNACP, National IDD control Program, Mid Day meal schemes.	K2-K5 K2-K5	17	1-5
4	FOOD FORTIFICATION 4.1 Food fortification – Needs, objective, characteristics of Fortificants and method of fortification. 4.2 Fortification of bread, noodles, biscuits, breakfast cereals, snacks and beverages. 4.3 Fortification with Iron, Vitamin A, Vitamin D and Iodine.	K2-K5 K2-K5 K2-K5	18	1-5
5	FORMULATION OF FORTIFIED FOODS 5.1 Preparation of nutritious health mixes. 5.2 Preparation of Iron rich diet, high protein diet. 5.3 Preparation of dehydrated processed foods using indigenous food. 5.4 Preparation of Low cost weaning foods. 5.5 Identification of vulnerable women and children – Using direct nutritional assessment methods.	K4 –K5 K4 –K5 K4 –K5	13	1-5

TEXT BOOKS

Srilakshmi. B. *Nutrition Science*, New Delhi: New Age International Pvt., Ltd, 2014 Venkataiah. S.D. *Nutrition Education*. New Delhi. Anmol Publication Pvt, Ltd. 2014

BOOKS FOR REFERENCE

Mahtab S.Bamji. Prasad Rao, N.Vinodini Reddy. *Textbook of Human Nutrition*, Second Edition, Oxford and IBH Publishing Co. Pvt. Ltd. 2003

Mishra. R.C. *Health and Nutrition Education*, New Delhi: A.P.H. Publishing Corporation, 2005
Park K. *Park's Textbook of Preventive and social medicine*, 18th edition, Jabalpur: M/S Banarasids Bhanot, Jabalpur 2005

Swaminathan. M. *Handbook of Food and Nutrition*, Fifth Edition, Bangalore: Bangalore Printing and Publishing Co.Ltd. 2012

Boyle, Community Nutrition in Action, An Entrepreneurial approach, 6th Edn,Thomson/Wadsworth, USA, 2013

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions internal choice)
	K3/K3	10	2×5 = 10 (2 out of 4 questions internal choice)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions internal choice)
D	K5/K5	10	1× 10 = 10 (1 out of 2 questions internal choice)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions internal choice)
	K3/K3	20	4×5 = 20 (4 out of 6 questions internal choice)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions internal choice)
D	K5/K5	20	1×20 = 20 (1 out of 2 questions internal choice)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/CN56												
V	Course Title: COMMUNITY NUTRITION												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	3	3	3	3	3	3	3	3
CO 2	2	3	3	2	2	2	3	3	3	3	3	3	3
CO 3	3	3	3	2	3	2	3	3	3	3	2	3	2
CO 4	3	3	3	3	2	2	3	2	3	3	3	3	3
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FOOD ANALYSIS AND INSTRUMENTATION - II

CODE: 23VF/VM/FI56

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To familiarize with detail principle, instrumentation, operation and applications of molecular spectroscopic techniques (Colorimeter, UV – VIS and IR).
- To categorize and understand the principle behind various separation techniques (Chromatography) and their instrumentation.
- To differentiate between principle, instrumentation and operation of flame photometer, refractrometer and viscometer.
- To familiarize with the conventional analysis of food products for quality control in food industry, their role on nutritional labeling.
- To understand fundamentals of qualitative and quantitative analysis concept.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Recognize the importance of wavelength / emission spectrum in spectro – analytical instruments.	K1
CO2	Carry out comparative analysis of given sample with standard sample using chromatographic instruments.	K2
CO3	Examine and determine the properties and concentration of a given sample using flame photometer, refractrometer and viscometer.	K3
CO4	Describe the testing and calibration method for various analytical instruments.	K4
CO5	Acquire analytical instrumentation knowledge on collection and analysis of data for implementing small in – house projects.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	SPECTROSCOPIC TECHNIQUES (THEORY AND PRACTICALS) 1.1 Principles of colorimetry and spectrophotometry. Instrumentation / working of UV/Vis Spectrophotometer (block diagram). 1.2 Estimation of iron, Estimation of Vitamin A 1.3 Estimation of Cholesterol 1.4 Determination of Total Carbohydrates in Foods Colorimetrically – Anthrone and DNS method.	K1-K3 K1-K3 K1-K3 K1-K4	6	CO 1-5
2	CHROMATOGRAPHY (THEORY AND PRACTICALS) 2.1 Principle, theory and applications of Chromatographic techniques, application in food industry. 2.2 Separation and identification of amino acids / sugars by paper chromatography Separation of carotenoids by Thin layer chromatography / column chromatography 2.3 Principle, instrumentation and applications of GC, HPLC.	K1-K4 K1-K4 K1-K4	6	CO 1-5
3	TECHNIQUES FOR ESTIMATION OF MINERALS (THEORY AND PRACTICALS) 3.1 Principle and instrumentation of Flame photometry. 3.2 Estimation of calcium, sodium and phosphorus by Flame photometry. 3.3 Refractometry and Viscometry –Determination of refractive index using Abbe's refractometer.	K2-K5 K2-K5	10	CO 1-5
4	MISCELLANEOUS METHODS (THEORY AND PRACTICALS) 4.1 Thermal methods in Food analysis 4.2 Principle and instrumentation of Fluorimetry - Estimation of Thiamine /riboflavin. 4.3 Determination of Moisture/ash/fibre content. 4.4 Nutrient analysis of food.	K2-K5 K6 K2-K5 K6	9	CO 1-5
5	WATER ANALYSIS (THEORY AND PRACTICALS) 5.1 Importance of water in food processing. 5.2 Water quality monitoring – impact on food safety. 5.3 Determination of salt content in brine (Mohr method) used in canned products. 5.4 Isolation and Identification of synthetic food colours in sweets, confectionery and beverages.	K2-K5 K5 –K6 K5 –K6 K5 –K6	8	CO 1-5

UNIT	CONTENT	CL	Hrs	CO
	LABORTAORY WORK 1. Estimation of Vitamin – A using colorimeter. 2. Estimation of cholesterol using colorimeter. 3. Estimation of Iron using spectrophotometer. 4. Determination of Total Carbohydrates in Foods Colorimetrically – Anthrone and DNS method. 5. Separation and identification of amino acids by paper chromatography (Demo). 6. Estimation of calcium by flame photometer. 7. Estimation of potassium by flame photometer. 8. Estimation of sodium by flame photometer. 9. Determination of refractive index using refractometry. 10. Estimation of thiamine using fluorimetry. 11. Estimation of riboflavin using fluorimetry. 12. Determination of moisture in food samples. 13. Determination of ash content in food samples. 14. Determination of fibre content in food samples (Demo). 15. Nutritional profile of food samples. 16. Determination of salt content in brine (Mohr method) used in canned products. 17. Isolation and Identification of synthetic food colours in sweets, confectionery and beverages.	K2-K6	39	CO 1-5

TEXT BOOKS

Nielsen S. (Eds.). *Introduction to Chemical Analysis of Foods*. Jones & Bartlett. Pomrenz Y & Meloan CE. 2014

Pearson's Chemical Analysis of Foods. 9th Ed. Longman Scientific & Technical. Leo ML. *Handbook of Food Analysis*. 2nd Ed. Vols. I-III. 2004

BOOKS FOR REFERENCE

AOAC International. Official methods of analysis of AOAC International. 17th Ed. 2013

Geetha Swaminathan. Mary George. *Laboratory Chemical Methods in Food Analysis*. Chennai:

Margham Publication, 2014

Ranganna S. *Handbook of Analysis and Quality Control for Fruit and Vegetable Products*. 2nd Ed. Tata-McGraw-Hill, 2001

Fung, D.Y.C. and Mathews. R. *Instrumental Methods for Quality Assurance in Foods*. New York: Marcel Dekker, Inc.1991

Pomeranz. Y. and Meloan, C.E. *Food Analysis: Theory and Practice*. 3rd Edition, New York: CBS Publishers and Distributors, 1996

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Marks: 50****Duration: 3 hours****THEORY****Marks: 25****Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1×3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1×3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL**Marks: 25****Duration: 90 minutes**

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION**End-Semester Examination:****Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2×3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2×3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/FI56												
V	Course Title: FOOD ANALYSIS AND INSTRUMENTATION – II												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 2	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENTREPRENEURIAL INITIATIVES

CODE: 23VF/VM/EI56

CREDITS: 6

L T P: 6 0 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To instill the spirit of entrepreneurship among youth and develop entrepreneurial initiatives
- To identify challenges, issues and different factors that affect entrepreneurial development.
- To enhance self-employment opportunities.
- To gain awareness on innovation and giving different dimensions to food products
- To train in the preparation of business project proposal

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	To understand the concepts, principles and significance of management and entrepreneurship.	K1
CO2	Acquire the knowledge to conduct project – planning activities that accurately forecast project costs, timelines & quality.	K2
CO3	Develop strong working knowledge of ethics and professional responsibility.	K3
CO4	Proficiently recognize and seize diverse opportunities for financial gain.	K4
CO5	Create entrepreneurship skills to form their own business.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	INTRODUCTION TO ENTREPRENEURSHIP 1.1 Need for Entrepreneurship Education- Entrepreneurship and Entrepreneur: Definition and Concept. 1.2 Characteristics and importance of Entrepreneurship and Entrepreneur 1.3 Classification and Functions of Entrepreneurs. 1.4 Studies on Indian Entrepreneurship Model.	K1-K3 K1-K4 K1-K4 K2-K5	13	CO 1-5
2	ENTREPRENEURIAL MOTIVATION 2.1 Innovation and Initiation of Entrepreneurial Venture – Desire, Decision and Formulation. 2.2 Study of Entry Barriers to Entrepreneurship – Steps to overcome the barriers. 2.3 Case Studies	K1-K4 K2-K5 K4 –K6	13	CO 1-5
3	WOMEN ENTREPRENEURSHIP 3.1 Empowerment of Women through enterprise. 3.2 Factors governing Women Entrepreneurship. 3.3 Schemes for Women Entrepreneurs and Biotech park for women.	K2-K5 K2-K5 K2-K6	17	CO 1-5
4	SELECTION OF PRODUCTS AND BUSINESS PLANNING 4.1 Identification and evaluation of products based on idea, market demand, competition, availability of raw material and production feasibility. 4.2 Financial and Business Collaboration – Business Project Proposal – Steps involved in Planning and Processing, structure of the Project report. 4.3 Food Business Management: Business idea generation, Challenges, Sales promotion techniques, Scaling up from pilot plant/ incubator stage. 4.4 Preparation of Business Project Proposal.	K2-K5 K2-K5 K2-K5 K6	22	CO 1-5
5	INDUSTRIAL VISIT AND INTERACTION 5.1 Case studies on Indian Entrepreneurs. 5.2 Case studies of Women Entrepreneurs. 5.3 Visit to food sector enterprises and interaction with entrepreneurs.	K4 –K6 K4 –K6 K4 –K6	13	CO 1-5

TEXT BOOK

Sangram Keshari Mohanty. *Fundamentals of Entrepreneurship*. New Delhi: Prentice Hall of India Pvt., Ltd. 2013.

BOOKS FOR REFERENCE

Anand Saxena. *Entrepreneurship Motivation, Performance and Rewards*, New Delhi: Deep and Deep Publications Pvt., Ltd. 2012.

David H. Holt. *Entrepreneurship – New Venture Creation*, New Delhi, Prentice Hall of India Pvt., Ltd. 2012.

Madhurima Lall and Shikha Sahai. *Entrepreneurship*, New Delhi: Excel Printers, 2008.

Robert D. Hisrich. Michael P. Peters and Dean A. Shepherd. *Entrepreneurship*, 6th ed., New Delhi, Tata McGraw Hill Publication Co. Ltd. 2007.

Saini. J.S. and B.R. Gurjar. *Entrepreneurship and Education - Challenges and Strategies*, Jaipur: Rawat Publications, 2011.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions internal choice)
	K3/K3	10	2×5 = 10 (2 out of 4 questions internal choice)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions internal choice)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions internal choice)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions internal choice)
	K3/K3	20	4×5 = 20 (4 out of 6 questions internal choice)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions internal choice)
D	K5/K5	20	1×20 = 20 (1 out of 2 questions internal choice)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/EI56												
V	Course Title: ENTREPRENEURIAL INITIATIVES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	2	3	3	3	3	3	3	3	3	3	3
CO 2	2	3	3	2	2	2	3	3	3	3	3	3	3
CO 3	3	3	3	2	3	2	3	3	3	3	2	3	2
CO 4	3	3	3	3	2	2	3	2	3	3	3	3	3
CO 5	3	3	3	3	2	2	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

POST HARVEST TECHNOLOGY

CODE: 23VF/VM /PH56

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To give an understanding of the importance and need of post-harvest technology in Indian agriculture industry.
- To introduce the factors causing post -harvest losses.
- To provide knowledge on the physiological changes seen in horticultural produce before and after harvest.
- To acquaint students to maturity indices and harvesting techniques of produce.
- To highlight the technologies for storage and processing of horticultural produce.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Explain the advantages and technologies for the post-harvest assessment and management of horticulture produce.	K1
CO2	Understand and apply the concepts and technologies required for effective processing, storage and packaging for preventing losses and extension of shelf life.	K2/K3
CO3	Assess and differentiate the produce based on their nature and quality characteristics and recommend suitable measures for effective post-harvest management.	K4
CO4	Evaluate and judge the maturity of and suggest ways to minimize losses during and after harvesting.	K5
CO5	Device ways to retain the quality of produce and extend its shelf - life using the right modern technology.	K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Post Harvest Technology 1.1 Definition, need for Post-Harvest Technology, Importance for PHT and scope, Objectives of PHT 1.2 Post harvesting Food Pipeline 1.3 Stages of losses in the Food Pipeline of different food types 1.4 Factors Causing Harvest Losses – Biological, environmental, Pre-harvest	K1- K2 K1- K2 K1- K4 K1– K4	8	1-3
2	Physiological changes in produce 2.1 Respiration – Classification - climacteric and non-climacteric 2.2 Ripening – Effect of ethylene- changes 2.3 Artificial ripening- guidelines 2.4 Controlled ripening - Ripening rooms	K1- K2 K1 –K5 K1- K3 K1- K4	8	1-5
3	Harvesting and Quality Requirements 3.1 Maturity Indices for harvesting – Evaluation and Judging harvest readiness and quality 3.2 Harvesting- advantages and disadvantages of Mechanical and Hand Harvesting 3.3 On-farm primary processing technologies for grains – threshing, pounding, dehulling,, fruits and vegetables - curing, degreening, waxing	K1- K6 K1-K4 K1-K3	5	1-5
4	Post-Harvest Technology Procedures 4.1 Precooling – Advantages-Factors-Types 4.2 Storage Technologies – Traditional-Modern low temperature (Chilling and Freezing) – optimum storage conditions 4.3 Sprouting during storage – Suppressants and its application 4.4 Study of small and medium size machineries used for post-harvest processing	K1-K4 K1- K6 K1-K4 K1- K6	8	1-5
5	Introduction to Modern Post Harvesting Technologies 5.1 Modern technologies in Irradiation, Canning and Thermal processing 5.2 Trends in Food packaging and ecofriendly considerations of Food Packaging and Presentation 5.3 Role of supply chain management in reducing post-harvest losses	K1-K6 K1-K6 K1- K3	10	1-5

UNIT	CONTENT	CL	Hrs	CO
	LABORATORY WORK <ol style="list-style-type: none"> 1. Effect of pretreatments on preservation of fruits and vegetables 2. Effect of environmental conditions on post-harvest sprouting of grains 3. Enzymatic Browning in fruits and vegetables 4. Evaluation of juice content and brix acid ratio of citrus fruits 5. Determination of starch content in foods using starch iodide test 6. Measurement of the physical characteristics of fruits and vegetables 7. Determination of specific gravity of produce using weighment method 8. Physiological losses during storage 9. Determination of Tannins in fruits 10. Field visit 	K1- K6	39	1-5

TEXT BOOKS

Rathore N S, G K Mathur, S Schasta, 'Post-Harvest Management and Processing of Fruits and Vegetables' New Delhi. Indian Council of Agriculture Research, 2012

Amalendu Chakraverty, Arun S. Mujumdar, Hosahalli S. Ramaswam, 'Handbook of Postharvest Technology: Cereals, Fruits, Vegetables, Tea, and Spices, Marcel Dekker, New York, 2003

BOOKS FOR REFERENCE

Singh I S, Post-Harvest Handling and Processing of Fruits and Vegetables, New Delhi, Westville Publishing House 2009

Chavan U D, Postharvest Management and Processing Technology: Cereals, Pulses, Oilseeds, Fruits and Vegetables, Daya Publishing, India, 2012

Sasi Kumar R, Postharvest Technology of Fruits and Vegetables, Astral International (P) Ltd. New Delhi, 2016

Sharma, S.K. (2010). Postharvest management and processing of fruits and vegetables. New India Publishing Agency, New Delhi. 3. Sharma, S.K. and Nautiyal, M.C. (2009). Postharvest technology of horticultural crops. New India Publishing Agency, New Delhi.

PATTERN OF ASSESSMENT**No Unit should be left out.****Continuous Assessment:****Marks: 50****Duration: 3 hours****THEORY****Marks: 25****Duration: 90 minutes**

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1× 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1× 3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL**Marks: 25****Duration: 90 minutes**

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION**End-Semester Examination:****Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2× 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2× 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/PH56												
V	Course Title: POST HARVEST TECHNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	2	2	2	3	3	2	1	2
CO 2	3	3	3	3	3	2	2	2	3	3	3	2	2
CO 3	3	3	3	3	3	2	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	2	3	3	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Soft Skills offered by the Department of Psychology to students of
B.Voc Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

FUNDAMENTALS OF HUMAN BEHAVIOUR

CODE: 23PY/US/HB52

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE:

- To help students understand basic principles of psychology
- To create self-awareness and understanding of various aspects of human behaviour
- To acquaint the learner with the complexities of individual differences

COURSE LEARNING OUTCOMES:

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	identify and recall important notions in psychology	K1
CO2	elaborate on the understanding of human behavior from a scientific perspective	K2
CO3	apply psychological principles to understanding self and others	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition of psychology and ABCs of human behaviour 1.2 Factors affecting human behaviour 1.3 Methods of studying human behaviour- introspection, observation, interview, case study, questionnaire, experimental method 1.4 Psychological professions and areas of specializations	K1- K3	10	CO 1-3
2	Self 2.1 Definition and understanding the self: William James 2.2 Self-awareness, self-introspection 2.3 Enhancing the self or self-regulation	K1- K3	8	CO 1-3
3	Individual differences in human behaviour 3.1 Biological factors: temperaments 3.2 Psychological factors: personality (big 5 model), intelligence 3.3 Socio-cultural factors: individualist vs collectivist cultures	K1- K3	8	CO 1-3

BOOKS FOR STUDY

Baron, A. Robert. *Psychology*. New Delhi, Prentice Hall, 2007.

Baron. A. *Social Psychology*. Delhi, India, Pearson Education India, 2009.

Bowdon-Tom Butler. *50 Psychology Classics*. London, Nicholas Brealey, 2008.

WEB RESOURCES

<https://shorturl.at/uAQU5>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FOOD QUALITY ASSURANCE

CODE: 23VF/VM/FQ66

CREDITS: 6

L T P: 6 0 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To familiarize students with the concept of Quality and its assurance from every level of food processing chain
- To give an understanding on the Quality Management concepts in Food Industry.
- To explain the role of standards promotion systems in assurance of quality food processes.
- To acquaint students with knowledge on some food safety and quality programs and environment Management systems in food industry.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Explain their understanding of food quality attributes, systems, regulations and certification bodies	K1
CO2	Summarize on the quality assurance certifications and regulations applicable to the food industry	K2
CO3	Differentiate procedures for assurance and control of Quality and apply principles of auditing during quality evaluations	K3
CO4	Apply preventive and control measures to minimize hazards and maintain food quality	K4
CO5	Advice and execute plans to FBO's for obtaining food quality certifications and assist consumers on Quality food purchases.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Concept of Quality and Assurance 1.1 Quality attributes – physical, chemical, nutritional, microbial, and Sensory. Importance and functions of quality control; Principles of quality control 1.2 Tips to consumers for buying safe food Evaluation techniques, Quality Control versus Quality Assurance 1.3 Quality assurance for raw material, in process and processed products, safe handling and hygiene requirements for personnel and equipment	K1- K4 K1- K3 K1 – K4	20	1-4
2	Quality Management Tools 2.1 Definition, scope, significance and objectives of Food Quality Management 2.2 TQM – concept and need for quality, components of TQM, Tools to aid in Quality Management 2.3 Proficiency testing for product quality, six sigma concept, continuous upgradation and improvement of productivity	K1- K2 K1 – K5 K1- K3	15	1-5
3	Accreditation & Auditing 3.1 Accreditation- National and International Accreditation bodies Role, Need and procedure 3.2 Auditing- Quality audit - Internal & external audit, 1 st , 2 nd , 3 rd party audit 3.3 Regulation – Audit Process, Frequency, Grading, Reporting 3.4 Roles of a Quality and Safety manager	K1-K3 K1-K4 K1 – K5 K1- K5	12	1-5
4	Quality Assurance Certifications and Regulations 4.1 Indian and International quality systems and standards – ISO 9000 (QMS), Codex Alimentarius Commission, FAO, WHO, WTO Agreement on SPS and TBT, JECFA, BRC 4.2 Other relevant National Bodies- APEDA, MPEDA, Spices Board, BIS, Intellectual Property Rights (IPR) 4.3 Voluntary product certifications – AGMARK, BIS	K1-K4 K1- K5 K1-K3	13	1-5
5	Food Safety systems and Initiatives 5.1 ISO 22000 (FSMS), FSSC-FSSAI 5.2 National Programs for promotion of safe wholesome food – Eat Right India, Clean Street food hub, RUCO, BHOG etc), FoSTAC 5.3 – Environmental monitoring - Carbon food printing of food processing industry	K1-K5 K1-K6 K1-K3	18	1-5

TEXT BOOKS

Andres Vasconcellos J. 2015, Quality Assurance for food industry- a practical approach, New Delhi. CRC Press.

