

COURSE OF STUDY AND SCHEME OF EXAMINATIONS

Part	Code Paper	Course	Hours / Week			Credit	Hrs. Exam.	Marks		
			Lect.	Prac.	Total			CIA	Exam.	Total
SEMESTER I										
I	Language	Tamil - I	6	-	6	3	3	25	75	100
II	Language	English - I	6	-	6	3	3	25	75	100
III	Core-I	Poetry	5	-	5	5	3	25	75	100
III	Core-II	Grammar and Usage	5	-	5	5	3	25	75	100
III	Allied-I	Social History of England	6	-	6	5	3	25	75	100
IV		Value Education	2	-	2	2	3	25	75	100
SEMESTER II										
I	Language	Tamil -II	6	-	6	3	3	25	75	100
II	Language	English- II	6	-	6	3	3	25	75	100
III	Core -III	Prose	5	-	5	5	3	25	75	100
III	Core -IV	Indian Writing In English	5	-	5	5	3	25	75	100
III	Allied - II	History of English Literature	6	-	6	5	3	25	75	100
IV	EVS		2	-	2	2	3	25	75	100
SEMESTER III										
I	Language	Tamil- III	6	-	6	3	3	25	75	100
II	Language	English-III	6	-	6	3	3	25	75	100
III	Core -V	Drama	6	-	6	5	3	25	75	100
III	Allied -III	Literary Forms and Criticism	6	-	6	5	3	25	75	100
IV	SBEC - I	Creative Writing	2	-	2	3	3	25	75	100
IV	SBEC-II	Soft Skills for Career Communication	2	-	2	3	3	25	75	100
V	NMEC-I	Soft Skills for Career Communication	2	-	2	2	3	25	75	100



B A ENGLISH

Part	Paper Code	Course	Hours / Week			Exam. Hrs.	Marks			
			Lect.	Prac.	Total		CIA	Uni. Exam.	Total	
SEMESTER IV										
I	Language	Tamil - IV	6	-	6	3	3	25	75	100
II	Language	English - IV	6	-	6	3	3	25	75	100
III	Core-VI	Fiction	6	-	6	5	3	25	75	100
III	Allied IV	Phonetics and Transcription	6	-	6	5	3	25	75	100
III	SBEC III	Presentation Skills	2	-	2	3	3	25	75	100
IV	SBEC IV	Personality Development	2	-	2	2	3	25	75	10
V	NMEC II	Communication for Placement	2	-	2	2	3	25	75	100
SEMESTER V										
III	Core VII	Shakespeare	6	-	6	5	3	25	75	100
III	Core VII	Language and Linguistics	6	-	6	4	3	25	75	100
III	Core IX	Feminist Writing	6	-	6	5	3	25	75	100
III	Core X	American Literature	6	-	6	4	3	25	75	100
III	Elective I	English for Competitive Examination	6	-	6	5	3	25	75	100
SEMESTER VI										
III	Core XI	South Asian Literature	6	-	6	4	3	25	75	100
III	Core XII	English Language Teaching	6	-	6	4	3	25	75	100
III	Core XIII	Grammar and Semantics	6	-	6	4	3	25	75	100
III	Elective II	English Literature for Competitive Examinations	6	-	6	5	3	25	75	100
IV	Elective III	Communication Skills								
		Practical	6	-	6	5	3	25	75	100
V		Extentsion Activity								

*** No Examination – Participation in NCC / NSS / RRC / YRC / Others if any.



M.A. ENGLISH

COURSE OF STUDY AND SCHEME OF EXAMINATION

S.No.	Subject	Subject Title	Hours	University Examination			Credits
				Internal/25 %)	External/75 %)	Total	
I SEMESTER							
1.	Core – I	Chaucer and the Elizabethan Age	6	25	75	100	4
2.	Core – II	Restoration and the Augustan Age	6	25	75	100	4
3.	Core – III	The Romantic Age	6	25	75	100	4
4.	Core – IV	Indian Writing in English	6	25	75	100	4
5.	Elective - I	American Literature	6	25	75	100	4
		Total	30				20
II SEMESTER							
6.	Core – V	The Victorian Age	6	25	75	100	5
7.	Core – VI	20th Century Literature	6	25	75	100	5
8.	Core – VII	Shakespeare	6	25	75	100	5
9.	Elective - II	Linguistics and Stylistics	6	25	75	100	4
10.	EDC	Journalism and Mass Communication	4	25	75	100	4
11.	Commom Paper	Human Rights	2	25	75	100	2
		Total	30				25
III SEMESTER							
12.	Core – VIII	New Literatures in English	6	25	75	100	5
13.	Core – IX	Literary Criticism	6	25	75	100	5
14.	Core – X	Comparative Literature and Translation	6	25	75	100	5
15.	Core – XI	Women's Writing	6	25	75	100	5
16.	Elective III	The English Language	6	25	75	100	4
		Total	30				24