Sara Mortimore and Carol Wallace, 2013 HACCP - A practical approach, 3rd edition, Chapman and Hall, London.

WEBSITES

official website of ISO, BRC, CAC and BIS.

Food Safety and Standards Act, 2006: Ministry of Food Processing Industries (MOFPI)

<http://www.mofpi.nic.in>

BOOKS FOR REFERENCE

Kher, C.P., Quality Control for food industry, ITC Publishers, Geneva 2000

Luning, P.A. & Marcelis, W.J. *Food Quality Management, Technological and Managerial Principles and Practices*, USA, Wageningen Academic Publishers, 2009

Roday, S. *Food hygiene and Sanitation*, New Delhi, Tata McGraw Hill education, 1998

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment:

Marks: 50

Duration: 1.5 hour

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	10	2 x 5= 10 (2 out of 4 questions internal choice)
	K3/K3	10	2 x 5=10 (2 out of 4 questions internal choice)
C	K4/ K4	10	1×10 = 10 (1 out of 2 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions internal choice)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination: Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10 × 2= 20 (All questions to be answered)
B	K2/K2	20	4 x 5= 20 (4 out of 6 questions internal choice)
	K3/K3	20	4 x 5 = 20 (4 out of 6 questions internal choice)
C	K4/ K4	20	2 × 10= 20 (2 out of 4 questions internal choice)
D	K5/K5	20	1×20 =20 (1 out of 2 questions internal choice)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VF/VM/FQ66												
VI	Course Title: FOOD QUALITY MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	3	3	2	3	3	3	3	3	3	2
CO 2	3	1	3	3	3	3	3	3	3	3	2	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

WASTE MANAGEMENT IN FOOD INDUSTRY

CODE: 23VF/VM/WM66

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To provide knowledge of types and the management of waste from food industries.
- To gain knowledge regarding the environmental consideration and laws pertaining to these.
- To understand the methods to reduce and reuse wastes from various food industries.
- To provide skill sets for waste water testing and analysis.
- To understand and apply knowledge in effective utilization of generated by products in developing value added. products

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Gain knowledge on the type of waste generated from food industries and the regulations governing their disposal.	K1
CO2	Understand various aspects of food waste management in a food production cycle.	K2
CO3	Plan methods of segregation, recycling and disposal of food waste reducing the impact on environment, economy and community.	K3
CO4	Evaluate the physical and chemical characteristics of waste waters generated from food processing plants.	K4
CO5	Design composting systems, maintain and plan layout for effective waste disposal systems and develop value added products from industrial by products.	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Impact of Waste Generation in Food Industry 1.1 Food Industry Wastes, Food Waste Treatment, necessity of food waste utilization 1.2 Types of Waste and magnitude of waste generation in different Food Processing industries 1.3 Concept, Scope and Importance of Waste Management and Effluent Treatment	K1 – K2 K1 – K2 K1 – K3	6	CO1- CO2
2	Environmental Standards and Waste characterization 2.1 ISO 14001 standards, Environmental Legislation 2.2 Treatment according to established standards and directives, environmental best – practice technologies for Waste Minimization, Environmental Protection Act and specification for effluent of different Food Industries	K1 – K2 K1 – K3	6	CO1 -CO2
3	Effluent Treatment and Testing 3.1 Treatment – Pre-treatment of waste: sedimentation, coagulation, flocculation and floatation 3.2 Secondary treatments: Biological oxidation – trickling filters, oxidation ditches, activated sludge process, rotating biological contractors, aerated lagoons 3.3 Tertiary treatments 3.4 Testing – pH, BOD, COD, fat, oil and grease content, Metal content, Phosphorus and Sulphur in waste waters, Microbiology of wastes, Insecticides, Pesticides and Fungicides residues	K2 – K3 K2 -K3 K2 – K3 K1 – K5	10	CO1 – CO4
4	Waste Utilization of Agro Industries. 4.1 Characterization and utilization of by products from Cereals, Pulses and oilseeds 4.2 Fruits and Vegetables and Plantation Crops 4.3 Vermicomposting of Wastes from Food Industries	K1 – K5 K1 – K5 K1 - K3	9	CO1 – CO5

UNIT	CONTENT	CL	Hrs	CO
5	Waste Utilization of Animal and Marine Product Industries 5.1 Characterization and utilization of by-products from dairy industries 5.2 Utilization of wastes from poultry, Meat, Fish and Marine Processing Industries. 5.3 Visit to Food industries – Effluent and Waste Treatment.	K1-K5 K1- K5	8	CO1 -CO5
	LABORTAORY WORK 1. Testing alkalinity in waste water. 2. Determination of chloride content(Argentometric method). 3. Testing hardness in waste water (EDTA method). 4. Determination of Dissolved Oxygen (Winkler Method). 5. Determination of BOD in waste water (Titrimetric). 6. Determination of Iron content (Wong's Method). 7. Estimation of turbidity (Nephelometer). 8. Estimation of sulphate content (Turbidimetric). 9. Estimation of Copper content in waste water (Iodometric). 10. Estimation of phosphorous content (ANSA). 11. Estimation of nitrates in waste water (U.V. Spectrophotometric method). 12. Estimation of Ammonia in waste water (Nesslerization method). 13. Estimation of nitrites(Colorimetric method). 14. Estimation of TDS (Gravimetric Method). 15. Vermicomposting- Visit to a field.	K2 – K6	39	CO1 -CO5

TEXT BOOKS

Mariett, N.G. Principles of food sanitation, New Delhi. CBS publication, 2005
Yapijakis, C. L.Wang, Yung Tse- Hung, H. LO, Waste treatment in the food processing industry. New Delhi. CRC,2005.

Geetha Swaminathan and Mary George. Laboratory Chemical Methods in Food Analysis. Chennai: Margham Publications, 2014.

CPCB manual for Waster Analysis

BOOKS FOR REFERENCE

Ismail S.A., The Earthworm Book, Goa: India, 2005

Oreopoulou, V. Russ, W (ed) “Utilisation of by-products and treatment of waste in the food industry” Vol, 3., Springer, 2007.

Waldron, K “Handbook of waste management and co-product recovery in food processing”. New Delhi. CRC, 2007.

Smith, R., J. Klemes, J-K Kim “Handbook of water and energy management in food processing.”, New Delhi. CRC, 2008.

ISO 14000, Environmental Management Standards.

PATTERN OFASSESSMENT

No Unit should be left out.

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY

Marks: 25

Duration:90minutes

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1x 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1x 3=3(1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions)
	K6/K6	5	1×5=5 (1 out of 2 questions)

PRACTICAL

Marks: 25

Duration:90minutes

Knowledge Level	Marks
K1	2
K2	3
K3	5
K4	5
K5	5
K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:
THEORY

Total Marks: 100
Marks: 50

Duration: 5 hours
Duration: 2hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	1×10=10 (1 out of 2 questions)
	K6/K6	10	1×10=10 (1 out of 2 questions)

PRACTICAL

Marks: 50

Duration:3 hours

Knowledge Level	Marks
K1	4
K2	6
K3	10
K4	10
K5	10
K6	10

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23VF/VM/WM66												
VI	Course Title: WASTE MANAGEMENT IN FOOD INDUSTRY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	3	3	3	3	3	3	2	3	2
CO 2	3	3	3	3	3	3	3	2	3	3	2	3	2
CO 3	3	3	3	3	3	3	3	3	3	3	2	3	2
CO 4	3	3	3	3	3	3	3	3	3	3	3	3	2
CO 5	3	3	3	3	3	3	3	3	2	2	2	2	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ADVANCEMENTS IN FOOD PROCESSING AND TECHNOLOGY

CODE: 23VF/VM/AT66

CREDITS: 6

L T P: 6 0 0

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To enable students to understand the importance of the new food processing technologies.
- To provide exposure to the students about the application low temperature techniques in food processing
- To provide knowledge about the food safety aspects related to use of these emerging techniques.
- To encourage students to develop and evaluate products using these processing techniques.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Gain knowledge to understand the novel food processing technologies.	K1,K2,K3
CO2	Understand the application of non-thermal methods in increasing the shelf life of food products.	K2,K3
CO3	Apply novel technologies for new product development and preservation.	K3
CO4	Suggest the application of an appropriate processing technology for specific foods.	K4
CO5	Assess the impact of the novel technologies in maintaining food safety.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Minimal Processing 1.1 Minimal Fresh Processing of Vegetables, Fruits and Juices 1.2 Minimal Processing of Ready Meals 1.3 Modified Atmosphere Packaging for Minimally Processed Foods	K1-K2 K1-K2 K1-K6	16	CO1-CO3
2	Pulsed Electric Fields Processing 2.1 Overview of Pulsed Electric Field Processing for Food 2.2 Pulsed Electric Field Processing of Liquid Foods and Beverages 2.3 Effect of High Intensity Electric Field Pulses on Solid Foods 2.4 Enzymatic Inactivation by Pulsed Electric Field 2.5 Food Safety Aspects of Pulsed Electric Fields	K1-K2 K3-K6 K4,K5 K3 K1-K5	16	CO1-CO5
3	Food Irradiation and High Pressure Processing 3.1 Food irradiation – advantages and applications, microwave processing – interaction with food materials 3.2 High Pressure Processing of Foods: An Overview – Principles – equipment 3.3 Microbiological Aspects of High – Pressure Processing	K1-K3 K1-K4 K1-K5	16	CO1, CO3, CO5
4	Ohmic Heating 4.1 Application of heat and ultrasound – inactivation of microorganisms and enzymes 4.2 Electrical resistance heating of food – ohmic heating models – treatment of products – high voltage pulse techniques – Elsteril process, influence on microorganism, food ingredients 4.3 Decontamination of packaging – decontamination of microorganism by surface treatment	K3-K5 K1-K3 K3-K6	15	CO1, CO3, CO5
5	Innovations in Food Refrigeration 5.1 Vacuum Cooling of Foods 5.2 Ultrasonic Assistance of Food Freezing 5.3 High-Pressure Freezing 5.4 Controlling the Freezing Process with Antifreeze Proteins	K1-K3 K1-K3 K1-K4 K1-K4	15	CO1-CO3

TEXT BOOK

Da-Wen Sun, Emerging Technologies for Food Processing. USA: Elsevier, 2014

BOOK FOR REFERENCE

Biosensors for food analysis, A O Scott, The Tetley Group Limited, UK, Woodhead Publishing Limited, Abington Hall, Abington, Cambridge, CB21 6AH, England, 2008.

Nonthermal Preservation of Foods. Gustavo V. Barbosa-Canovas, Usha R. Pothakamury, Enrique Palou and Barry G. Swanson. Published by Marcel Dekker, Inc., 270, Madison Avenue, New York 10016, 1998.

Trends in Food Engineering, Jorge E. Lozano, Cristina Anon, Efren Parada-Arias, Gustavo V. Barbosa-Canovas, Contributor Jorge E. Lozano, New Delhi. CRC Press, 2001

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions internal choice)
	K3/K3	10	2×5 = 10 (2 out of 4 questions internal choice)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions internal choice)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions internal choice)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions internal choice)
	K3/K3	20	4×5 = 20 (4 out of 6 questions internal choice)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions internal choice)
D	K5/K5	10	1×20 = 20 (1 out of 2 questions internal choice)

Mapping of Course Outcomes (COs) to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23VF/VM/AT66												
VI	Course Title: ADVANCEMENTS IN FOOD PROCESSING AND TECHNOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	1	2	3	3	2	3	3	3	3	3	3	2
CO 2	3	2	3	3	3	3	3	3	3	3	2	3	2
CO 3	3	3	3	3	3	3	2	2	3	3	3	3	2
CO 4	3	3	3	3	3	3	3	2	3	3	3	3	3
CO 5	3	3	3	3	3	3	2	2	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
FOOD PROCESSING AND QUALITY CONTROL**

SYLLABUS

(Effective from the academic year 2023 – 2024)

PROJECT

CODE: 23VF/VM/PR615

CREDITS: 15

OBJECTIVES OF THE COURSE

- To enable the student to work independently.
- To apply the skill development training they have gained during the course of study.
- To enhance employability.
- To develop technical, interpersonal and communication skills.
- To know the ability to generate new ideas in food product development.

GUIDELINES FOR PROJECT:

- Project is done individually in an industry / lab
- Project requires practical work with the submission of a project report which will include the work executed.
- The project report should be submitted in the prescribed format containing a minimum of 25 pages.

GUIDELINES FOR EVALUATION:

The candidate will be evaluated by the Industrial partner/guide, based on attendance, maintenance of log book, experimental work and project report. The maximum marks will be 100.

Continuous Assessment**Total Marks: 50**

Rubrics for Evaluation	Marks	Cognitive Level
Research statement and methodology	10	K1 – K2
Documentation - text and images	25	K3 – K4
Research findings, Product Development and analysis.	15	K5 – K6

End-Semester Examination: Total Marks: 100

Rubrics for Evaluation	Marks	Cognitive Level
Documentation	10	K1
Formulating topic statement	15	K2
Explaining the conceptual framework	25	K3
Textual analysis	25	K4
Research arguments	15	K5
Research conclusions	10	K6



STELLA MARIS COLLEGE
(AUTONOMOUS), CHENNAI - INDIA

B.Voc. DEGREE
SUSTAINABLE ENERGY MANAGEMENT
(CHOICE BASED CREDIT SYSTEM)

OUTCOME BASED EDUCATION (OBE)
LEARNING OUTCOME BASED
CURRICULUM FRAMEWORK (LOCF)

SYLLABUS
(Effective from the academic year 2023 – 2024)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Voc. SUSTAINABLE ENERGY MANAGEMENT

PROGRAMME DESCRIPTION

The college was selected by UGC in August 2015 to offer Bachelor of Vocational Degree (B.Voc. Degree) Programme in Sustainable Energy Management. The aim is to enhance skill training and employability of graduates. The University of Madras communicated on 16 September 2015, granting permission to start the B. Voc. Degree Programme from the academic year 2016-2017 and the Programme was started in 2016.. The focus of the Programme is on skill development and quality education with hands- on - training to meet the needs of students and the industry. The B. Voc Programme was supported by the UGC(for a period of three years) under the aegis of National Skill Development Corporation (NSDC) and the Sector Skill Council-Green Jobs. The UGC under the aegis of NSQF has also awarded an extension to continue the three year B. Voc. Degree Programme in 2018. The Programme affiliated to the University of Madras offers the degree as "Bachelor of Vocational in Sustainable Energy Management". This Programme is competency based and the curriculum is organised such that it includes the content of the Qualification Packs graded by NSQF at levels 4 to 7. The industry is actively involved in both curriculum design and imparting the skill sets. The uniqueness of the program is that it has multiple exit points after the successful completion of at the end of first year: Diploma (59 Credits), at the end of second year: Advanced Diploma (117 Credits), on successful completion of third year: B.Voc. Degree (180 Credits). Besides the University examination, the students are also assessed by Industrial Persons and the certification awarded by NSDC for the respective Qualification Packs.

VISION OF THE DEPARTMENT

To provide experiential learning with high impact skill training to enhance employability and foster national and global competency

MISSION OF THE DEPARTMENT

To create an ambience in which experiential learning is implemented and new ideas and creativity flourish and from which responsible citizens and innovators of tomorrow emerge for Environment Sustainability and use of renewable energy.

PROGRAMME SPECIFIC OUTCOMES

On successful completion of the B.Voc. in Sustainable Energy Programme, the students will be able to

PSO1	impart knowledge on alternative sources of energy and their application through critical analysis of the global energy market for sustainable energy solutions
PSO2	sensitize on various challenges in the utilization of non-renewable energy sources and analyse non-conventional energy sources
PSO3	gain experimental / experiential learning on principal components and equipment in accordance with energy conversion/conservation technology
PSO4	understand and interpret the ethical and environmental issues in promoting sustainable living spaces and construct a better society
PSO5	acquisition of skill set through training to innovate eco-friendly energy products and methodologies for entrepreneurship and employment.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Voc - Sustainable Energy Management 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	4	4	4	4	4	4	4	4					16	16
Part - II														
English	4	4	4	4	4	4	4	4					16	16
											Total		32	32
Part - III														
GE / Tamil			2	2	2	2							4	4
Value Education	2	2			2	2							4	4
Soft Skills (dept.)			2	2					2	2			4	4
Soft Skills (other)							4	4	2	2			6	6
Soft Skills (VE)									2	2			2	2
Environmental Studies			2	2									2	2
Extension Activity	1												1	0
											Total		23	22
Part - IV														
Major Core	6	6	6	6	6	6	6	6	6	6	6	6	36	36
	6	6	6	6	6	6	6	6	6	6	6	6	36	36
									6	6	6	6	12	12
									6	6	15	15	21	21
Allied Core	5	5			5	5	5	5					15	15
Elective			5	5									5	5
Mentoring		2				1		1					0	4
Remedial		1											0	1
											Total		125	130
	28	30	31	31	29	30	29	30	30	30	33	33**	180	184

****Project Work Extends Outside the College Hours**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: SUSTAINABLE ENERGY MANAGEMENT

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
Semester - I									
23VS/VM/FC16	Forms of Energy and Energy Crisis	6	3	0	3	5	25	75	100
23VS/VM/SE16	Solar Energy	6	3	0	3	5	25	75	100
23VS/VA/EE15	Energy Economics	5	5	0	0	3	25	75	100
23UV/ET/VP12	Values in Personal Life	2	2	0	0	-	25	-	100
23EA/GM/--11	Extension Activity	1	-	-	-	-	-	-	-
Semester - II									
23VS/VM/PV26	Fundamentals of Photovoltaics	6	3	0	3	5	25	75	100
23VS/VM/ET26	Energy Conversion Techniques	6	3	0	3	5	25	75	100
23VS/VE/EM25 /	Energy Management and Energy Audit	5	5	0	0	3	25	75	100
23VS/VE/CW25	Conservation of Water Resources: Watershed Management								
23VS/UC/ES22	Environmental Studies	2	2	0	0	-	25	-	100
23TM/UE/BT12 /	Basic Tamil -I	2	2	0	0	-	25	-	100
23CS/UE/DP22	Documentation and Presentation	2	1	0	1	-	25	-	100
23VS/US/SS22	Soft Skills	2	2	0	0	-	25	-	100
Semester - III									
23VS/VM/BE36	Bio Energy	6	3	0	3	5	25	75	100
23VS/VM/WM36	Waste Management	6	3	0	3	5	25	75	100
23VS/VA/EN35	Environment and Ecology	5	4	0	1	3	25	75	100
23TM/UE/BT22 /	Basic Tamil -II	2	2	0	0	-	25	-	100
23CM/UE/BP22	Banking Practices	2	2	0	0	-	25	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: SUSTAINABLE ENERGY MANAGEMENT

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
23UV/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	25	-	100
Semester - IV									
23VS/VM/AB46	Advanced Bioenergy	6	3	0	3	5	25	75	100
23VS/VM/BF46	Biofuels	6	3	0	3	5	25	75	100
23VS/VA/MF45	Microbial Fuel Cells	5	4	0	1	3	25	75	100
23CS/US/IC44	Introduction to Computer Skills	4	2	0	2	-	25	-	100
Semester - V									
23VS/VM/NM56	Novel Material for Sustainability	6	3	0	3	5	25	75	100
23VS/VM/SG56	Software Tools and Green Cloud Computing	6	3	0	3	5	25	75	100
23VS/VM/PD56	Solar Power Plant Designing	6	3	0	3	5	25	75	100
23VS/VM/GB56	Green Building	6	5	0	1	3	25	75	100
23PY/US/HB52	Human Behaviour	2	2	0	0	-	25	-	100
23VS/US/CA52	Civic Awareness	2	2	0	0	-	25	-	100
23UV/US/SF52	Values in Social and Family Life	2	2	0	0	-	25	-	100
Semester - VI									
23VS/VM/EI66	Entrepreneurial Initiatives for Sustainable Development	6	4	0	2	3	25	75	100
23VS/VM/GM66	Green Management-Urban and Rural Scenario	6	5	0	1	3	25	75	100
23VS/VM/SC66	Energy for Smart Cities	6	5	0	1	3	25	75	100
23VS/VM/PR615	Project	15	0	0	15	-	25	75	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

VISION STATEMENT

The vision of the College is to build a vibrant and inclusive learning community in a culture of excellence sustained by a sound value system that promotes responsible citizenship and effects social change.

MISSION STATEMENT

The mission of the College is to empower young women to face the challenges of life with courage and commitment, to be builders of a humane and just society, and to promote a learning community in which all, especially those from less privileged backgrounds, feel part of the collaborative high quality educational process which is value based and leads to holistic growth.

EDUCATIONAL OBJECTIVES OF THE INSTITUTION

- To offer a globally relevant curriculum and promote academic excellence, equipping graduates with a comprehensive understanding of their domain of study, leading to research and innovation
- To promote professional skill development and entrepreneurship, empowering graduates to achieve professional excellence, employability, entrepreneurship and leadership qualities
- To provide a vibrant and inclusive teaching-learning environment where graduates are imbued with a strong desire for academic growth and become lifelong learners
- To contribute towards nation building by fostering in graduates a respect for values, ethics and diversity
- To be environmentally conscious and sustainable, inspiring graduates to fulfil their social and civic responsibilities

UNDERGRADUATE PROGRAMME OUTCOMES (POS)

On successful completion of the Programme, graduates will

PO 1	demonstrate a comprehensive knowledge of the fundamental principles, theories and historical developments that form the foundation of their discipline.
PO 2	apply relevant critical/creative thinking and scientific reasoning skills to their domain knowledge.
PO 3	exhibit an ability to connect their domain knowledge with other disciplines.
PO 4	display the ability to comprehend and use English and one other language effectively for oral and written expression.
PO 5	demonstrate career readiness, entrepreneurial initiative, potential for higher education, and manifest an interest in self-directed learning.
PO 6	acquire relevant digital/technological skills, and the ability to work individually and collaboratively towards innovation and leadership.
PO 7	demonstrate social and ethical responsibility, and develop a concern for environmental issues and sustainability.
PO 8	display self-awareness, attitudes of inclusivity, and effectively engage in a multicultural society with respect for democracy, peace and diversity.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI-600086

B.Voc. SUSTAINABLE ENERGY MANAGEMENT

PROGRAMME DESCRIPTION

The college was selected by UGC in August 2015 to offer Bachelor of Vocational Degree (B.Voc. Degree) Programme in Sustainable Energy Management. The aim is to enhance skill training and employability of graduates. The University of Madras communicated on 16 September 2015, granting permission to start the B. Voc. Degree Programme from the academic year 2016-2017 and the Programme was started in 2016.. The focus of the Programme is on skill development and quality education with hands- on - training to meet the needs of students and the industry. The B. Voc Programme was supported by the UGC(for a period of three years) under the aegis of National Skill Development Corporation (NSDC) and the Sector Skill Council-Green Jobs. The UGC under the aegis of NSQF has also awarded an extension to continue the three year B. Voc. Degree Programme in 2018. The Programme affiliated to the University of Madras offers the degree as "Bachelor of Vocational in Sustainable Energy Management". This Programme is competency based and the curriculum is organised such that it includes the content of the Qualification Packs graded by NSQF at levels 4 to 7. The industry is actively involved in both curriculum design and imparting the skill sets. The uniqueness of the program is that it has multiple exit points after the successful completion of at the end of first year: Diploma (59 Credits), at the end of second year: Advanced Diploma (117 Credits), on successful completion of third year: B.Voc. Degree (180 Credits). Besides the University examination, the students are also assessed by Industrial Persons and the certification awarded by NSDC for the respective Qualification Packs.

VISION OF THE DEPARTMENT

To provide experiential learning with high impact skill training to enhance employability and foster national and global competency

MISSION OF THE DEPARTMENT

To create an ambience in which experiential learning is implemented and new ideas and creativity flourish and from which responsible citizens and innovators of tomorrow emerge for Environment Sustainability and use of renewable energy.

PROGRAMME SPECIFIC OUTCOMES

On successful completion of the B.Voc. in Sustainable Energy Programme, the students will be able to

PSO1	impart knowledge on alternative sources of energy and their application through critical analysis of the global energy market for sustainable energy solutions
PSO2	sensitize on various challenges in the utilization of non-renewable energy sources and analyse non-conventional energy sources
PSO3	gain experimental / experiential learning on principal components and equipment in accordance with energy conversion/conservation technology
PSO4	understand and interpret the ethical and environmental issues in promoting sustainable living spaces and construct a better society
PSO5	acquisition of skill set through training to innovate eco-friendly energy products and methodologies for entrepreneurship and employment.

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086														
DISTRIBUTION OF CREDITS AND HOURS														
B.Voc - Sustainable Energy Management 2023 - 2024														
COURSES	I		II		III		IV		V		VI		Total Credits	Total Hours
	C	H	C	H	C	H	C	H	C	H	C	H		
Part - I														
Language	4	4	4	4	4	4	4	4					16	16
Part - II														
English	4	4	4	4	4	4	4	4					16	16
											Total		32	32
Part - III														
GE / Tamil			2	2	2	2							4	4
Value Education	2	2			2	2							4	4
Soft Skills (dept.)			2	2					2	2			4	4
Soft Skills (other)							4	4	2	2			6	6
Soft Skills (VE)									2	2			2	2
Environmental Studies			2	2									2	2
Extension Activity	1												1	0
											Total		23	22
Part - IV														
Major Core	6	6	6	6	6	6	6	6	6	6	6	6	36	36
	6	6	6	6	6	6	6	6	6	6	6	6	36	36
									6	6	6	6	12	12
									6	6	15	15	21	21
Allied Core	5	5			5	5	5	5					15	15
Elective			5	5									5	5
Mentoring		2				1		1					0	4
Remedial		1											0	1
											Total		125	130
	28	30	31	31	29	30	29	30	30	30	33	33**	180	184

****Project Work Extends Outside the College Hours**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: SUSTAINABLE ENERGY MANAGEMENT

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
Semester - I									
23VS/VM/FC16	Forms of Energy and Energy Crisis	6	3	0	3	5	25	75	100
23VS/VM/SE16	Solar Energy	6	3	0	3	5	25	75	100
23VS/VA/EE15	Energy Economics	5	5	0	0	3	25	75	100
23UV/ET/VP12	Values in Personal Life	2	2	0	0	-	25	-	100
23EA/GM/--11	Extension Activity	1	-	-	-	-	-	-	-
Semester - II									
23VS/VM/PV26	Fundamentals of Photovoltaics	6	3	0	3	5	25	75	100
23VS/VM/ET26	Energy Conversion Techniques	6	3	0	3	5	25	75	100
23VS/VE/EM25 /	Energy Management and Energy Audit	5	5	0	0	3	25	75	100
23VS/VE/CW25	Conservation of Water Resources: Watershed Management								
23VS/UC/ES22	Environmental Studies	2	2	0	0	-	25	-	100
23TM/UE/BT12 /	Basic Tamil -I	2	2	0	0	-	25	-	100
23CS/UE/DP22	Documentation and Presentation	2	1	0	1	-	25	-	100
23VS/US/SS22	Soft Skills	2	2	0	0	-	25	-	100
Semester - III									
23VS/VM/BE36	Bio Energy	6	3	0	3	5	25	75	100
23VS/VM/WM36	Waste Management	6	3	0	3	5	25	75	100
23VS/VA/EN35	Environment and Ecology	5	4	0	1	3	25	75	100
23TM/UE/BT22 /	Basic Tamil -II	2	2	0	0	-	25	-	100
23CM/UE/BP22	Banking Practices	2	2	0	0	-	25	-	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

B.Voc. DEGREE: SUSTAINABLE ENERGY MANAGEMENT

COURSES OF STUDY

(Effective from the Academic Year 2023-2024)

CHOICE BASED CREDIT SYSTEM

Subject Code	Title of Course	Credits	Total Hours			Exam Hours	Marks		
			Lecture Hours (L)	Tutorial Hours (T)	Practical Hours (P)		Continuous Assessment	End Semester	Maximum
23UV/ET/SP32	Society and Peace Initiatives	2	2	0	0	-	25	-	100
Semester - IV									
23VS/VM/AB46	Advanced Bioenergy	6	3	0	3	5	25	75	100
23VS/VM/BF46	Biofuels	6	3	0	3	5	25	75	100
23VS/VA/MF45	Microbial Fuel Cells	5	4	0	1	3	25	75	100
23CS/US/IC44	Introduction to Computer Skills	4	2	0	2	-	25	-	100
Semester - V									
23VS/VM/NM56	Novel Material for Sustainability	6	3	0	3	5	25	75	100
23VS/VM/SG56	Software Tools and Green Cloud Computing	6	3	0	3	5	25	75	100
23VS/VM/PD56	Solar Power Plant Designing	6	3	0	3	5	25	75	100
23VS/VM/GB56	Green Building	6	5	0	1	3	25	75	100
23PY/US/HB52	Human Behaviour	2	2	0	0	-	25	-	100
23VS/US/CA52	Civic Awareness	2	2	0	0	-	25	-	100
23UV/US/SF52	Values in Social and Family Life	2	2	0	0	-	25	-	100
Semester - VI									
23VS/VM/EI66	Entrepreneurial Initiatives for Sustainable Development	6	4	0	2	3	25	75	100
23VS/VM/GM66	Green Management-Urban and Rural Scenario	6	5	0	1	3	25	75	100
23VS/VM/SC66	Energy for Smart Cities	6	5	0	1	3	25	75	100
23VS/VM/PR615	Project	15	0	0	15	-	25	75	100

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FORMS OF ENERGY AND ENERGY CRISIS

CODE: 23VS/VM/FC16

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the various forms of energy
- To get an insight of energy crisis with solution and energy conservation practices
- To know the energy crisis scenario in the global context
- To perform fundamental energy calculations required for the work place
- To get trained in the basic first aid and safety techniques during panel installation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	remember the introduction to various forms of energy, energy consumption, resources, crisis and fundamental energy units.	K1
CO2	understand the various energy, economic growth, energy routes, over consumption and energy crisis.	K2
CO3	strengthen the types of energy sources, global energy consumption, age of renewables, unexplored renewable energies, global scenario of energy crisis and basic first aid and safety at work place..	K3
CO4	explore the primary and cumulative energy demand, energy requirements, commissioning of power plants, energy calculations and energy storage.	K4
CO5	experiment the future prospects of energy, technology and strategies to meet energy requirements and study the power consumptions.	K5 & K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to the forms of energy 1.1 Introduction – various forms of energy – thermal, sound, light electrical, magnetic, chemical, nuclear, mechanical, Elastic, Gravitational energy 1.2 Types of energy sources – Renewable – Non – Renewable sources	K1-K4	10	1-4
2	Energy Consumption and Demand 2.1 Energy consumption – energy consumption (per capita) and economic growth 2.2 Global energy consumption – Energy demand – primary energy demand and cumulative energy demand	K1-K4	10	1-4
3	Energy Resources 3.1 Energy routes for non-renewable energy resources – age of renewables and alternatives 3.2 Energy requirements and future prospects of energy	K1-K6	10	1-4
4	Energy Crisis its Causes and Solutions 4.1 Introduction: Causes of energy crisis: Over consumption, over population, infrastructure Unexplored Renewable Energy Options – Commissioning of Power Plants 4.2 Moving toward renewable energy sources – energy conservation practices Technology up gradation and strategies to meet energy requirements	K1-K6	9	1-5
5	Site Analysis: Fundamental Energy Calculations and work place safety 5.1 Energy calculations: units and conversion dimensional equations – Joules, kWh/units 5.2 Energy crisis: Global scenario – Energy crisis of developing countries – Report 5.3 Energy storage – Various energy storage systems and Energy savings – Comparative study of power consumption in electrical appliances 5.4 Basic First aid & Safety at work place	K1-K6	39	1-5

PRACTICAL COMPONENTS (39 Hours)

1. Determination of resistors in series/parallel and combination.
2. Post office box- Finding the resistance of the coil.
3. Post office box- Finding the resistance of the coil and to verify the law of resistance connected in series.
4. Post office box- Finding the resistance of the coil and to verify the law of resistance connected in parallel.
5. Verification of Ohm's law.
6. Measurement of current-voltage characteristics of two solar cells connected in parallel.
7. Measurement of current-voltage characteristics of two solar cells connected in series.

BOOKS FOR STUDY

D.P. Kothari, K. C. Singal, and Rakesh Ranjan, *Renewable Energy Sources and Emerging Technologies*, 2008
Mathur D.S. *Mechanics*. New Delhi: S. Chand, 2000
Murugesan.R, *Modern Physics*. New Delhi: S Chand, 2013.
Ramesh R. Kumar K.U *Renewable Energy Technologies* ,Narosa Publishing House, New Delhi, 1997. 2.
Thipse. S.S. *Nonconventional and Renewable energy sources*, Narosa Publishing House, New Delhi, 2014

BOOKS FOR REFERENCES

Halliday, David Robert Resnick and Walker Jearl. *Fundamentals of Physics*. New Delhi: John Wiley, 2001
G.D Rai, *Solar Energy Utilization*, 5th edition Khanna Publishers, 2010
Bob Fairbrother, *Electricity in the Home*, New York: Bell and Bain, 1998.
Lindslaey Trevor, *Basic Electrical Installation Work*, Great Britain: Newnes, 2005.

WEBSOURCES

<https://link.springer.com/article/10.1007/s10311-023-01591-5>
<https://coldwellsolar.com/commercial-solar-blog/causes-effects-and-solutions-to-the-global-energy-crisis/>
https://books.google.co.in/books?hl=en&lr=&id=P9JJEAAAQBAJ&oi=fnd&pg=PP1&dq=ENERGY+RESOURCES&ots=pK1NxbW6bo&sig=ULj9oz2qv7eU3GLfvEUeW7rPat8&redir_esc=y#v=onepage&q=ENERGY%20RESOURCES&f=false

PATTERN OF ASSESSMENT:

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY – 25 Marks

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1× 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1× 3=3(1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

**End-Semester Examination:
THEORY****Total Marks: 100
Marks: 50****Duration: 5 hours
Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

Criterion	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/FC16												
	Course Title: FORMS OF ENERGY AND ENERGY CRISIS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	2	2	2	3	2	2	3	3
CO 2	2	3	3	3	3	2	3	2	3	3	2	3	3
CO 3	3	3	3	2	3	2	3	3	3	2	2	3	3
CO 4	2	3	3	2	3	3	3	3	3	2	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

SOLAR ENERGY

CODE: 23VS/VM/SE16

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand various concepts in utilization of Solar energy
- To learn the merits of solar energy for variety of applications
- To study and associate the concept of semiconductors with real world applications
- To analyze about the potential of solar energy and about the harvesting them
- To apply the various properties of solar experiments to solve energy problems

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define fundamentals on solar radiation, introduction to semiconductors, fundamentals of solar collectors, Solar cooking, and solar photovoltaic cell for energy utilization	K1
CO2	classify nature of solar radiation, photovoltaic principles structure of collectors, solar system for process heat, solar pond and I-V characteristics of solar cell to deliver solar energy, different types of solar panels.	K2
CO3	identify radiation on earth's surface, operation of solar cell, solar concentrating collectors, solar thermos mechanical refrigeration system and solar energy spectrum to harness applications of solar energy.	K3
CO4	discover solar power plants, sun tracking mechanism, solar, solar pumping and solar cell fabrication for solar energy usage	K4
CO5	access solar mapping, solar distillation and solar panel experiment for solar energy efficiency	K5 & K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Solar Energy 1.1 Fundamentals of Solar Radiation – The Nature of Solar Radiation – Radiation on Earth’s Surface – Sun path Chart 1.2 Historical Perspective - Solar Energy; Obstacles and Outlook - Global and Indian solar energy scenario - Potential and power generation	K1-K3	10	1-3
2	Photovoltaics conversion 2.1 Introduction to semiconductors- Photovoltaics Principles- Conversion of DC power to AC power through inverters 2.2 Solar panels - Solar power plants – (CIGS panels/CSPV- Poly Crystalline-Mono Crystalline-Bifacial) 2.3 Various parameters and work safety for solar PV installation	K1-K4	10	1-4
3	Solar thermal collectors 3.1 Fundamentals of solar collectors as devices to convert solar energy to heat. Design and structure of collectors for heating liquids and air. 3.2 Solar concentrating collectors - Sun tracking mechanisms – Solar mapping	K1-K6	10	1-5
4	Applications 4.1 Solar thermo-mechanical refrigeration system-Solar systems for process heat production – Solar cooking – Performance and testing of solar cookers – Power generation - drying 4.2 Solar Pond – Solar greenhouse – Solar Pumping – Solar Distillation	K1-K6	9	1-5
5	Case Study 5.1 Solar panel experiment and study of Solar photovoltaic cells-IV characteristics. 5.2 Solar energy spectrum calculation of Rydberg’s constant. 5.3 Solar cell fabrication.(Solar Panel Manufacturing-Site Visit)	K1-K6	39	1-5

Practical Component [39 hours]

1. Studying the I-V characteristics performance of a solar panel
2. Studying the efficiency of solar cell on characteristics photovoltaic effect
3. Comparing the performance of solar cell by different light sources
4. Determining the effect of insolation effect on the solar panel
5. Studying the characteristics I-V curve of a solar panel by different light sources
6. Analyzing the fill factor of a solar panel
7. Accessing the power of a solar panel
8. Finding the effect of series connection of a solar panel
9. Finding the effect of parallel connection of a solar panel

BOOKS FOR STUDY

Agarwal. *Solar Energy*., New Delhi: S.Chand& Company Ltd., 198
Thipse S.S. *Non-Conventional Energy and Renewable Energy Sources*, Narosa Publishing House, 2014
Garg H.P. Prakash J. “*Solar Energy Fundamentals and Applications*”, Tata McGraw-Hill, 2005
G.D. Rai, *Solar Energy Utilization*, 5th edition. Khanna Publishers, 2010.

BOOKS FOR REFERENCE

B. H. Khan. *Non-Conventional Energy Resources*, Second Edition. Tata McGraw Hill Education Private Limited, 2012
Sukatme. *Solar Energy*, Tata McGraw Hill Publishing company Ltd., 1996
Michael Boxwell, *Solar Electricity Handbook*, 2012 Edition
G. N. Tiwari, Arvind Tiwari, Shyam, Handbook of solar energy, theory, analysis and applications, Springer publication 2016

WEB RESOURCES

<https://www.energy.gov/eere/solar/how-does-solar-work>
https://energyeducation.ca/encyclopedia/Photovoltaic_effect
<https://globalsolaratlas.info/map>

BOOKS FOR REFERENCE (Practical)

C. S. Ramya Photovoltaics laboratory techniques and procedures- A manual to test solar cells and panels, Blueros Publishers first edition 2022
G. N. Tiwari, Arvind Tiwari, Shyam, Handbook of solar energy, theory, analysis and applications, Springer publication 2016

PATTERN OF ASSESSMENT:

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY – 25 Marks

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1x 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1x 3=3(1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100**Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

Criterion	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23VS/VM/SE16												
	Course Title: SOLAR ENERGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	3	2	3	2	2	3	3
CO 2	2	3	2	2	3	3	3	3	3	2	3	3	3
CO 3	2	3	3	2	2	3	3	3	3	2	3	2	3
CO 4	2	3	3	2	3	3	3	3	3	2	3	3	3
CO 5	2	2	3	3	3	3	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENERGY ECONOMICS

CODE:23VS/VA/EE15

CREDITS: 5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To develop in the students an awareness of the basic issues and problems relating to the Energy Economics
- To help in analyzing the energy market in the Indian context
- To learn fundamental energy market dynamics through an economic lens
- To address energy economic challenge as an energy analyst
- To describe current energy market trends and relate current conditions to historical markets

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	identify the basic principles of Micro Economics , Energy economics, SDG, Energy security and natural gas markets	K1
CO2	summarize the basic problems of economy, post industrialization, electricity markets, Energy triangle and energy usage at home	K2
CO3	demonstrate the role of market, energy needs in countries, goals of renewable energy and Indian environmental policies and energy calculator	K3
CO4	examine elastic demand curves, Clean energy, Solar and wind energy prospectus , International policies and energy consumption calculation	K4
CO5	evaluate the factors affecting demand supply, SDG 7, Future of renewable energy , regulations and Industry power management	K5
CL– Cognitive Level K1– Remember K2– Understand K3– Apply K4 – Analyse K5– Evaluate K6– Create		

UNIT	CONTENT	CL	HRS	CO
1	Introduction to Micro Economic Concepts 1.1 Definition of Economics – Scarcity 1.2 Basic problems of economy 1.3 Role of market in organizing economic activity 1.4 Demand – Demand curve, Factors affecting demand, shift of demand curve. 1.5 Supply – Supply curve, Factors affecting supply, shift of supply curve	K1-K4	13	1-4
2	Introduction to Sustainable Energy 2.1 Definition - Energy Economics 2.2 Historical Context – post industrialization- growth of the developed countries and growing energy needs of less developed countries 2.3 Overview of energy use and energy consumption 2.4 Introduction to the Sustainable Development Goal– Clean energy - SDG 7	K1-K5	13	1-5
3	Energy Markets 3.1 Natural Gas – Introduction to Natural Gas Markets - Future 3.2 Electricity and Coal Markets 3.3 Renewable Energy – Solar and Wind Energy – Prospects and Future	K1-K5	13	1-5
4	Energy Policies 4.1 Introduction to Energy Security– Energy triangle 4.2 Indian Environmental Policies – Renewable energy- policies – energy efficiency policies 4.4 International Energy policies - UNFCCC 4.4 Regulations– command and control	K1-K5	13	1-5
5	Energy Management & Case Study 5.1 Energy use by individuals and households – energy calculator–energy consumption 5.2 Industry Power management	K1-K5	13	1-5

BOOKS FOR STUDY

N. Gregory Mankiw. *Principles Of Economics* 9th edition, 2019 - Unit 1 - Chapter 1& 4

BOOKS FOR REFERENCE

Banks F.E. *Energy Economics: A Modern introduction*, Kluwer Academic Publishers Dordrecht 2000.