S.No.	Subject	Subject Title	Hours	University Examination			Credits
				Internal(25 %)	External(75 %)	Total	
IV SEMESTER							
17.	Core – XII	Research Methodology and Rhetoric	6	25	75	100	5
18.	Core – XIII	English Language Teaching	6	25	75	100	5
19.	Core – XIV	Journalism and Mass Communication	6	25	75	100	4
20.	Core	Project	6	25	75	100	5
21.	Elective IV	English Literature for Competitive Exams	6	25	75	100	4
		Total	30				23



M.PHIL. ENGLISH

5. COURSE OF STUDY AND SCHEME OF EXAMINATION

PART	PAPER	SUBJECT TITLE	CREDITS	TOTAL
I	Paper I	Research Methodology	4	100
I	Paper II	Critical Theory and Practical	4	100
I	Paper III	Specialization Paper	4	100
II	Paper IV	Dissertation	12	200
	Total		24	500



PERIYAR UNIVERSITY

COURSE OF STUDY AND SCHEME OF EXAMINATIONS

Part	Code Paper	Course	Hours / Week			Credit	Hrs. Exam.	Marks		
			Lect.	Prac.	Total			CIA	Exam.	Total
SEMESTER I										
I	Language	Tamil - I	6	-	6	3	3	25	75	100
II	Language	English - I- Communicative English-I	6	-	6	3	3	25	75	100
III	Core-I	Poetry	5	-	5	5	3	25	75	100
III	Core-II	Prose	5	-	5	5	3	25	75	100
III	Allied-I	Social History of England	6	-	6	5	3	25	75	100
IV	Add-on Course	Professional English - I	4	-	4	4	3	25	75	100
IV		Value Education	2	-	2	-	3	25	75	100
SEMESTER II										
I	Language	Tamil -II	6	-	6	3	3	25	75	100
II	Language	English- II	6	-	6	3	3	25	75	100
III	Core -III	Drama	5	-	5	5	3	25	75	100
III	Core -IV	Indian Writing In English	5	-	5	5	3	25	75	100
III	Allied - II	History of English Literature	6	-	6	5	3	25	75	100
IV	Add-on Course-I	Professional English - II	4	-	4	4	3	25	75	100
			-	-	-	-	-	-	-	-
IV	EVS		2	-	2	-	3	25	75	100
SEMESTER III										
I	Language	Tamil- III	6	-	6	3	3	25	75	100
II	Language	English-III	6	-	6	3	3	25	75	100
III	Core -V	Fiction	6	-	6	5	3	25	75	100
III	Allied -III	Literary Forms and Terms	6	-	6	5	3	25	75	100
IV	SBEC - I	Creative Writing	2	-	2	3	3	25	75	100
IV	SBEC-II	Film Studies	2	-	2	3	3	25	75	100
V	NMEC-I	Soft Skills for Career Communication	2	-	2	2	3	25	75	100



B A ENGLISH

Part	Paper Code	Course	Hours / Week			Credit	Exam. Hrs.	Marks		
			Lect.	Prac.	Total			CIA	Uni. Exam.	Total
SEMESTER IV										
I	Language	Tamil - IV	6	-	6	3	3	25	75	100
II	Language	English - IV	6	-	6	3	3	25	75	100
III	Core-VI	American Literature	6	-	6	5	3	25	75	100
III	Allied IV	History of English Language	6	-	6	5	3	25	75	100
III	SBEC III	Personality Traits	2	-	2	3	3	25	75	100
IV	SBEC IV	Career Skills & E-learning	2	-	2	3	3	25	75	100
V	NMEC II	Communication for Placement	2	-	2	2	3	25	75	100
V	Add-on course	Internship training programme	-	-	-	-	-	-	-	-
SEMESTER V										
III	Core VII	Shakespeare	6	-	6	5	3	25	75	100
III	Core VII	Linguistics and Phonetics	6	-	6	5	3	25	75	100
III	Core IX	Feminist Writing	6	-	6	5	3	25	75	100
III	Core X	Literary Criticism	6	-	6	5	3	25	75	100
III	Elective I	English for Employability	6	-	6	4	3	25	75	100
SEMESTER VI										
III	Core XI	Commonwealth literature	6	-	6	5	3	25	75	100
III	Core XII	English Language Teaching	6	-	6	5	3	25	75	100
III	Core XIII	Translation Studies	6	-	6	5	3	25	75	100
III	Elective II	English Literature for Competitive Examinations	6	-	6	4	3	25	75	100
IV	Elective III	Communication Skills - Practical	6	-	6	4	3	25	75	100
V		Extension Activity				1				
TOTAL						146	3800			