Griffin J.M. and H.B. Steele. *Energy Economics and Policy*, Academic, Orlando, 1986

Hussen. Ahmed.M. *Principles of Environmental Economics: Economics, Ecology and Public Sector*. London: Routledge. 1999.

Kolestad. Charles D. *Environmental Economics*, New York: Oxford University Press. 2000.

Singh, Katar. And Shishodia. Anil. *Environmental Economics: An Indian Perspectives*. New Delhi: Oxford University Press. 2007.

PATTERN OF ASSESSMENT

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (Answer all questions)
B	K2/K2	10	$2 \times 5 = 10$ (2 out of 4 questions)
	K3/K3	10	$2 \times 5 = 10$ (2 out of 4 questions)
C	K4/K4	10	$1 \times 10 = 10$ (1 out of 2 questions)
D	K5/K5	10	$1 \times 10 = 10$ (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	$10 \times 2 = 20$ (Answer all questions)
B	K2/K2	20	$4 \times 5 = 20$ (4 out of 6 questions)
	K3/K3	20	$4 \times 5 = 20$ (4 out of 6 questions)
C	K4/K4	20	$2 \times 10 = 20$ (2 out of 4 questions)
D	K5/K5	20	$2 \times 10 = 20$ (2 out of 4 questions)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23VS/VA/EE15												
	Course Title: ENERGY ECONOMICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	3	2	3	2	2	2	2
CO 2	3	2	3	2	3	3	3	3	3	2	2	3	3
CO 3	2	2	2	2	3	3	3	3	3	2	2	3	3
CO 4	2	2	3	2	3	3	3	3	3	2	2	3	2
CO 5	2	2	2	2	3	3	3	3	3	2	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

FUNDAMENTALS OF PHOTOVOLTAICS

CODE: 23VS/VM/PV26

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To learn about basics photovoltaic principles in understanding performance of solar cells
- To locate the various components available in photovoltaic system for power generation
- To project the proper designing of cost effective solar photovoltaic systems
- To discover about the potential application of photovoltaic systems
- To access and compile the efficiency of solar panel for electric energy generation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	relate properties of photovoltaic systems, stand-alone system, system with battery, solar cell array, solar vehicles and solar energy to electric conversion	K1
CO2	extent knowledge of a homo-hetero junction, hybrid system, shadow analysis, integrated building and efficiency of solar panel	K2
CO3	identify metal semiconductor interface, net power meters, design PV system and its cost, solar cars and meters of photovoltaic system, Load Calculation	K3
CO4	examine illumination characteristics, home lighting, space solar satellites and experiment using solar panel for solar energy management, End life Management for PV Waste	K4
CO5	predict the efficiency of solar cells by using figure of merit and solar cell array performance	K5 & K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Photovoltaic Basics and Photovoltaic Cells 1.1 Properties-Theory of Photovoltaic systems - energy levels – Photo Conductivity 1.2 PN junction: homo and hetero junctions – metal semiconductor interface- Dark and illumination characteristics - figure of merit– efficiency of solar cells	K1-K6	8	1-3
2	Classification of Photovoltaic Systems 2.1 Stand-alone Systems - Systems with Battery Storage -System with Back-up - Generator Power - System Connected to the Utility Grid - Hybrid Systems 2.2 System components - PV arrays – inverters – batteries - charge controls - net power meters	K1-K3	8	1-3
3	Photovoltaic System Design 3.1 Solar cell array: System analysis and performance prediction- Shadow analysis - reliability - design concepts of solar array 3.2 Design of solar PV systems and cost estimation - Home lighting and other appliances 3.3 End life Management for Solar PV waste 3.4 Load Calculation-Load Estimation	K1-K6	8	1-4
4	Photovoltaic System Applications 4.1 Building-integrated photovoltaic units 4.2 Solar cars – aircraft - space solar power satellites 4.3 Performance of the Solar vehicles	K1-K6	8	1-5
5	Case Study 5.1 Solar energy to electric energy conversion – Experiment using Solar panel. 5.2 Efficiency of Solar panel calculation over the day with the use of meters. 5.3 Measurement of Sun’s Radiation on Earth’s Surface. SITE VISIT-To estimate Solar Requirement	K1-K5	7	1-5

Practical Component [39 hours]

1. Effect of shading on the performance of solar panel under light source and sun light.
2. Effect of colour shader on characteristics of solar panel under sunlight and light source.
3. Comparing the current - voltage characteristics of solar panel under sunlight and light source.
4. Determining the effect of distance on the solar panel.
5. Investigation of fill factor of a solar panel under sunlight and simulated light
6. Thermal studies on the performance of solar cell under light source and sun light
7. Consequences on the effect of intensity on the performance of solar panel.
8. Study on charging of battery using PV panel.

BOOKS FOR STUDY

Garg H P, Prakash J. Solar Energy: Fundamentals & Applications, Tata McGraw Hill, 2000

Larry D Partain, Solar Cells and their Applications, John Wiley and Sons, Inc, 1995

Raj. G.D. Non-Conventional Sources of Energy, Khanna Publishers, 2009

C. S. Solanki, Solar Photovoltaic Technologies: Fundamental Technologies and Application, Second Edition, Prentice Hall of India, 2011

BOOKS FOR REFERENCE

Abbas Ghassemi, Solar Energy Renewable Energy and the Environment, New Mexico State University, CRC press 2010

G. N. Tiwari, Arvind Tiwari, Shyam, Handbook of solar energy, theory, analysis and applications, Springer publication 2016

WEB RESOURCES

https://energyeducation.ca/encyclopedia/Photovoltaic_system

<https://www.electrical4u.com/what-is-photovoltaic-effect/>

<https://www.pveducation.org/pvcdrom/modules-and-arrays/shading>

BOOKS FOR REFERENCE (PRACTICAL)

C. S. Ramya Photovoltaics laboratory techniques and procedures- A manual to test solar cells and panels, Blueeros Publishers first edition 2022.

G. N. Tiwari, Arvind Tiwari, Shyam, Handbook of solar energy, theory, analysis and applications, Springer publication 2016

PATTERN OF ASSESSMENT:

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY – 25 Marks

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1× 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1× 3=3(1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Total Marks: 50

End-Semester Examination: Total Marks: 100
THEORY Marks: 50

Duration: 5 hours
Duration: 2 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

Marks: 50**Duration: 3 hours**

Criterion	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23VS/VM/PV26												
II	Course Title: FUNDAMENTALS OF PHOTOVOLTAICS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	3	2	3	3	2	2	3	3
CO 2	2	2	3	2	3	3	3	3	3	3	3	3	2
CO 3	2	2	3	2	3	3	3	3	3	2	3	3	3
CO 4	2	3	3	2	3	3	3	3	3	2	3	3	3
CO 5	2	3	3	2	3	3	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI– 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENERGY CONVERSION TECHNIQUES

CODE: 23VS/VM/ET26

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To analyze the conventional energy conversion techniques
- To develop understanding on direct energy conversion systems
- To appreciate the need and necessity of energy storage systems and their desirable characteristics
- To explore the different types of energy systems
- To increase the use of solar energy conversion for future aspects

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	remember the introduction to energy conversion, thermoelectric converters, storage of energy, dye sensitized solar cell and chemical energy	K1
CO2	understand the renewable resources, thermoelectric refrigerators, performance of electrochemical energy storage, hydrogen production and solar water heaters	K2
CO3	develop and strengthen the convention techniques, thermionic converters, photo catalysis and of solar energy storage systems	K3
CO4	explore the ferroelectric converter, pseudo capacitor, dye sensitized solar cells, and solar water pumps	K4
CO5	experiment the necessary scientific principles on energy conversions techniques, Seebeck effect, Peltier effect, water splitting, solar water heater and pump.	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to energy conversion 1.1 Introduction – energy conversion – renewable energy 1.2 Conventional techniques- Electrical to Mechanical, Chemical to Electrical, Thermal to heat and Mechanical to Potential energy	K1-K3	7	1-3
2	Direct Conversion of Thermal to Electrical Energy 2.1 Thermoelectric Converters – thermoelectric refrigerator – thermoelectric generator-Seebeck effect-Peltier effect 2.2 Thermionic converters – Ferroelectric converter– Nernst effect generator – thermomagnetic converter	K1-K6	8	1-5
3	Energy Storage Systems 3.1 Introduction – storage of mechanical energy, electrical energy, chemical energy, thermal energy. 3.2 Electrochemical energy storage – supercapacitor-pseudo capacitor-ultracapacitor.	K1-K6	8	1-5
4	Chemical, Electrochemical Energy and Hydrogen Energy Generation 4.1 Introduction to Dye sensitized solar cells- principle and working 4.2 Photocatalysis and applications -Bio reactors- Water splitting- Hydrogen production	K1-K5	8	1-5
5	Case Study 5.1 Chemical Energy to Electrical Energy 5.2 Conversion of Solar Energy to Heat Energy- Solar Water heater 5.3 Conversion of Solar Energy to Electrical Energy- Solar Water pump	K1-K6	8	1-5

Practical Component [39 hours]

1. pn - Junction diode - Current - Voltage characterization
2. Study of Seebeck effect through thermoelectric method
3. Study of Peltier effect through thermoelectric method
4. Estimation of figures of merit of solar cooker
5. Thermal Performance of solar Desalination Device
6. Instantaneous thermal performance of Solar Collector.
7. Determination of Energy band gap of the energy materials
8. Comparing the photo catalytic effect of degradation using different dyes

BOOK FOR STUDY

Archie.W.Culp. Principles of Energy Conversion, Singapore: McGraw-Hill Inc., 1991,
 Kettari, M.A. Direct Energy Conversion, Addison-Wesley Pub. Co. 1997

BOOK FOR REFERENCE

Kordesch. K. and Simader.G. Fuel Cell and Their Applications, Germany: Wiley-Vch, 1996

D. Yogi Goswami, Frank Kreith, Energy Conversion, CRC Press publication, 2008

Saurabh Mani Tripathi, Asheesh Kumar Singh, Energy Conversion: Methods, Technology

and Future Directions, Nova Science Pub Inc; 1st edition 2022

BOOKS FOR REFERENCE (PRACTICAL)

A Textbook of Practical physics Part 1 (for degree classes), Ouseph, Srinivasan, Balakrishhana: S. Viswanathan publishers, 2000

G. N. Tiwari, Arvind Tiwari, Shyam, Handbook of solar energy, theory, analysis and applications, Springer publication 2016

WEB RESOURCES

R. Wolfson, "Electricity" in Energy, Environment, and Climate, 2nd ed., New York, NY:W.W. Norton & Company, 2012, ch. 11, sec. 1, pp. 292

<https://www.gamry.com/application-notes/physechem/dssc-dye-sensitized-solar-cells/>

<https://socratic.org/questions/how-does-solar-energy-convert-the-heat-energy-into-electrical-energy>.

PATTERN OF ASSESSMENT:

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY – 25 Marks

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1x 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1x 3=3(1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100**Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

Criterion	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23VS/VM/ET26												
II	Course Title: ENERGY CONVERSION TECHNIQUES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	3	3	3	2	2	3	3
CO 2	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 3	3	3	3	2	3	3	3	3	3	3	3	3	3
CO 4	2	2	3	2	2	3	3	3	3	3	3	3	3
CO 5	2	3	3	2	3	3	3	3	2	3	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENERGY MANAGEMENT AND ENERGY AUDIT

CODE:23VS/VE/EM25

CREDITS:5

L T P: 5 0 0

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To prevent the avoidance of energy waste
- To produce goods, services with the least cost and least environmental effect
- To identify the quality and cost of various energy inputs
- To quantify energy usage according to its discrete function
- To manage usage and reduce carbon emissions

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	remember the basic need of energy management, natural gas, renewable energy policies, basic of energy audit, Indian energy scenario	K1
CO2	illustrate an insight of ecological issues, Industrial energy management, conservation acts, types of energy audit and sector wise energy consumption	K2
CO3	make use of energies, Energy Management Information Systems, labeling, economic concepts, Industry power management	K3
CO4	analyze the depletable sources, energy policies, Investment cost, long term energy scenario, load assessment	K4
CO5	evaluate the role of energy managers, load curves, sensitivity analysis, energy use by individuals	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Basic needs of energy management and ethics - Ecological issues - sustainable energy for future. 1.2 Energy scenario – Primary and Secondary Energy - Commercial and noncommercial Energy - Final energy consumption.	K1-K3	13	1-3
2	Energy Management 2.1 Natural Gas – Introduction to Natural gas markets- Future 2.2 Industrial energy management systems: Energy monitoring and targeting – Elements. 2.3 Energy consumption – production - Energy Management Information Systems (EMIS) - Economics of depletable resources	K1-K4	13	1-5
3	Energy Policy and Security 3.1 Renewable energy policies- Energy efficiency policies– Energy conservation acts – Energy Paradox 3.2 Energy Security and energy labeling - Energy pricing and impact of Global variations - Energy policy issues - Role of energy managers in industries	K1-K5	13	1-4
4	Energy Audit and Economic Analysis 4.1 Introduction-Energy Audit and its types-Introduction: Economic concepts - Measures of economic performance– Procedure for economic analysis. 4.2 Investment cost – Procedure for optimized system selection and design – Load curves - Sensitivity Analysis – Behaviour Consumption Pattern 4.3 Load Assessment – Matching Solar Production to consumption– Effect of Solar (Over Product/Under Product)	K1-K5	13	1-5
5	Energy Conservation Principles 5.1 Indian energy scenario - Sector-wise energy consumption-Energy Conservation Act 2001 5.2 Energy use by individuals and households-Energy consumption	K1-K5	13	1-5

BOOKS FOR STUDY

Jacob, Energy Policy, Nova publisher, 2009

Smith. C.B., Energy Management Principle, Pergamon Press, 2006

BOOKS FOR REFERENCE

White, L. C., Industrial Energy Management and Utilization, Hemisphere Publishers, 2002

Trivedi, P.R. and Jolka K.R, Energy Management, Common Wealth Publication, 2002

Subhes C. Bhattacharyya, Energy Economics, Springer 2011

WEB RESOURCES

<https://beeindia.gov.in/en>

MNRE website

JOURNALS

Smith. C.B. *Energy “Management Principles”*, Pergamon Press, 2006.

Subhes C. Bhattacharyya. *“Energy Economics”*, Springer 2011.

PATTERN OF ASSESSMENT

No Unit should be left out.

Continuous Assessment

Total Marks: 50

Duration: 90minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions)
	K3/K3	10	2×5 = 10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed Total Marks:50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions)
	K3/K3	20	4×5 = 20 (4 out of 6 questions)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions)
D	K5/K5	20	2×10 = 20 (2 out of 4 questions)

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code:23VS/VE/EM25												
II	Course Title: ENERGY MANAGEMENT AND ENERGY AUDIT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	3	3	3	3	2	2	3	3
CO 2	2	3	3	3	3	3	3	2	3	3	2	3	3
CO 3	2	2	3	3	3	2	3	3	3	3	2	3	3
CO 4	2	2	3	3	3	3	3	3	3	3	2	3	3
CO 5	2	3	3	3	3	2	3	3	3	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.)
PROGRAMME SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

CONSERVATION OF WATER RESOURCES: WATERSHED MANAGEMENT

CODE:23VS/VE/CW25

CREDITS: 5

L T P: 4 0 1

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand different watershed behavior
- To be able to interpret runoff data and quantify erosion by using various modeling methods
- To understand land use classification and the impact on hydrological cycle parameters
- To identify suitable cropping planning for agriculture to maximize productivity
- To investigate the water flow linkage and its movement through rainwater harvesting

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	ability to remember the fundamentals of watershed behavior, meteorological parameters, erosion, crop water management and watershed development	K1
CO2	demonstrate the extent of knowledge on effect of land use, hydrological parameters, types of erosion, crop planning and co wet management, erosion, meteorological and hydrological parameters modeling and watershed development in India	K2
CO3	identify the need for wetland management, modeling, assessment of erosion, ecological zones and guidelines of watershed	K3
CO4	examine the soil conservation service, modeling erosion, drought and its management and rainwater harvesting	K4
CO5	discuss on the behavior of beach erosion, drought cause and impacts and desilting of lakes of watershed development	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction 1.1 Introduction - watershed behavior - effects of land use and its change on hydrological cycle components - Land capability and suitability classification 1.2 Wetland management – types - hydrologic conditions and water budget - hydrological and ecological functions - Ramsar convention	K1-K3	13	CO1-3
2	Meteorological and hydrological parameters 2.1 Measurement of meteorological (temperature, wind speed, sunshine hours, atmospheric pressure, relative humidity) and hydrological (suspended sediment and bed load) parameters 2.2 Modeling - Runoff with Soil Conservation Service(SCS) methodology - modifications suggested for Indian conditions - case study	K1-K4	13	CO1-5
3	Erosion Process and its Types 3.1 Erosion process – Factors affecting erosion - types of erosion - assessment of erosion - Modeling Erosion using USLE, RUSLE, introduction to few other models - Indian studies - case study – Beach Erosion 3.2 Control measures for soil erosion – vegetative and mechanical (including design) - for agricultural and non-agricultural lands - wind erosion and its modeling - control measures	K1-K5	13	CO1-4
4.	Crop water management and Planning 4.1 Crop water management and crop planning with special reference to different agro-ecological zones in India - inclusive development or Participatory approach - water conservation practices for deserts 4.2 Drought and its management - causes and impacts - Definition, management, objectives and strategy of short term and long term measures	K1-K5	13	CO1-5
5.	Indian scenario of watershed development 5.1 Watershed development in India, Common Guidelines, Allocation of funds. 5.2 Rain Water harvesting – linking of rivers – desilting of lakes	K1-K5	13	CO1-5

BOOKS FOR REFERENCES

Common Guidelines for Watershed Development Projects (2008) Government of India
 Dhruva N.V.V. Soil and Water Conservation Research in India, New Delhi: Indian Council of Agricultural Research, KrishiAnusandhanBhavan, Pusa, 2002
 Dhruva N.V.V. Sastry G. and Patnaik U.S. Watershed Management, New Delhi: Indian Council of Agricultural Research, 1990
 James L.D. and Lee R.R. Economics of Water Resources Planning, McGraw Hill Book Company. 1971

WEB RESOURCES

<https://portal.ct.gov/DEEP/Water/Watershed-Management/Watershed-Management---Overview#:~:text=Watershed%20management%20is%20a%20term,resources%20in%20a%20comprehensive%20manner.>

<https://education.nationalgeographic.org/resource/erosion/>

http://www.agritech.tnau.ac.in/expert_system/paddy/cultivationpractices3.html

Frevert R.K. Schwab G.O., Edminster T.W. and Barnes K.K. Soil and Water Conservation Engineering, 4th Ed, New York: John Wiley and Sons, 2009.

Jain S.K. and Singh V.P. Water Resources Systems Planning and Management, New Delhi: Reed Elsevier India Pvt. Ltd., 2006

PATTERN OF ASSESSMENT

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions)
	K3/K3	10	2×5 = 10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks:50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions)
	K3/K3	20	4×5 = 20 (4 out of 6 questions)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions)
D	K5/K5	20	2×10= 20 (2 out of 4 questions)

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code:23VS/VE/CW25												
II	Course Title: CONSERVATION OF WATER RESOURCES: WATERSHED MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	2	3	3	3	2	2	3	3
CO 2	2	3	3	2	3	2	3	3	2	2	2	3	3
CO 3	2	3	3	2	3	3	3	3	3	2	2	3	3
CO 4	3	2	3	2	3	3	3	3	3	2	2	3	3
CO 5	2	3	3	2	3	3	3	3	3	2	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENVIRONMENTAL STUDIES

CODE: 23VS/UC/ES22

CREDITS : 2

L T P : 2 0 0

TOTAL TEACHING HOURS : 26

OBJECTIVES OF THE COURSE

- To create an awareness about current environmental issues
- To educate students on conservation and management of natural resources
- To encourage students to be ecosensitive and ecofriendly

Unit 1

Introduction

6hrs.)

- 1.1 Components of the Environment – Classification and Characteristics of Resources – Renewable and Non – Renewable Resources
- 1.2 Need for Public Awareness in Conservation of Natural Resources
- 1.3 Energy Flow in Ecosystems – Aquatic and Terrestrial – Food Chain and Food Web

Unit 2

Pollution and Socio Economic Aspects of the Environment

(10hrs.)

- 2.1 Types of Pollution – Air, Water, Solid Waste, Noise
- 2.2 Problems - Green House Effect – Depletion of the Ozone Layer – Climate Change
- 2.3 Bio Diversity - Definition - Loss of Bio Diversity – Threats to Biodiversity and Conservation of Biodiversity
- 2.4 Human Behaviour: - Population – Urbanization – Poverty (As Cause and Result of Pollution and Degradation)
- 2.5 Technology: Agriculture and Industry – Deforestation. Misuse and Abuse of the Resources
- 2.6 Effects and Consequences of Environmental Problems

Unit 3

Sustainable Development, Remedies and Policy Implications

(10 hrs.)

- 3.1 Environmental Disasters Natural and Human Made – Bhopal Gas Tragedy – Chernobyl Accident – Fukushima Nuclear Crisis - Gulf War – Love Canal Episode – Tsunami – Volcanic Eruptions
- 3.2 Methods Evolved to Measure and Check Environmental Degradation and Pollution – Carbon Footprint, Carbon Credit, Ecological Footprint, and Ecological Shadow
- 3.3 Environmental Movements in India – Chipko Movement, Narmada Bachao Andolan, Sethu Samudram Project
- 3.4 Environmental Acts – Policy Measures with respect to India
- 3.5 International Environmental Agreement – Stockholm Conference – Montreal Protocol – Rio Meet – Kyoto Conference – UN Conference on Climate Change (Copenhagen)

Field visit

Eco initiatives at the campus: Garbage Segregation and Vermicomposting – Greywater Recycling – Rainwater Harvesting – Solar Powered Lights – Biodiversity

TEXT BOOK

Bharucha, E. *Textbook of Environmental Studies*. Hyderabad: Universities Press, 2005.

REFERENCE BOOKS

Ignacimuthu, S. *Environmental Awareness and Protection*. New Delhi: Phoenic House, 1997.

Jadhav, H and V. M. Bhosale. *Environmental Protection and Law*. New Delhi: Himalaya, 1995.

Odum, E.P. *Fundamentals of Ecology*. U.S.A: W.B. Saunders, 1971.

Mies, M and V. Shiva. *Ecofeminism*, London: Zed Books, 1989.

Singh, H.R. *Environmental Biology*. New Delhi: S.Chand, 2005.

PATTERN OF EVALUATION

Continuous Assessment: (Totally internal)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**General Elective Course offered by the Department of Computer Science to
B.Voc. Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

DOCUMENTATION AND PRESENTATION

CODE: 23CS/UE/DP22

CREDITS :2

L T P: 1 0 1

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To give students the knowledge and understanding to prepare formatted documents and powerful presentations
- To provide hands-on use of Microsoft Office applications
- To familiarize the basics and advanced concepts of Word and PowerPoint
- To understand the method of protecting documents

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	create a document with proper formatting	K1
CO2	create personal, academic and business documents following current industry standards	K2
CO3	create a presentation in Microsoft PowerPoint that is interactive with legible content and apply Designs to Enhance the feel of the Presentation. Protect the documents and limit the access.	K3

UNIT	CONTENT	CL	HRS	CO
1	1.1 Word Processing Introduction – The Style Advantage, Outlining, - Autocorrect – Compatibility with previous versions of word –Drawing Canvas –Styles and Character/Font Formatting – Bullets and Numbering –Character Formatting – Paragraph Formatting –Styles and paragraph Formatting, Structural Formatting, paragraph Decoration – Find, Replace and GO To – Language Tools –Auto Correct – Auto Format –Tables – Pictures and SmartArt – Headers and Footers	K1-K3	4	1-3

UNIT	CONTENT	CL	HRS	CO
2	2.1 Advanced Word Processing Symbols and Equations –Charts –Inserting Objects and Files –Blogging-Templates and Themes – Bookmarks –Tables of Contents – Footnotes and Endnotes -Citations and Bibliography –Indexing –Table of Authorities – Hyperlinks and Cross-References –Envelopes and Labels -Data Documents and Mail Merge –The Ribbon -Security, Tracking and Comments –Protection Type- Integration with other office Applications –Excel, PowerPoint	K1-K3	10	1-3
3	3.1 Presentation Tool Introduction to PowerPoint – Changing the view – Creating a good presentation- Creating and saving Presentation Files –Creating New Slides and Text Boxes – Working with Layout, Themes and Masters – Formatting Text –Formatting Paragraphs –Correcting and Improving Text –Creating and Formatting Tables- Creating SmartArt Diagrams–Importing Image Files into PowerPoint – Compressing Images –Creating a Photo Album Layout- Working with Charts – Working with External Content- Copying Content from Other Programs - Adding Sound Effects, Music and Soundtracks –Creating Animation Effects and Transitions –Creating Support Materials –Preparing for a Live Presentation – Limiting User Access to a Presentation	K1-K3	12	1-3

BOOKS FOR STUDY

Herb Tyson. Microsoft® Word 2010 Bible. Wiley Publishing, Inc.
 Lisa A. Bucki. Word 2013 Bible. Wiley Publishing, Inc.
 Faithe Wempen. PowerPoint 2013 Bible. Wiley Publishing, Inc.

BOOKS FOR REFERENCE

Lambert Joan. Microsoft Word 2016 Step by Step 1st ed. Microsoft Press.2016.
 Price Michael. McGrath Mike Office 2016 Step by Step 1st ed. Microsoft Press 2016.
 Freedman J. Microsoft Word 2013 Plain & Simple 2013. Microsoft Press
 Echo Swinford. My PowerPoint 2016.Pearson education

WEB RESOURCES

<https://www.microsoft.com/learning/en-us/book.aspx?ID=9600&locale=en-us>

https://www.dit.ie/media/ittraining/msoffice/MOAC_Word_2016_Core.pdf

PATTERN OF ASSESSMENT

Only Internal Assessment

Total of component I and component II will be taken as internal assessment

Component 1 – 25 marks

Preparing a detailed report for a College Event

Component 2 – 25 marks

Creating a presentation on the topic chosen in the component I and including data from the report appropriately

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SYLLABUS**

(Effective from the academic year 2023 – 2024)

SOFT SKILLS

CODE: 23VS/US/SS22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To equip students with competencies to achieve personal and academic excellence
- To raise confidence levels

Unit 1

Self Awareness

(5hrs.)

- 1.1. Knowing One's Strengths and Weaknesses
- 1.2. Self-esteem and Self-worth

Unit 2

Work place Behavioural Training

(6hrs.)

- 2.1 Listening Skills
- 2.2 Interpersonal Skills
- 2.3 Team Work and Group dynamics
- 2.4 Personal Effectiveness
- 2.5 Creative Thinking

Unit 3

Planning Ahead

(5hrs.)

- 3.1 Time Management
- 3.2 Goal Setting

Unit 4

Career Mapping

(5hrs.)

- 4.1 Concept of Career
- 4.2 Career Options
- 4.3 Choice of Right Career

Unit 5

Adaptability Skills

(5hrs.)

- 5.1 Working independently
- 5.2 Working as a team
- 5.3 Multi-tasking
- 5.4 Innovation
- 5.5. Adapting to Change and Criticism

PATTERN OF EVALUATION

Continuous Assessment: (Totally internal)

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

BIO ENERGY

CODE:23VS/VM/BE36

CREDITS:6

L T P: 303

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To know the significance and classification of Biomass energy
- To gain a fundamental knowledge of principles for the conversion of biomass to renewable energy
- To be able to identify woody biomass properties influencing utilization
- To learn about the types and understand the various models of biogas plant
- To assess the biogas engine and future prospects of Biomass energy

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	learn the concepts of biomass, its characteristics, classification and assessment.	K1
CO2	understand the significance of biomass energy, urban waste to energy, incineration, Anaerobic fermentation.	K2
CO3	determine the composition of landfill gas, land fill collection system, Aquatic biomass and its resources.	K3
CO4	analyze the biomass conversion techniques, bio products, biogas in India.	K4
CO5	demonstrate the types of biogas plant, comparative study of different types of biogas plant, Advantages and limitations.	K5&K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Biomass energy resources and conversion processes 1.1 Definition of Biomass, significance of biomass energy. Biomass – Origin of Biomass – Biomass energy resources, identification of biomass in the environment 1.2 Characteristics-methods of determination - proximate analysis and ultimate analysis, Determination of total solids and volatile solids 1.3. Classification of the Biomass resources – agricultural residues, herbaceous biomass, woody biomass, vegetable wastes, Assessment of biomass-Primary and secondary applications	K1-K6	7	1-5
2	Biomass Energy from wood 2.1 Introduction to Incineration: Urban waste – to – energy by incineration process – Schematic process of a waste incineration energy plant – Merits and Demerits, Factors affecting biogas production 2.2 Processing of wood and wood waste for incineration plant 2.3 Raw biomass materials for conversion to biogas – Agricultural waste and agricultural energy crops 2.4 Anaerobic fermentation process used in biogas plants	K1-K6	8	1-5
3	Landfill and other sources of biofuel 3.1 Landfill gas- Applications of Landfill gas, Composition of landfill gas- Collection system for landfill Gas (Field visit and training) 3.2 Aquatic biomass – Resources of aquatic biomass – algae –water hyacinth –ocean kelp	K1-K5	8	1-5
4	Biomass conversion techniques and bio products 4.1 Biomass conversion techniques like Electrochemical, Thermochemical: Pyrolysis, Gas combustion, Liquefaction, Biochemical 4.2 Introduction to bio products along with biochar 4.3 Advantages and disadvantages of Biogas –Biogas scenario in India – future prospects.	K1-K5	8	1-3
5	Biogas Plants 5.1 Biogas plant – types of biogas plants – Floating Dome type biogas plants – KVIC model, PRAGATI model , Ferro cement model, Fibre glass reinforced model - Advantages and limitations 5.2 Fixed dome type- Janata model, Deenabandhu model – Advantages and limitations 5.3 Comparative study of various models of Biogas plants	K1-K6	8	1-5

Practical Components (39 hours)

1. Identification of different biomass sources in the environment
2. Estimation of total solid and volatile solid in different types of biomass
3. Determination of density of the given biomass
4. Estimation of percentage of moisture and ash content for different types of biomass
5. Estimation of fixed carbon of the given biomass
6. Assessment of energy output of various biomass
7. Anaerobic fermentation
8. Biogas Plant Visit

BOOKS FOR STUDY

G. Lorenzini, C. Biserni, G. Flacco, Solar Thermal and Biomass Energy WITPRESS WIT Press publisher, 2010.
Vijai Kumar Gupta, Microbial Enzymes in Bioconversions of Biomass (Biofuel and Biorefinery Technologies Book 3), 2016.
Sachin Kumar, Rajesh K. Sani, Biorefining of Biomass to Biofuels: Opportunities and Perception (Biofuel and Biorefinery Technologies Book 4), 2018.
Himadri Panda, Complete Technology of Biomass, Chemicals from Biomass, Biofuels and Biodiesels: Manufactue Hand Book, 2018.
Jay. J. Cheng, Biomass to Renewable Energy Processes, 2016.

BOOKS FOR REFERENCES

Rao.S and Parulekar. Energy technology. New Delhi: Khanna publishers, 1997.
Thipse S.S. Non- conventional and renewable energy sources New Delhi: Narosa Publications, 2014.
Gupta K.C, Energy and Environment in India Gyan Publishing house, 2002.

WEB RESOURCES

[https://www.ijraset.com/research-paper/factors-affecting-biogas-production#:~:text=There%20are%20several%20factors%20such,\)%2C%20inhibitory%20substances%2C%20etc.](https://www.ijraset.com/research-paper/factors-affecting-biogas-production#:~:text=There%20are%20several%20factors%20such,)%2C%20inhibitory%20substances%2C%20etc.)
<https://www.eesi.org/topics/bioenergy-biofuels-biomass/description>
<https://justenergy.com/blog/bioenergy-biofuels-biomass-what-they-are-how-we-use/>
National Renewable Energy Laboratory (NREL) Home Page - NREL

PATTERN OF ASSESSMENT:**Continuous Assessment:****Marks: 50****Duration: 3 hours****THEORY – 25 Marks**

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1x 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1x 3=3(1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

CRITRION	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/BE36												
	Course Title: BIO ENERGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	2	2	3	3	3	2	3	3	3
CO 2	3	3	3	2	2	2	3	3	3	2	2	3	3
CO 3	3	3	3	2	3	2	3	2	3	2	2	3	3
CO 4	2	3	3	2	3	3	3	3	3	2	3	3	3
CO 5	2	3	3	2	3	3	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

WASTE MANAGEMENT

CODE:23VS/VM/WM36

CREDITS:6

L T P:303

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To identify different types of waste, collect and segregate as per standard operating procedures
- To identify different processes of waste management
- To understand the need for maintaining health and safety at workplace
- To reduce the environmental hazards that arise from indiscriminate dumping of waste
- To generate energy or obtain new materials from waste

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	show different types of waste, waste treatment, processing food waste, types of hazards, resource reduction	K1
CO2	outline the properties of solid waste, incineration, categories of food waste, safety measures, Recycle	K2
CO3	articulate waste minimization, Sanitary landfills, energy generation from food processed waste, Infectious waste, waste reduction	K3
CO4	evaluate recycling municipal waste, solid waste disposal, reduction of BOD and COD in waste water, hazards from genotoxic waste, usage of slurry and vermicomposting	K4
CO5	categorize the color codes of different waste, segregate the waste, properties of waste, waste audit, waste treatment	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Solid Waste 1.1 Definitions; Sources, types, composition, Signs, symbols and color codes for different types of solid wastes 1.2 Types and properties of Solid Waste; Municipal Solid Waste. Domestic wastes, industrial wastes and hazardous wastes, Bio medical waste, construction waste, E-waste, inert material 1.3 Collection, transfer stations; Segregation at the collection centers, Waste minimization and recycling of municipal waste	K1-K6	16	1-3
2	Waste Treatment 2.1 Waste Treatment – Physical, chemical and biological treatment 2.2 Incineration: Classification – batch type, continuous type, measures to mitigate environmental effects 2.3 Sanitary landfills – classification, Types, methods & siting consideration, waste land development, leachate and its handling 2.4 Solid waste Management : Composting – Aerobic and Anaerobic - Sanitary landfills and size reduction-different approaches to waste management-urban and rural	K1-K6	20	1-5
3	Food processing Wastes 3.1 Significance of handling Food processing waste 3.2 Categories of waste from fruits and vegetable processing, sugar, starch and confectionary, grains, legumes and oilseeds 3.3 Energy generation from different types of food processing wastes- mango peel, citrus, tomatoes, pine apple, banana, reduction of BOD and COD in waste water	K1-K6	16	1-4
4	Safe management of wastes 4.1 Overview of hazards; Types of hazards, Health Safety policies 4.2 Potential impact of waste on environment and human health-judicious use of plastics 4.3 Hazards from: infectious waste and sharps, chemical and pharmaceutical waste, genotoxic waste, Hazards from radioactive waste	K1-K6	16	1-5

UNIT	CONTENT	CL	Hrs	CO
5	Waste Management 5.1 Waste minimization techniques: Resource Reduction, Reuse and recycling of wastes- Waste minimization audit 5.2 Domestic waste management and plastic waste management-concept of zero waste 5.3 Usage of slurry from sewage treatment plant, vermicomposting	K1-K6	10	1-5

Practical Component [39 hours]

1. Design of decentralized waste management plants of different capacities (IT / Commercial building / Industry / Urban Local Bodies).
2. Segregation of dry waste (Paper / Plastics / Metals / Glass).
3. Survey and understand door to door waste collection process.
4. Bioenzyme production from the fruit peels waste.
5. Preparation of liquid fertilizer from the ripened fruit wastes.
6. Setting up of compost unit and assessment.
7. Compost analysis.
8. Water quality assessment.
9. Waste water generation and analysis.

BOOKS FOR STUDY

Ismail, S.A., 2009, The Earthworm Book, Banyan Tree, Indore, India.
Waste Management Practices Municipal, Hazardous, And Industrial. Business second edition, John Pichtel, CRC press 2014.
 S.Rao, Dr. B.B. Parulekar, Energy Technology, Khanna Publishers

BOOKS FOR REFERENCE

Sunil Khanna, Krishnamohan, *Wealth from waste*, Tata Energy Research Institute, 2006
 Gupta, P.K. *Vermicomposting for Sustainable Agriculture*. India: Agrobios. 2004.

WEB RESOURCES

<https://www.conserve-energy-future.com/waste-management-and-waste-disposal-methods.php>

BOOKS FOR REFERENCE (PRACTICAL)

Waste Management Practices Municipal, Hazardous, And Industrial. Business second edition, John Pichtel, CRC press 2014.
 S.Rao, Dr. B.B. Parulekar, Energy Technology, Khanna Publishers

PATTERN OF ASSESSMENT:**Continuous Assessment:****Marks: 50****Duration: 3 hours****THEORY – 25 Marks**

Section	Knowledge Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (All questions to be answered)
B	K2/K2	3	$1 \times 3 = 3$ (1 out of 2 questions internal choice)
	K3/K3	3	$1 \times 3 = 3$ (1 out of 2 questions internal choice)
C	K4/ K4	4	$1 \times 4 = 4$ (1 out of 2 questions internal choice)
D	K5/K5	5	$1 \times 5 = 5$ (1 out of 2 questions internal choice)
	K6/K6	5	$1 \times 5 = 5$ (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (All questions to be answered)
B	K2/K2	6	$2 \times 3 = 6$ (2 out of 4 questions internal choice)
	K3/K3	6	$2 \times 3 = 6$ (2 out of 4 questions internal choice)
C	K4/ K4	8	$2 \times 4 = 8$ (2 out of 4 questions internal choice)
D	K5/K5	10	$2 \times 5 = 10$ (2 out of 4 questions)
	K6/K6	10	$2 \times 5 = 10$ (2 out of 4 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

CRITERION	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/WM36												
	Course Title: WASTE MANAGEMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	3	2	3	2	3	2	3	3	3
CO 2	3	3	2	3	3	2	3	3	3	2	3	3	3
CO 3	2	3	3	3	3	3	3	3	2	2	3	3	3
CO 4	2	2	3	3	3	3	3	3	2	2	3	3	3
CO 5	3	2	3	3	3	3	3	3	3	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENVIRONMENT AND ECOLOGY

CODE: 23VS/VA/EN35

CREDITS: 5

L T P: 4 0 1

TOTAL TEACHING HOURS: 65

OBJECTIVES OF THE COURSE

- To understand the global climatic change and the sustainable initiatives
- To know about the policies and Acts to control and prevent pollution
- To understand the role of environment in ecological context
- To perceive urbanization development and protecting environment
- To plan equitable use of resources as a community

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	relate the occurrence of global warming, pollution, basics of ecology, wood structure food security, urbanization, human health and human rights on environmental sustainability	K1
CO2	illustrate climate change, microbial degradation, energy from waste, carbon foot printing and valuing nature and culture to safeguard the environmental values	K2
CO3	identify sustainable development, impacts due to air and water pollution, water related diseases, nutrition health by implementing solutions for energy management	K3
CO4	categorize biomass accumulation, fermentation mechanic, economic policies, environment laws, environment and human health and social justice for sustainable energy	K4
CO5	develop the idea of net energy production by plants and wood, biomass conversion to energy for sustainable environment	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 – Create		

UNIT	CONTENT	CL	Hrs	CO
1	Global climate change 1.1 Introduction- climate change- global warming- Climate modeling 1.2 Pollution- Types, causes, consequences and control measures 1.3 Sustainable development in the context of environmental upkeep	K1-K3	14	1-3
2	Elements of Ecology and Biomass 2.1 Basics of ecology, Inter dependence of different species Basic elements of biomass accumulation, Microorganism types, growth and nutrition 2.2 Ecological aspects of microbial degradation, degradation of cellulose, net energy production by plants, wood structure and wood chemistry 2.3 Fermentation- Aerobic /Anaerobic microorganism involved mechanism	K1-K5	14	1-5
3	Environmental & Economic Impacts of Bioenergy 3.1 Principles, Production and assessment of impacts due to air and water pollution on the environment 3.2 Food security and environmental impacts of biomass conversion to energy- energy from waste 3.3 Economic policies and environmental laws in the Indian context	K1-K5	14	1-5
4	Human population and the environment 4.1 Global population growth- population explosion- Urbanisation. 4.2 Environment and human health- climate and health- infectious diseases- water related diseases- risk due to chemical in food- cancer and environment 4.3 Carbon Foot printing	K1-K4	14	1-4
5	Human rights 5.1 Nutrition health and human rights- intellectual property rights- community biodiversity registers 5.2 Ethics- environmental values – valuing nature – valuing culture- social justice – equitable use of resources	K1-K4	9	1-4

BOOKS FOR STUDY

Pranav Kumar, Fundamentals of Ecology and Environment, 2021.
Ian Lerche (Author), Walter Glaesser, Environmental Risk Assessment: Quantitative Measures, Anthropogenic Influences, Human Impact, 2006.
Bharucha, Erach. Textbook of Environmental Studies for Undergraduate Courses, (2nd ed.) Universities Press, 2013.
Bhattacharya, K.S. Arunima Sharma, Comprehensive Environmental Studies Narosa Publishing House Pvt.. Ltd., New Delhi, 2015.

BOOKS FOR REFERENCES

Gupta K.C, Energy and Environment in India Gyan Publishing house, 2002.
Neeraj Nachiketa, Environment & Ecology, 2019.
Dara S.S. (Author), Mishra D.D. (Author), A Text Book Of Environmental Chemistry & Pollution Control, 2004.

WEB RESOURCES

<https://www.cbd.int/impact/whatis.shtml>
https://books.google.co.in/books?hl=en&lr=&id=kuWv6ovE4qoC&oi=fnd&pg=PR7&dq=environment+and+ecology&ots=qM-VeUw4HO&sig=6MCHxrV-1Q6wpHRzu9dJXGDxGQw&redir_esc=y#v=onepage&q=environment%20and%20ecology&f=false
<https://www.sciencedirect.com/science/article/abs/pii/S0921800995000437>
<https://www.sciencedirect.com/>
<https://scholar.google.com/>

PATTERN OF ASSESSMENT

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions)
	K3/K3	10	2×5 = 10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks:50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions)
	K3/K3	20	4×5 = 20 (4 out of 6 questions)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions)
D	K5/K5	20	2×10= 20 (2 out of 4 questions)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VA/EN35												
	Course Title: ENVIRONMENT AND ECOLOGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	2	2	2	2	3	3	3	3	2	3	3
CO 2	2	2	3	2	3	2	3	3	3	2	2	3	3
CO 3	3	2	3	3	2	2	3	3	3	3	2	3	3
CO 4	2	3	3	2	3	3	3	3	3	3	2	3	3
CO 5	2	3	3	2	3	3	3	3	3	3	2	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

BANKING PRACTICES

CODE: 23CM/UE/BP22

CREDITS: 2

L T P: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE

- To educate the students on the banking services
- To provide an opportunity to understand the significance of E-banking services.
- To acquire knowledge on negotiable instruments

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	to understand the opening and closing of bank accounts	K1
CO2	identify the various E-banking services	K2
CO3	comprehend knowledge on negotiable instruments	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	Hrs	CO
1	CUSTOMERS' ACCOUNTS WITH THE BANK 1.1 Opening of Bank Accounts. 1.2 Different Types of Bank Accounts. 1.3 Documents Relating to Transactions with Bank. 1.4 Closing of Bank Accounts	K1-K3	6	1-3
2	E- BANKING 2.1 Meaning and Importance. 2.2 Credit Card, Debit Card, Smart Card. 2.3 Internet Banking – Services and Major Issues. 2.4 ATM – Concept, Features and Importance. 2.5 Mobile Banking and Telebanking	K1-K3	10	1-3
3	NEGOTIABLE INSTRUMENTS 3.1 Meaning, Characteristics. 3.2 Types of Negotiable Instruments	K1-K3	10	1-3

UNIT	CONTENT	CL	Hrs	CO
	3.2.1 Cheque – Requirement of a Cheque. 3.2.2 Post-dated Cheque, Stale Cheque, Ante-dated Cheque. 3.2.3 Crossing- Meaning, Types and Significance. 3.2.4 Endorsement- Types and Significance			

TEXT BOOKS

Gurusamy S. *Banking Theory Law and Practice*. 2nd ed. Chennai: Vijay Nicole, 2012.
Sundharam K.P.M. and P.N Varshney. *Banking Theory Law and Practice*. 18th ed. New Delhi: Sultan Chand, 2012.

BOOKS FOR REFERENCE

Bihari, SC. *E-Banking*. 1st ed. SkyLark, 2007.
Gordon E. and K.Natarajan. *Banking Theory Law and Practice*. 19th ed. Mumbai: Himalaya, 2012.
Gordon E., Natarajan K. *Emerging Scenario in Financial Services*. Mumbai: Himalaya, 2006.
Rajesh R., T. Sivagnanasithi. *Banking Theory Law and Practice*. New Delhi: Mc Graw Hill, 2009.
Taxmann. *Guide To Negotiable Instruments Act*. Taxmann, 2003.

JOURNALS

Journal of Banking and Finance
Banking and Financial Services – The Business
Journals International Journal on Electronic Banking

WEB RESOURCES

www.academia.edu
www.lawhandbook.sa.gov

PATTERN OF ASSESSMENT

Continuous Assessment: **Total Marks: 25** **Duration: 60 minutes**

Section	Cognitive Level	Mark Allocation	No. of Questions
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

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**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ADVANCED BIO ENERGY

CODE:23VS/VM/AB46

CREDITS:6

L T P: 3 0 3

TOTALTEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To gain knowledge on the different types of raw material that can be used for bio-energy generation
- To be able to plan, and install a biogas plant
- To be able to troubleshoot and maintain a biogas plant
- To understand the health and effect of the Environment on sustainability
- To design and construct types of biogas stove

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	remember the advanced bioenergy concepts, biogas production, biogas plant, health and environment,biogas stove	K1
CO2	evaluate the bioenergy classifications, biogas phases, estimation of biogas plant capacity, sustainability on environment and use of biogas stove.	K2
CO3	refine the conceptual design of bioconversion, factors affecting biogas production, maintenance of biogas plant, public health impact and types of biogas stoves	K3
CO4	understand the importance of biobased products, feedstocks for biogas production, installation of biogas plants, bio gas cleaning systems	K4
CO5	apply principles of bio materials and conversion, organic components, safety of biogas plant and construction of biogas stove and construction of biomass gas stove	K5&K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Bioenergy Concepts 1.1 Introduction-biomass, definition, classification- Biopower, Bioheat - Solid, Liquid and Gaseous biofuels 1.2 Bioconversion-aerobic and anaerobic -anaerobic digestion for methane production - microbial activities 1.3 Biobased products - Adhesives, Construction materials and composites, Landscaping materials, Plants and vegetable sinks	K1-K6	7	1-3
2	Biomass Production 2.1 Biogas production process- phases- Hydrolysis, Acidogenesis, Acetogenesis, Methanogenesis. 2.2 Factors affecting biogas production Different feedstocks for biogas production- first second and third generation, Residue Feedstock 2.3 Agricultural waste - Forestry waste, Organic components of residential, commercial, institutional and industrial waste	K1-K6	8	1-5
3	Biogas Plant Installation 3.1 Biogas Plant- Estimation of plant capacity and construction guidelines and gas conveyance system 3.2 Operation, maintenance and safety measures of the biogas plant 3.3 Slurry handling, utilization and enrichment, Slurry analysis, Biogas purification and utilization, composting methods	K1-K6	8	1-5
4	Health & Environmental Issues of Bio energy 4.1 Understanding sustainability & Effect of Environment on sustainability 4.2 Public sensitivity, Public health impact	K1-K3	8	1-3
5	Biogas Stove 5.1 Study and use of biogas stove and dual fuel engines 5.2 Study of different types of stoves and gas cleaning systems 5.3 Construction of biomass gas stove and study	K1-K6	8	1-5

Practical Components [39 Hours]

1. Evaluation of amount of energy given off in a combustion reaction by a Biomass-Water Boiling Test (WBT)
2. Performance and evaluation of different stoves
3. Estimation of standard enthalpy of ethanol
4. Site selection and estimation of the plant capacity of a biogas plant
5. Determination of pH
6. Setting up of a biogas plant out of the given components
7. Model construction of biogas plant
8. Assessment of safety measures
9. Construction of biogas stove
10. Study of different types of stove

BOOK FOR STUDY

Thipse S.S. *Non- conventional and renewable energy sources* New Delhi: Narosa Publications, 2014
Gupta K.C, *Energy and Environment in India* Gyan Publishing house, 2002 Rao.Sand Parulekar. *Energy technology*. New Delhi: Khanna publishers, 1997
Cheng, J.J, *Biomass to Renewable Energy Processes*, CRC Press, USA , 2009.

BOOKS FOR REFERENCE

Rao.Sand Parulekar, *Energy technology*, New Delhi: Khanna publishers, 1997
Seveda, M.S., Narale, P.D., Kharpude, S.N., *Advances in Bioenergy Engineering*, Narendra publishing house 2022
Nidhi Adlakha, Rakesh Bhatnagar, Syed Shams Yazdani, *Biomass for Bioenergy and Biomaterials*, CRC press 2022

WEB RESOURCES

https://www.tutorialspoint.com/renewable_energy/bio_energy_biomass_production.htm
https://energypedia.info/wiki/Biogas_Stoves
<https://www.nrel.gov/research/re-biomass.html>

BOOKS FOR REFERENCE (PRACTICAL)

Cheng, J.J, *Biomass to Renewable Energy Processes*, CRC Press, USA , 2009.

PATTERN OF ASSESSMENT:

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY – 25 Marks

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1× 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1× 3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:
THEORY

Total Marks: 100
Marks: 50

Duration: 5 hours
Duration: 2 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

PRACTICAL

Marks: 50

Duration: 3 hours

CRITRION	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/AB46												
	Course Title: ADVANCED BIO ENERGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	3	2	2	3	3	3	2	3	3	3
CO 2	3	3	3	3	2	2	3	3	3	2	3	3	3
CO 3	3	2	3	2	3	3	3	3	2	2	3	3	3
CO 4	3	2	3	3	3	3	3	3	2	2	3	3	3
CO 5	3	3	3	2	3	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

BIOFUELS

CODE:23VS/VM/BF46

CREDITS:6

L T P: 303

TOTALTEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To develop basic understanding of renewable energy engineering and role of biofuels
- To explore the increasing role of renewable energy engineers to address growing energy needs
- To encourage the students a substantial knowledge of biofuel production technologies.
- To provide the knowledge about properties, composition, features of bio fuels and uses of biomass and their environmental impacts.
- To educate the methods of production of biodiesel

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	outline the understanding of Biofuels, principle of thermochemical conversion, chemistry of biodiesel, types and generations of biodiesel	K1
CO2	summarize the cultivation process, gasification types, characteristics of vegetable oil, oil source of the biofuel, Bioethanol production process	K2
CO3	make use of energy plantation, mini gasifier, production technology of biodiesel, by product of biodiesel, biohydrogen	K3
CO4	analyze policy issues, scrubbers, post production, storage of biodiesel, biodiesel from Algae	K4
CO5	determine the importance of vegetable oil, thermochemical conversion, testing parameters, testing gasifier and biorefinery concepts	K5,K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Biofuel Crops 1.1 Introduction and classification of Biodiesel, Different types of biofuel crops 1.2 Cultivation practices of biofuel crops, Energy plantation 1.3 Energy scenario, policy issues and importance of vegetable oil based biodiesel	K1-K3	10	1-3
2	Principles of Thermochemical Biomass Conversion Processes 2.1 Thermochemical conversion - principles and types, combustion and types 2.2 Gasification -principles--types(Fluidized, updraft, downdraft and cross draft) 2.3 Scrubbers-types, methods and selection, Biomass Densification and utilization	K1-K4	18	1-5
3	Biofuels 3.1 Processing of oil seeds, Chemistry of biodiesel- Transesterification. 3.2 Properties of Biodiesel and testing 3.3 Characteristics of vegetable oil 3.4 Storage of biodiesel- Standards and emission norms of biodiesel	K1-K6	18	1-4
4	Biodiesel plant 4.1 Fabrication of mini plant for biodiesel production-different types of biodiesel production processes 4.2 Fuel Production of biodiesel from different oil- Oil extraction-Oil Refining 4.3 By product of biodiesel production process and utilization 4.4 Laboratory analysis of Biodiesel (Cetane number, Kinematics Viscosity, Caloric Value and Flash point)	K1-K6	18	1-5
5	Other Biofuels 5.1 First, second and third generation biofuels 5.2 Bioethanol production process, Bio hydrogen production 5.3 Biodiesel from algae and other oceanic species, its merits and demerits 5.4 Biorefinery concepts and advantages	K1-K6	14	1-5

Practical Component [39 hours]

1. Characteristics of different types of feedstock
2. Determination of density of different fuel on Biofuels
3. Determination of viscosity of Biofuels
4. Sensory, Physical appearance and Identification of different Biofuels
5. Cloud point and Pour and point measurement of Biodiesel
6. Estimation of standard enthalpy of ethanol
7. Determination of effect of temperature on density of different fuels
8. Estimation of soap content in the Biodiesel - Quality Test
9. Model construction and assembling of various gasifiers
10. Estimation of acid number of different types of fuels

BOOKS FOR STUDY

Anju Dahiya, *Bioenergy Biomass To Biofuels*, Elsevier Publishing Company, 2015
 Cheng,J,J, *Biomass to Renewable Energy Processes*, CRC Press, USA , 2009Rao.S and Parulekar.
Energy technology.New Delhi: Khanna publishers, 1997

BOOKS FOR REFERENCE

Gupta K.C, *Energy and Environment in India* Gyan Publishing house, 2002
 Ashok Pandey, *Biomass Biofuels Biochemicals*, academic 2019
 Wereko-Brobby C.Y, *Biomass conversion and technology*, John wiley - New York, 1997

BOOKS FOR REFERENCE (PRACTICAL)

Cheng,J,J, *Biomass to Renewable Energy Processes*, CRC Press, USA , 2009Rao.S and Parulekar.
Energy technology.New Delhi: Khanna publishers, 1997
 Thipse S.S. *Non- conventional and renewable energy sources* NewDelhi: Narosa Publications, 2014
 Anju Dahiya, *Bioenergy Biomass To Biofuels*, Elsevier Publishing Company, 2015

WEB RESOURCE

<https://www.drishtiias.com/to-the-points/paper3/biofuels-1>
<https://krishijagran.com/agripedia/what-are-biofuel-crops-or-energy-crops/>

PATTERN OF ASSESSMENT:

Continuous Assessment:
THEORY – 25 Marks

Marks: 50

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1x 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1x 3=3(1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed **Total Marks: 50**
 Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination: Total Marks: 100 **Duration: 5 hours**
THEORY Marks: 50 **Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

PRACTICAL **Marks: 50** **Duration: 3 hours**

CRITERION	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/BF46												
	Course Title: BIO ENERGY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	2	3	3	3	3	2	2	3	3
CO 2	3	3	2	2	2	3	3	3	3	2	3	3	3
CO 3	3	3	2	3	3	3	3	3	3	2	3	3	3
CO 4	3	2	2	3	3	3	3	3	2	2	3	3	3
CO 5	3	3	3	2	3	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

MICROBIAL FUEL CELLS

CODE:23VS/VA/MF45

CREDITS:5

L T P: 4 0 1

TOTAL TEACHING HOURS:65

OBJECTIVES OF THE COURSE

- To gain fundamental knowledge in the development of fuel cell and microbial fuel cells
- To understand hydrogen energy perspectives and safety issues
- To determine various characterization techniques and computer modeling fuel cell
- To analyze different principles, working procedures of microbial fuel cells
- To create and rank the application of microbial fuel cell in power generation

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	Find the need, electro catalysis, safety issues, in situ and ex-situ characterization techniques of fuel cell and principle of microbial fuel cell and bioelectricity for various applications	K1
CO2	Describe microbial cell, charge and mass transport, life cycle analysis, need for characterization of fuel cell, component of microbial fuel cell, bio hydrogen production for further applications and Electrogenic Microbes	K2
CO3	Illustrate types of fuel cell, hydrogen source, cost expectation, I-V curve, comparative study of microbial fuel cell and traditional fuel cell and MFC in bio sensor for energy utility	K3
CO4	Compose fuel cell modelling, analytical solutions, working of MFC for alternative solution for energy management	K4
CO5	Create and construct MFC, waste water treatment for energy generation	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Overview of fuel cells 1.1 Need of fuel cell -History of Fuel Cells 1.2 Types of fuel cells - low and high temperature fuel cells 1.3 Microbial fuel cells – Introduction	K1-K3	13	1-3
2	Charge and mass transport of conventional fuel cells 2.1 Electro catalysis – activation kinetics – hydrogen source 2.2 Fuel cell charge and mass transport – flow field, transport in electrode and electrolyte 2.3 Safety issues -cost expectation - life cycle analysis of fuel cells	K1-K3	13	1-4
3	Characterization techniques of fuel cell 3.1 Need for characterization of fuel cell 3.2 In-situ and ex-situ characterization techniques, IV curve, frequency response analysis 3.3 Fuel cell modelling and system integration: -1D model – analytical solution and CFD models	K1-K4	13	1-4
4	Microbial fuel cells 4.1 Principle and components of microbial fuel cells 4.2 Construction and working of microbial fuel cells- Electrogenic Microbes- Aerobic and Anaerobic Bacteria, Fungi and Algae 4.3 Microbial fuel cells vs Traditional fuel cells-comparative study	K1-K5	13	1-5
5	Applications of Microbial Fuel Cells 5.1 Generation of bioelectricity. 5.2 Commercial waste management, Biohydrogen production 5.3 Wastewater treatment. 5.4 Application of MFCs in biosensor	K1-K5	13	1-5

BOOKS FOR STUDY

B Viswanathan, M AuliceScibioh, Fuel Cells: Principles And Applications, 2006.
 Johannes Töpler, Jochen Lehmann, Hydrogen and Fuel Cell: Technologies and Market Perspectives, 2015.
 Srinivasan, S. Fuel Cells: From Fundamentals to Applications, Springer, 2006
 O'Hayre, S. W. Cha. W. Colella and F. B. Prinz. Fuel Cell Fundamentals, Wiley, 2005
 Bard, A.J and L. R. Faulkner. Electrochemical Methods: Fundamentals and Applications. 2nd Edition, Wiley 2000

BOOKS FOR REFERENCES

Xianguo Li. Principles of Fuel Cells, Taylor and Francis, 2005

Larminie, J and A. Dicks. Fuel Cell Systems Explained, 2nd Edition, Wiley, 2003

WEB RESOURCES

[https://www.energy.gov/eere/fuelcells/fuel-](https://www.energy.gov/eere/fuelcells/fuel-cells#:~:text=A%20fuel%2C%20such%20as%20hydrogen,creating%20a%20flow%20of%20electricity.)

[cells#:~:text=A% 20fuel% 2C% 20such% 20as% 20hydrogen,creating% 20a% 20flow% 20of% 20electricity.](https://www.energy.gov/eere/fuelcells/fuel-cells#:~:text=A%20fuel%2C%20such%20as%20hydrogen,creating%20a%20flow%20of%20electricity.)

<https://www.sciencedirect.com/>

<https://scholar.google.com/>

PATTERN OF ASSESSMENT

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions)
	K3/K3	10	2×5 = 10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks:50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions)
	K3/K3	20	4×5 = 20 (4 out of 6 questions)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions)
D	K5/K5	20	2×10= 20 (2 out of 4 questions)

Mapping of Course Outcomes (COs)

to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

Semester	Subject Code: 23VS/VA/MF45												
	Course Title: MICROBIAL FUEL CELLS												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	3	3	2	2	2	3	3	3	2	2	3	3
CO 2	3	2	3	2	2	3	3	3	3	2	2	3	3
CO 3	3	3	3	2	3	3	3	3	3	2	3	3	3
CO 4	2	2	3	2	3	3	3	3	2	2	3	3	3
CO 5	2	2	3	3	3	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023–2024)

INTRODUCTION TO COMPUTER SKILLS

CODE: 23CS/US/IC44

CREDITS: 4

L T P: 2 0 2

TOTAL TEACHING HOURS: 52

OBJECTIVES OF THE COURSE

- To introduce word processing.
- To provide the students understanding of spreadsheets.
- To equip the students with skills and knowledge necessary to create a presentation.

COURSE LEARNING OUTCOMES (COs)

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall the tools and techniques in word, spreadsheet and presentation	K1
CO2	explain the options available in word processing, spreadsheet and presentation	K2
CO3	apply the techniques in creating a document, spreadsheet and presentation	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Word Processing 1.1 Text Editing, Text tools, Character and paragraph formatting, Tabs and lists, Using Tables, Mail Merge 1.2 Working with objects – Word Art, Clip Art, Pictures, Built-in and custom styles, Table of contents, Templates, Securing documents. Tool: MS-Word	K1-K3	10	1-3
2	Spreadsheet 2.1 Data entry, Using formulae and functions, Formatting data, Creating charts, Lists, Sorting, Filtering 2.2 Working with forms, Grouping, Linking and Protecting sheets, Data Validation, Printing spreadsheets. Tool: MS-Excel	K1-K3	8	1-3
3	Presentation 3.1 Creating slides, Using bullets, Formatting slides, Including word art, Slide templates, Drawing tools, Selecting and grouping objects, Viewing slides and handouts, Transitions, Spell check, Master Slide, Rehearse timings, Adding sound. Tool: MS-PowerPoint	K1-K3	8	1-3

UNIT	CONTENT	CL	HRS	CO
4	Word Processing and Spreadsheet – Practicals 4.1 Create an Application with different formatting styles.. 4.2 Create Tables, using different formatting styles. 4.3 Create word documents implementing Clip art, Word art and Auto shapes. 4.4 Create Spreadsheets with various formatting styles. 4.5 Create Spreadsheet to include formula and implement the same using different graphs and charts. 4.6 Create a spreadsheet that incorporates data validation.	K1-K3	16	1-3
5	Presentation 5.1 Create a presentation that displays a clear, logical sequence. 5.2 Create a presentation that incorporates animations. 5.3 Create bulleted slides and slides that incorporate word art. 5.4 Create a presentation that incorporates drawing tools	K1-K3	10	1-3

BOOKS FOR REFERENCE

Curtis Frye D. Microsoft Excel 2010 Step by Step. Microsoft Press, 2010.
 Faithe Wempen. Microsoft PowerPoint 2010 Bible. John Wiley & Sons, 2010.
 Herb Tyson. Microsoft Word 2010 Bible. John Wiley & Sons, 2010.

PATTERN OF EVALUATION

Continuous Assessment: (Totally internal)
 All K-levels are evaluated

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

NOVEL MATERIALS FOR SUSTAINABILITY

CODE:23VS/VM/NM56

CREDITS:6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To understand the concept of sustainability through revolutionary materials
- To apply energy production alternatives for sustainability
- To gain knowledge on the role of various materials to attain sustainable development
- To assess the properties and recent advances of thermo-electrical material
- To understand the Energy Efficiency materials and Conservation of energy

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall Nanoscience, catalysis, thermoelectric, smart material and insulation material	K1
CO2	explain the novel materials, supercapacitor, properties of thermoelectric materials , energy saving materials and polyurethane uses	K2
CO3	identify the application of nanomaterials, basics of polymers types, LED , thermal doors	K3
CO4	examine the various properties of nanomaterials, TiO ₂ as a catalyst, heating cooling thermoelectric applications, materials for industry waste, energy efficient materials	K4
CO5	discuss the luminous intensity, thermal conductivity of the material, advancement in thermo electricals, energy efficiency for different lighting systems, water splitting analysis and energy conservation in building	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Fundamentals of Nanoscience 1.1 Nanomaterials and Nanoscience: terminology- scales of nanosystems- nanoparticles: Introduction-Atoms to molecules- Quantumdots 1.2 Novel Materials : Metals and metal oxides - Carbon Nanotubes, Dendrimers, Fullerenes and composites 1.3 Applications of Nanomaterials	K1-K4	7	1-3
2	Functional Materials for Sustainable Energy Applications 2.1 Materials for water splitting-catalysis and photocatalysis - Use of Titanium dioxide as catalyst - Supercapacitors 2.2 Classification of polymers: Natural, Semi-synthetic, Synthetic (Basics)-Polypropylene (Basics)-Use of polymers	K1-K6	8	1-5
3	Thermoelectric materials 3.1 Properties of thermoelectric materials- Thermoelectric materials for heating and cooling applications 3.2 Recent advances in the field of thermo electricals	K1-K6	8	1-4
4	Smart Materials for Sustainability 4.1 Definition and Characteristics of smart materials 4.2 Energy saving materials - Energy efficient LED materials for lightings 4.3 Materials for industry and textile waste water treatment (To treat the heavy metals like arsenic, lead and cadmium)	K1-K6	8	1-5
5	Materials for Energy Efficient Buildings 5.1 Insulation materials: Importance of insulation- Functional uses of polyurethane- Plant based polyurethane foams from bamboo, hemp, kelp and straw bales - Thermal Doors-Cool roofings 5.2. Energy Efficiency materials and Conservation: Energy conserving windows-Low e-windows- Earth wall -Xeriscaping	K1-K6	8	1-5

Practical components [39 hours]

1. Calculating the luminous efficacy of different bulbs
2. Calculating the room indices of different rooms
3. Converting temperature difference into electricity using Peltier effect
4. Converting heat into electricity using Seebeck effect
5. Construction of models of energy efficient landscapes and buildings using energy efficient materials
6. Assessment of the usage of various agricultural by-products for waste treatment
7. Simple Water catalysis experiment
8. Measuring the IV characterization of DSSC
9. Measuring the IV characterization of LED

BOOKS FOR STUDY

- Purohit, S.S., Green technology – An approach for Sustainable environment, Jodhpur, Agrobios Publications, 2016.
- Kakani, S.L. Heat, Thermodynamics and Statistical Mechanics. New Delhi: Sultan Chand, 1989.
- Bhatia, V.S. Thermodynamics and Kinetic Theory, New Delhi: Shobanlal Nagin Chand 1993.
- Bradley, A.S., Adebayo, A. O. Maria, P., Engineering applications in sustainable design and development, Canada, Cengage Learning, 2014.

BOOKS FOR REFERENCES

- Ni Bin Chang, Systems Analysis for sustainable Engineering: Theory and Applications, USA, McGraw-Hill Professional, 2011
- Twidell, J.W. and Weir, A.D., Renewable Energy Resources, UK, Wiley, 2015
- Allen D.T. and Shonnard, D.R. Sustainability Engineering: Concepts, Design and case Studies, USA, Prentice Hall, 2012

WEB RESOURCES

- <https://www.sciencedirect.com/book/9780323918947/novel-materials-for-environmental-remediation-applications>
- <https://www.sciencedirect.com/>
- <https://scholar.google.com/>

PATTERN OF ASSESSMENT:

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY – 25 Marks

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1×3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1×3=3 (1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:
THEORY

Total Marks: 100
Marks: 50

Duration: 5 hours
Duration: 2 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

PRACTICAL

Marks: 50

Duration: 3 hours

Criterion	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code:23VS/VM/NM56												
	Course Title: NOVEL MATERIALS FOR SUSTAINABILITY												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	2	3	3	2	3	3	2	3	2	3
CO 2	2	3	3	2	3	3	3	3	2	2	3	3	3
CO 3	2	2	3	2	3	3	3	3	2	2	3	2	3
CO 4	2	3	3	2	3	3	3	3	2	2	3	3	3
CO 5	2	3	3	2	3	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

SOFTWARE TOOLS AND GREEN CLOUD COMPUTING

CODE: 23VS/VM/SG56

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To learn assessing the performance of energy systems through software.
- To get familiarity with software tools available through demo sessions.
- To know the information about energy simulation tool like PVSYST, RET and eQUEST
- To increase the products energy efficiency using green cloud computing
- To set up information technology with a minimal carbon footprint

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	learn various software used for renewable energy and basics of PVSYST technology, RET, eQUEST, Cloud computing	K1
CO2	design a renewable energy source through PVSYST, RET ,eQUEST(Wizards) software and Environmental impacts of Green cloud computing	K2
CO3	analyze the energy performance via PVSYST, RET, eQUEST(requirements and features) and Motivation for Green cloud computing.	K3
CO4	acquire knowledge to monitor PVSYST, RET, eQUEST and Environmental standards and policy frameworks of Green cloud computing	K4
CO5	simulate the programmes for PVSYST, RET and eQUEST	K5, K6
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Simulation and data analysis of the PV systems 1.1 Effective softwares for various renewable energy - Demonstration of the software to study the sizing, simulation and data analysis of the PV systems-PVSYST 1.2 Preliminary design, Project Design and economic evaluation of the PV systems. Analysis of Stand-alone systems.	K1-K6	26 (T+P)	1-5
2	Assessment and Optimisation of actual energy performance 2.1 Identification assessment and optimisation of the technical viability of potential clean energy projects-RETScreen. 2.2 Measurement and verification of actual energy performance 2.3 Evaluation of additional energy savings/production opportunities.	K1-K6	10	1-5
3	Quick Energy Simulation Tool 3.1 Evaluation of Building Technologies-eQUEST 3.2 Analysis of Building Design 3.3 Study of Energy Efficiency Measures	K1-K6	26 (T+P)	1-5
4	Introduction to Green Cloud Computing 4.1 Understanding Cloud Computing and its Environmental Impact 4.2 Motivation for Green Cloud Computing- Environmental Challenges and Concerns of Traditional Cloud Computing 4.3 Key Concepts: Energy Efficiency, Carbon Footprint, Resource Optimization	K1-K4	8	1-4
5	Cloud Governance and Sustainability 5.1 Environmental Standards and Certifications for Cloud Providers- Green Metrics and Key Performance Indicators (KPIs) 5.2 Cloud Provider Selection Criteria from a Green Perspective 5.3 Policy Frameworks for Green Cloud Adoption and Management	K1-K4	8	1-4

BOOKS FOR STUDY

Verma J K, Green cloud computing, LAP Lambert Academic Publishing (8 January 2016)
 Jyoti Prakash Srivastava , Step by step guide to solar simulation software PVsyst: Practical approach, 2021

WEB RESOURCES

<http://www.trnsys.com/>

<http://www.retscreen.net/ang/home.php>

<http://www.pvsyst.com/en/software>

https://doe2.com/Download/equest/eQ-v3-64_Introductory-Tutorial.pdf

PATTERN OF ASSESSMENT:

Continuous Assessment:

Marks: 50

Duration: 3 hours

THEORY – 25 Marks

Section	Knowledge Level	Marks	Pattern
A	K1	5	$5 \times 1 = 5$ (All questions to be answered)
B	K2/K2	3	$1 \times 3 = 3$ (1 out of 2 questions internal choice)
	K3/K3	3	$1 \times 3 = 3$ (1 out of 2 questions internal choice)
C	K4/ K4	4	$1 \times 4 = 4$ (1 out of 2 questions internal choice)
D	K5/K5	5	$1 \times 5 = 5$ (1 out of 2 questions internal choice)
	K6/K6	5	$1 \times 5 = 5$ (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:
THEORY

Total Marks: 100
Marks: 50

Duration: 5 hours
Duration: 2 hours

Section	Knowledge Level	Marks	Pattern
A	K1	10	$5 \times 2 = 10$ (All questions to be answered)
B	K2/K2	6	$2 \times 3 = 6$ (2 out of 4 questions internal choice)
	K3/K3	6	$2 \times 3 = 6$ (2 out of 4 questions internal choice)
C	K4/ K4	8	$2 \times 4 = 8$ (2 out of 4 questions internal choice)
D	K5/K5	10	$2 \times 5 = 10$ (2 out of 4 questions)
	K6/K6	10	$2 \times 5 = 10$ (2 out of 4 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

Criterion	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/SG56												
	Course Title: SOFTWARE TOOLS AND GREEN CLOUD COMPUTING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	3	3	2	3	2	3	3	3
CO 2	2	3	3	3	3	3	3	2	2	2	3	3	3
CO 3	2	3	3	2	3	3	3	2	2	2	3	3	3
CO 4	2	3	3	2	3	3	3	2	2	3	3	3	2
CO 5	2	3	3	2	3	3	3	2	2	2	3	3	2

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

SOLAR POWER PLANT DESIGNING

CODE: 23VS/VM/PD56

CREDITS: 6

L T P: 3 0 3

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To be able to assess the solar power plant needs
- To gain knowledge on safety measures for working in a Solar power plant
- To gain hands on experience on designing of solar power plants
- To prove safety procedures in installation solar power plant
- To fabricate protective equipment with proper mounting of solar photovoltaics structures

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	recall solar module mounting, design of combiner boxes, safe work procedure and earthing pits of solar PV power plants.	K1
CO2	demonstrate site survey, selection of other component, design of switch gear, personal protective equipment and lightning arrestor foundation for solar power plant energy designing.	K2
CO3	construct power transmission system, design of solar modules, batteries and inverters, safety hazards and grid transmission of solar power plant utility.	K3
CO4	inspect balance of systems, energy simulation report for the design of combiner boxes and switch gear, use of required tools and equipment and solar water pumping system for effective solar power plant.	K4
CO5	accessing the energy simulation report for the design of batteries and inverters and mounting structure of rooftop of solar power plant for various purposes.	K5, K6
CL – Cognitive Level		
K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Structural design of solar PV power plant 1.1 Study of site survey and soil test reports. 1.2 Design and documentation: Plant Infrastructure - overall plant layout - solar module mounting and other components - switchyard and power transmission system. 1.3 Design the capacity of a solar power plant - commissioning and maintenance of solar power plants. 1.4 Design and selection of solar modules.	K1-K3	8	1-3
2	Design of ON - grid connected solar PV system 2.1 Selection of other components: Inverters, Strings, Combiner boxes, switchgear, batteries and Inverters. 2.2 Design of solar modules, combiner boxes, inverter, Balance of Systems.	K1-K4	8	1-5
3	Energy simulation of Rooftop off grid solar PV power plant 3.1 Design of combiner boxes, switchgear, batteries and Inverters. 3.2 Energy simulation report for the design of combiner boxes, switchgear. 3.3 Energy simulation report for the design of batteries and Inverters.	K1-K6	8	1-4
4	Personal health & safety at solar PV project site (Theory & Practical) 4.1 Establish and Follow safe work procedure - Use and maintain personal protective equipment. 4.2 Identify and mitigate safety hazards - Demonstrate safe and proper use of required tools and equipment. 4.3 Identify work safety procedures and instructions for working at height.	K1-K6	8	1-5
5	Design of foundation for other components (Theory & Practical) 5.1 Design plan for Earthing pits, lightning arrestor foundation- grid and grid transmission. 5.2 Design of switch yard. 5.3 Solar water pumping system-Design of mounting structures for Rooftop. 5.4 ACDB/DCDB Design –Cable calculation-losses and square meter	K1-K6	7	1-5

1. Site visit 10kW to 100kW
2. Hands on Designing
3. Fabrication of Structure-visit

Practical components [39 hours]

1. Troubleshooting fuse and circuit breaker
2. Maximum power point tracking of a solar pane.
3. Determination of angle and intensity of light
4. Analyzing solar cooker model
5. Efficiency of a solar cooker
6. Efficiency of solar water distillation unit
7. Performance evaluation of solar PV power plant
8. Calculating the power by light intensity
9. Power of the solar cooker

BOOKS FOR STUDY

Solanki C.S., *Solar Photovoltaic Technology and Systems: A Manual for Technicians, Trainers and Engineers*, Delhi, PHI Learning Private Limited, 2013

Solanki C.S., *Solar Photovoltaics- Fundamentals, Technologies and Applications*, Delhi, PHI Learning Private Limited, 2015

Kapur A.S., *Practical Guide for Total Engineering of MW capacity Solar PV Power Project*, Chandigarh, White Falcon Publishing, 2016

BOOKS FOR REFERENCE

Michael Boxwell, *The Solar Electricity Handbook: A Simple, Practical Guide to Solar Energy: How to Design and Install Photovoltaic Solar Electric Systems*, UK, Green Stream Publishing Limited, 2016

G. N. Tiwari, Arvind Tiwari, Shyam, *Handbook of solar energy, theory, analysis and applications*, Springer publication 2016

Garg H P. Prakash J. *Solar Energy: Fundamentals & Applications*, Tata McGraw Hill, 2000

WEB RESOURCES

<https://byjus.com/physics/ac-generator/>
<https://www.cleanmax.com/solar-update/knowsafety-no-injury.php>

<https://www.solarpowerworldonline.com/2015/06/what-is-a-combiner-box/>

<https://www.energy.gov/eere/solar/how-does-solar-work>

BOOKS FOR REFERENCE (Practical)

C. S. Ramya *Photovoltaics laboratory techniques and procedures- A manual to test solar cells and panels*, Blueros Publishers first edition 2022.

G. N. Tiwari, Arvind Tiwari, Shyam, *Handbook of solar energy, theory, analysis and applications*, Springer publication 2016

PATTERN OF ASSESSMENT:**Continuous Assessment:****Marks: 50****Duration: 3 hours****THEORY – 25 Marks**

Section	Knowledge Level	Marks	Pattern
A	K1	5	5×1=5 (All questions to be answered)
B	K2/K2	3	1x 3=3 (1 out of 2 questions internal choice)
	K3/K3	3	1x 3=3(1 out of 2 questions internal choice)
C	K4/ K4	4	1×4=4 (1 out of 2 questions internal choice)
D	K5/K5	5	1×5=5 (1 out of 2 questions internal choice)
	K6/K6	5	1×5=5 (1 out of 2 questions internal choice)

PRACTICAL – 25 Marks

Criterion	Knowledge Level	Marks
Aim and Formula	K1	2
	K2	3
Theory and Procedure	K3	5
Observation	K4	5
Calculation and Result	K5	5
	K6	5

Other Components: All K1 to K6 levels should be assessed**Total Marks: 50**

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

End-Semester Examination:**Total Marks: 100****Duration: 5 hours****THEORY****Marks: 50****Duration: 2 hours**

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (All questions to be answered)
B	K2/K2	6	2x 3=6 (2 out of 4 questions internal choice)
	K3/K3	6	2x 3=6 (2 out of 4 questions internal choice)
C	K4/ K4	8	2×4=8 (2 out of 4 questions internal choice)
D	K5/K5	10	2×5=10 (2 out of 4 questions)
	K6/K6	10	2×5=10 (2 out of 4 questions)

PRACTICAL**Marks: 50****Duration: 3 hours**

Criterion	Knowledge Level	Marks
Aim and Formula	K1	4
	K2	6
Theory and Procedure	K3	10
Observation	K4	10
Calculation and Result	K5	10
	K6	10

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/PD56												
	Course Title: SOLAR POWER PLANT DESIGNING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	3	3	3	2	2	3	3
CO 2	2	3	3	2	3	3	3	3	2	2	3	3	3
CO 3	2	3	3	2	3	3	3	3	2	2	3	3	3
CO 4	2	3	3	2	3	3	3	3	2	2	3	3	3
CO 5	2	3	3	2	3	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

GREEN BUILDING

CODE:23VS/VM/GB56

CREDITS:6

L T P: 5 0 1

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To increase the use of solar energy in buildings.
- To reduce the non-renewable energy demand and green house gas emissions
- To gain knowledge on green building techniques and integrated designs.
- To understand the overall impact on the orientation and construction.
- To study the eco-friendly and regionally available construction material.

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	remember and learn the concept of energy efficient buildings, passive solar heating, solar cooling, integrated passive design and green buildings.	K1
CO2	understand the calculation of heating and cooling loads, heat transmission in building, cooling requirements, passive solar lab and green building features.	K2
CO3	identify the ability of internal heat sources, bioclimatic classification, absorption refrigeration, solar control and green materials.	K3
CO4	distinguish the passive heating concepts, heat pumps, passive solar buildings and indoor environment quality of green buildings.	K4
CO5	appraise the direct and indirect heat gain, importance of solar control and green building rating system.	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate K6 –Create		

UNIT	CONTENT	CL	Hrs	CO
1	Energy Transfer in Buildings 1.1 Concepts of energy efficient buildings. Calculation of heating and cooling loads of the building. Building's energy balance accounting for solar energy gain – ActiveArchitecture 1.2 Internal heat sources-Low energy and zero energy buildings	K1-K3	16	1-3
2	Passive Solar Heating Systems 2.1 Thermal comfort - Heat transmission in buildings - Bioclimatic classification 2.2 Passive heating concepts - Direct heat gain - Solar Windows - indirect heat gain- Masonry and Water Thermal StorageWall	K1-K4	16	1-5
3	Solar Cooling of Buildings 3.1 Cooling Requirements - Cooling Load Calculations 3.2 Absorption Refrigeration - Heat Pumps	K1-K4	14	1-4
4	Integrated design 4.1 Passive solar design lab – designing, building and monitoring passive solar building 4.2 Orientation for solar control- The importance of solar control for cooling, comfort and daylighting	K1-K5	16	1-5
5	Green Buildings 5.1 Green building features - Green materials – Window coating– Roof top coating – Protective coatings - integrated ecological design - indoor environment quality. 5.2 The National green building rating system GRIHA -IGBC rating systems	K1-K5	16	1-5

BOOKS FOR STUDY

Attmann O. *“Green Architecture”*, USA, McGraw-Hill, 2010
 Boecker J. *“Integrative Design Guide to Green Building”*, UK, Wiley, 2009
 Garg H P. Prakash J., *Solar Energy: Fundamentals & Applications*, New Delhi, Tata McGraw Hill, 2000

BOOKS FOR REFERENCE

Gevorkian P. *“Alternative Energy Systems in Building Design”*, USA, McGraw-Hill, 2010
 Krieder. J and Rabi, A. *Heating and Cooling of Buildings: Design for Efficiency*, USA, McGraw-Hill, 1994

WEB RESOURCES

<https://calrecycle.ca.gov/greenbuilding/materials/>
<https://www.re-thinkingthefuture.com/sustainable-architecture/a2319-green-rating-systems-in-india/#:~:text=GRIHA%20assesses%20projects%20on%20their,of%20commissioning%20of%20the%20building.>

PATTERN OF ASSESSMENT

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions)
	K3/K3	10	2×5 = 10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks:50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions)
	K3/K3	20	4×5 = 20 (4 out of 6 questions)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions)
D	K5/K5	20	2×10= 20 (2 out of 4 questions)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/GB56												
	Course Title: GREEN BUILDING												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	3	3	3	2	2	3	3
CO 2	2	3	3	2	3	3	3	3	2	2	3	3	3
CO 3	2	3	3	2	3	3	3	3	2	2	3	3	3
CO 4	2	3	3	2	3	3	3	3	2	2	3	3	3
CO 5	2	3	3	2	3	3	3	3	2	2	3	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI - 600 086

**Soft Skills offered by the Department of Psychology to students of
B.Voc Degree Programme**

SYLLABUS

(Effective from the academic year 2023-2024)

HUMAN BEHAVIOUR

CODE: 23PY/US/HB52

CREDITS: 2

LTP: 2 0 0

TOTAL TEACHING HOURS: 26

OBJECTIVES OF THE COURSE:

- To help students understand basic principles of psychology
- To create self-awareness and understanding of various aspects of human behaviour
- To acquaint the learner with the complexities of individual differences

COURSE LEARNING OUTCOMES:

On successful completion of the course, the student will be able to:

COs	DESCRIPTION	CL
CO1	identify and recall important notions in psychology	K1
CO2	elaborate on the understanding of human behavior from a scientific perspective	K2
CO3	apply psychological principles to understanding self and others	K3
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply		

UNIT	CONTENT	CL	HRS	CO
1	Introduction 1.1 Definition of psychology and ABCs of human behaviour 1.2 Factors affecting human behaviour 1.3 Methods of studying human behaviour- introspection, observation, interview, case study, questionnaire, experimental method 1.4 Psychological professions and areas of specializations	K1- K3	10	1-3
2	Self 2.1 Definition and understanding the self: William James 2.2 Self-awareness, self-introspection 2.3 Enhancing the self or self-regulation	K1- K3	8	1-3
3	Individual differences in human behaviour 3.1 Biological factors: temperaments 3.2 Psychological factors: personality (big 5 model), intelligence 3.3 Socio-cultural factors: individualist vs collectivist cultures	K1- K3	8	1-3

BOOKS FOR STUDY

Baron, A. Robert. *Psychology*. New Delhi, Prentice Hall, 2007.

Baron, A. *Social Psychology*. Delhi, India, Pearson Education India, 2009.

Bowdon-Tom Butler. *50 Psychology Classics*. London, Nicholas Brealey, 2008.

WEB RESOURCES

<https://shorturl.at/uAQU5>

PATTERN OF ASSESSMENT

Continuous Assessment:

Total Marks: 25

Duration: 60 minutes

Section	Cognitive Level	Mark Allocation	No. of Questions	No. of Words
A	K1	5 marks (1 x 5 marks)	2 (Answer any 1)	200 words
B	K2	10 marks (2 x 5 marks)	4 (Answer any 2)	200 words
C	K3	10 marks (1 x 10 marks)	2 (Answer any 1)	500 words

2 to 3 ‘Other Components’ will be assessed for 25 marks, with the same range and weightage of K Levels prescribed for the course.

No End Semester Exam

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENTREPRENEURIAL INITIATIVES FOR SUSTAINABLE DEVELOPMENT

CODE:23VS/VM/EI66

CREDITS:6

L T P: 4 0 2

TOTAL TEACHING HOURS: 78

OBJECTIVES OF THE COURSE

- To instill the spirit of entrepreneurship among youth and develop entrepreneurial initiatives
- To enhance self-employment opportunities in energy industries.
- To gain awareness of innovation and give different dimensions to energy products
- To train in the preparation of business project proposals.
- To raise awareness on women entrepreneurship

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	understand the need for entrepreneurship, entrepreneurial motivation, women entrepreneurship, identification of products and Indian entrepreneurs	K1
CO2	enhance the ability on the importance of entrepreneurship, decision and formulation, women empowerment, market demand and Indian entrepreneurs in renewable energy	K2
CO3	explore the various characteristics of entrepreneurship, entrepreneurial venture, selection of products and business planning and women entrepreneurs in renewable energy	K3
CO4	develop knowledge on barriers to entrepreneurship, factors governing women entrepreneurs, financial and business collaboration and entrepreneurs in renewable energy sectors	K4
CO5	discover the steps to overcome barrier, schemes for women entrepreneurs, business idea generation and Case study on Indian women entrepreneurs	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Entrepreneurship 1.1 Need for Entrepreneurship Enterprise-Entrepreneurship and Entrepreneur: Definition and Concept 1.2 Qualities, Types and Functions of Entrepreneurs. 1.3 Studies on Indian Entrepreneurship Model.	K1-K3	13	1-3
2	Entrepreneurial Motivation and Business Ideas 2.1 Stories of Successful Entrepreneurs. 2.2 Idea Generation and Screening - Sources, evaluation and selection of business ideas 2.3 Business Plan – Meaning, Contents of Business Plan process. 2.4 Entry Barriers and Steps to overcome the barriers.	K1-K5	13	1-3
3	Project Identification 3.1 Meaning and Types of Projects, Project Life cycle. 3.2 Meaning, Elements and stages of Project formulation 3.3 Project feasibility analysis and preparation of Business project proposal.	K1-K5	17	1-5
4	Women Entrepreneurship 4.1 Role and Challenges of Women Entrepreneur 4.2 Special Privileges and problems faced by Women Entrepreneur	K1-K5	22	1-5
5	Financial Planning and Case Studies 5.1 Financial Planning and sources of finance for enterprise. 5.2 Government policies and Ministry of Micro, Small & Medium Enterprises 5.3 Industrial Visit	K1-K5	13	1-5

BOOKS FOR STUDY

S. S Khanka, Entrepreneurial Development view, S. Chand and Co, New Delhi, 2005
 Desai , V. Dynamics of Entrepreneurship Development and Management , New Delhi, Himalaya publishers , 2015

BOOKS FOR REFERENCE

Jayashree, Suresh, Entrepreneurial Development, Margham Publications, New Delhi, 2015
 G. B. Gupta and N.P.Sreenivasan, Entrepreneurial Development, Sultan Chand and sons, 2016
 Gopalakrishnan , P. Text Book of Project Management, New Delhi, Macmillan, 2014

WEB RESOURCE

<https://www.igi-global.com/dictionary/entrepreneurial-initiative/67269>

PATTERN OF ASSESSMENT

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions)
	K3/K3	10	2×5 = 10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks:50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions)
	K3/K3	20	4×5 = 20 (4 out of 6 questions)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions)
D	K5/K5	20	2×10= 20 (2 out of 4 questions)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/EI66												
	Course Title: ENTREPRENEURIAL INITIATIVES FOR SUSTAINABLE DEVELOPMENT												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	3	3	3	1	2	2	3
CO 2	2	3	3	3	3	2	3	3	3	1	2	3	3
CO 3	2	3	3	3	3	2	3	3	3	1	2	3	3
CO 4	2	3	3	3	3	2	3	3	3	1	2	3	3
CO 5	2	3	3	3	3	2	3	3	3	1	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

GREEN MANAGEMENT-URBAN AND RURAL SCENARIO

CODE: 23VS/VM/GM66

CREDITS: 6

L T P: 5 0 1

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To appreciate the concept of green infrastructure
- To understand the needs of the urban and rural scenario for sustainable development
- To gain knowledge on the eco designing and role of green marketing
- To recommend green space in urban planning for healthy living
- To assemble rural area developments plans for resilient building

COURSE LEARNING OUTCOMES

On successful completion of the course, students will be able to

COs	DESCRIPTION	CL
CO1	define social benefits, micro climate, green marketing, urban planning, inland waters for the emerging green marketing	K1
CO2	describe green infrastructure, heat island effect, role of green finance, urban open spaces and managing rural area in order to maintain green environment	K2
CO3	apply infiltration system, local micro climate, green supply chain management, urban forest and participatory watershed development for sustainable environment	K3
CO4	discover eco designing and labelling, green space in cities for promoting healthy living and adopting to climate change	K4
CO5	access environment strategy, competitive advantage and climate resilient building	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Green infrastructure for Sustainable Development 1.1 Introduction-Background-The problem- Solution- Social benefits- 1.2 Types of green infrastructure-Infiltration system-green roofs-rainwater harvesting-downspout disconnection-Tree plantation 1.3 Microeconomic aspects of green infrastructure	K1-K3	15	1-3
2	Microclimate Regulation 2.1 Microclimate- Introduction-Heat Island- Heat Island effect- Definition- Impacts 2.2 Cooling strategies-The role of communities and public – Effects of trees on local outdoor microclimate 2.3 The properties and potential of different tree species on microclimate regulation	K1-K3	15	1-5
3	Green Marketing 3.1 Emergence of new Environmental market, Green marketing, Role of Green finance and climate finance 3.2 Environmental strategy and Competitive advantage, Green supply chain Management 3.3 Eco Designing, Eco - labelling	K1-K5	15	1-5
4	Urban Scenario 4.1 Urban planning for sustainable development 4.2 Importance of green space in cities for promoting healthy living and wellbeing. 4.3 Types of urban open spaces-Urban Forest-Drawbacks of Urban green spaces.	K1-K4	18	1-4
5	Rural scenario 5.1 Managing rural area-arable land-Forests-Inland waters 5.2 Participatory watershed development in India-Adapting to climate change 5.3 Climate resilient buildings	K1-K5	15	1-5

BOOKS FOR STUDY

Jacquelyn A. Ottman, *The new rules of green marketing: Strategies, Tools and Inspiration for sustainable branding*, USA, Berrett-Koehler Publishers, 2011

Suresh K K, *Green Marketing*, The ICFAI University Press, 2006.

Dr. Bharat Bhatip. R.K. Shukla, *Green Marketing Problems & Prospects*, Book River Press, 2021

Ed McMahon and Mark A. Benedict, *Green Infrastructure: Linking Landscapes and Communities*, USA, The Island Press, 2006

BOOKS FOR REFERENCE

Lisa Gartland, *Heat Islands: Understanding and Mitigating Heat in Urban Areas*, UK, EarthScan, 2010

Dustin Mulvaney, *Green Technology*, Sage Publications India Pvt. Ltd. - New Delhi, New Delhi, 2011

Ed McMahon and Mark A. Benedict, *Green Infrastructure: Linking Landscapes and Communities*, USA, The Island Press, 2006

Soli J. Arceivala, *Green Technologies For A Better Future*, McGraw Hill Education (India) Private Limited, 2019.

D. Salvador Rueda Palenzuela, *The Green Book on Urban and Local Sustainability in the Information Age*, UK, 2012.

WEB RESOURCES

<https://www.thezebra.com/resources/home/what-is-a-sustainable-city/>

<https://www.epa.gov/green-infrastructure/what-green-infrastructure>

<https://www.zameen.com/blog/open-spaces-cities.html>

<https://www.unep.org/news-and-stories/story/5-ways-make-buildings-climate-change-resilient>

PATTERN OF ASSESSMENT

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions)
	K3/K3	10	2×5 = 10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks: 50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3 hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions)
	K3/K3	20	4×5 = 20 (4 out of 6 questions)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions)
D	K5/K5	20	2×10 = 20 (2 out of 4 questions)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/GM66												
	Course Title: GREEN MANAGEMENT – URBAN AND RURAL SCENARIO												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	3	3	3	2	2	3	3
CO 2	2	3	3	3	3	2	3	3	2	3	2	3	3
CO 3	2	3	3	3	3	2	3	3	2	3	2	3	3
CO 4	2	3	3	2	3	3	3	3	2	3	2	3	3
CO 5	2	3	3	2	3	3	3	3	2	3	2	3	3

High Correlation: 3

Moderate Correlation: 2

Low Correlation: 1

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

ENERGY FOR SMART CITIES

CODE:23VS/VM/SC66

CREDITS:6

L T P: 5 0 1

TOTAL TEACHING HOURS:78

OBJECTIVES OF THE COURSE

- To understand the need for a smart city
- To know the sustainable design of the Smart Cities
- To apply the green energy technologies for the design of a smart city.
- To promote cities that provide clean and sustainable environment
- To give a decent quality of life to their citizens through the application of smart solutions

COURSE LEARNING OUTCOMES

COs	DESCRIPTION	CL
CO1	define energy demand, Green approach, city planning, smart city, global standard, Flaws in smart city	K1
CO2	summarize energy in conventional city, smart approaches, elements of smart city, 100 smart cities policy and normal accidents in technical systems	K2
CO3	apply several ways to alternative sources, Energy strategy 2040, urban energy system, Global experience, Policy and drive green in smart city	K3
CO4	inspect basic solar options, conventional vs smart city, Governance of smart cities and vulnerability of networks	K4
CO5	improve the technologies for a smart city, smart city in populated area and safety measures in smart city	K5
CL – Cognitive Level K1 – Remember K2 – Understand K3 – Apply K4 – Analyse K5 – Evaluate		

UNIT	CONTENT	CL	Hrs	CO
1	Introduction to Energy demands, Challenges and Options 1.1 Energy demand, Energy scenarios of conventional cities 1.2 Alternative resources-Green approach to meet Energy demand 1.3 Energy Strategy 2040	K1-K3	15	1-3
2	Introduction to City Planning and Energy Components 2.1 City Planning-Concepts-Smart approaches to city planning, Patrick Geddes planning concept- Overview of an urban energy system 2.2 Solar options - Energizing city planning through direct and indirect solar resources, PV and thermal; Singular or hybrid	K1-K4	10	1-5
3	Understanding Smart Cities 3.1 Definition of Smart City- Essential Elements of Smart city- Global Experience of Smart Cities 3.2 Conventional vs. Smart City Introduction to Technologies for a Smart city: Smart energy 3.3 Smart transportation, Smart community infrastructure, Smart mobility, Smart IoT devices	K1-K5	10	1-4
4	Smart Cities Planning and Development 4.1 Smart Cities – Global standards and performance Benchmarks- -100 Smart Cities Policy and Mission 4.2 Governance of Smart Cities (Specific applications)- Successful Smart City Planning in Densely Populated Areas	K1-K5	30	1-5
5	The Downside of Intelligent Cities present and in Future 5.1 Flaws in smart city infrastructure - normal accidents in complex technical systems— vulnerability of cellular networks during urban crises 5.2 Drive green in Smart city, EV, HEV-Hybrid Self Charging Vehicles 5.3 Safeguarding measures for smart city planners	K1-K5	18	1-5

BOOKS FOR STUDY

Wood row Clark Iland Grant

Cooke, *Smart Green Cities: Toward a Carbon Neutral World*, New York, Routledge, 2016

Mani N, *Smart Cities and Urban Development in India*, New Century Publications - New Delhi, 2016

Ercoskun and Ozge Yalciner, *Green and Ecological Technologies for Urban Planning: Creating Smart Cities: Creating Smart Cities*, USA, IGI Global, 2011

BOOKS FOR REFERENCE

Rocco Papa, Romano Fistola, *Smart Energy in the Smart City: Urban Planning for a Sustainable Future (Green Energy and Technology)*, Springer, 2016
Anish Jindal, Neeraj Kumar, Gagangeet Singh Aujla, *Internet of Energy for Smart Cities: Machine Learning Models and Techniques*, CRC press, 2021
Benedetto Nastasi, Andrea Mauri, *Energy Consumption in a Smart City*, Mdpi AG publisher, 2022
Fadi Al-Turjman, *Intelligence In Lot-Enabled Smart Cities*, CRC - Press - New York, 2019 (

WEB RESOURCES

Joshi Sujata and SaxenaSakshamb, *Developing Smart Cities: An IntegratedFramework* , 6th International Conference on Advances on Computing &Communications,(<https://doi.org/10.1016/j.procs.2016.07.258>)-OnlineSource
<https://blogs.worldbank.org/developmenttalk/the-global-energy-challenge>
<https://www.drishtiiias.com/to-the-points/paper3/energy-security>

PATTERN OF ASSESSMENT

Continuous Assessment

Total Marks: 50

Duration: 90 minutes

Section	Knowledge Level	Marks	Pattern
A	K1	10	5×2=10 (Answer all questions)
B	K2/K2	10	2×5 = 10 (2 out of 4 questions)
	K3/K3	10	2×5 = 10 (2 out of 4 questions)
C	K4/K4	10	1×10 = 10 (1 out of 2 questions)
D	K5/K5	10	1×10 = 10 (1 out of 2 questions)

Other Components: All K1 to K6 levels should be assessed

Total Marks:50

Seminars / Quiz / Problem Solving / Assignment / Exhibition / Case Study / Mini Project

END SEMESTER EXAMINATION

End-Semester Examination:

Total Marks: 100

Duration: 3hours

Section	Knowledge Level	Marks	Pattern
A	K1	20	10×2=20 (Answer all questions)
B	K2/K2	20	4×5 = 20 (4 out of 6 questions)
	K3/K3	20	4×5 = 20 (4 out of 6 questions)
C	K4/K4	20	2×10 = 20 (2 out of 4 questions)
D	K5/K5	20	2×10= 20 (2 out of 4 questions)

**Mapping of Course Outcomes (COs)
to Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)**

Semester	Subject Code: 23VS/VM/SC66												
	Course Title: ENERGY FOR SMART CITIES												
Course Outcomes (COs)	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	3	2	3	3	3	2	3	3	3	2	2	3	3
CO 2	2	3	3	2	3	2	3	3	3	2	2	3	3
CO 3	3	3	3	2	3	2	3	3	3	2	2	3	3
CO 4	3	3	3	2	3	2	3	3	3	2	2	3	3
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High Correlation: 3

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**BACHELOR OF VOCATIONAL (B.Voc.) PROGRAMME
SUSTAINABLE ENERGY MANAGEMENT**

SYLLABUS

(Effective from the academic year 2023 – 2024)

PROJECT

CODE:23VS/MC/PR615

CREDITS: 15

OBJECTIVES OF THE COURSE

- To enable the student to work independently
- To apply the skill development training they have gained during the course of study
- To enhance employability
- To develop technical, interpersonal and communication skills
- To know the ability to generate new ideas in food product development

GUIDELINES FOR PROJECT

Project is done individually in an industry / lab

Project requires practical work with the submission of a project report which will include the work executed.

The project report should be submitted in the prescribed format containing a minimum of 25 pages.

Guidelines for Evaluation:

The candidate will be evaluated by the Industrial partner/guide, based on attendance, maintenance of log book, experimental work and project report. The maximum marks will be 100.

Rubrics for Evaluation	Marks	Cognitive Level
Documentation	10	K1
Formulating topic statement	15	K2
Explaining the conceptual framework	25	K3
Textual analysis	25	K4
Research arguments	15	K5
Research conclusions	10	K6