*** No Examination - Participation in NCC / NSS / RRC / YRC / Others if any.



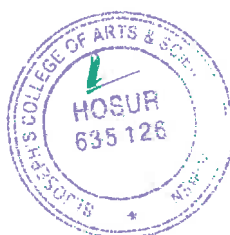
M.A. ENGLISH SYLLABUS 21-22 PERIYAR UNIVERSITY

COURSE OF STUDY – M. A. ENGLISH**SEMESTER-I**

S.NO	SUBJECT	SUBJECT TITLE	HOURS	INTERNAL	EXTERNAL	TOTAL	CREDITS
01	CORE I	CHAUCER TO THE PRE ROMANTICS	06	25	75	100	5
02	CORE-II	SHAKESPEARE	06	25	75	100	5
03	CORE-III	WORLD SHORT STORIES	06	25	75	100	5
04	CORE-IV	NON-BRITISH LITERATURE	06	25	75	100	5
05	ELECTIVE-I	ENGLISH FOR SPECIFIC PURPOSE	06	25	75	100	4
			30				24

SEMESTER –II

S.NO	SUBJECT	SUBJECT TITLE	HOURS	INTERNAL	EXTERNAL	TOTAL	CREDITS
06	CORE-V	ROMANTIC AND VICTORIAN AGE	06	25	75	100	5
07	CORE-VI	AMERICAN LITERATURE	06	25	75	100	5
08	CORE-VII	LANGUAGE AND LINGUISTICS	06	25	75	100	5
09	ELECTIVE-II	WOMEN'S WRITING	06	25	75	100	4
10	EDC	ENGLISH FOR COMPETITIVE EXAMINATION	04	25	75	100	4
11	COMMON PAPER	HUMAN RIGHTS	02	25	75	100	2
12		INTERNSHIP	--				--
			30				25



M.A. ENGLISH SYLLABUS 21-22 PERIYAR UNIVERSITY

SEMESTER –III

S.NO	SUBJECT	SUBJECT TITLE	HOURS	INTERNAL	EXTERNAL	TOTAL	CREDITS
11	CORE-VIII	RESEARCH METHODOLOGY	06	25	75	100	5
12	CORE-IX	20 TH CENTURY LITERATURE	06	25	75	100	5
13	CORE-X	LITERARY THEORY AND CRITICISM	06	25	75	100	5
14	CORE –XI	FOURTH WORLD LITERATURE	06	25	75	100	5
15	ELECTIVE-III	COMPARATIVE LITERATURE AND TRANSLATION	06	25	75	100	4
			30				24

SEMESTER –IV

S.NO	SUBJECT	SUBJECT TITLE	HOURS	INTERNAL	EXTERNAL	TOTAL	CREDITS
17	CORE-XII	ENGLISH LANGUAGE TEACHING AND ICT	06	25	75	100	5
18	CORE-XIII	INDIAN WRITING IN ENGLISH	06	25	75	100	5
19	CORE-IV	JOURNALISM AND MEDIA COMMUNICATION	06	25	75	100	5
20	CORE	PROJECT	06	25	75	100	4
21	ELECTIVE-IV	ENGLISH LITERATURE FOR COMPETITIVE EXAMINATIONS	06	25	75	100	4
			30				23

NOTE: INTERNSHIP AS A LANGUAGE TEACHER IN SCHOOLS AND COLLEGE / IN MEDIA /SOFT SKILLS TRAINING/PUBLISHING (PROOF READING IN ANY NEWSPAPERS OR PUBLISHING COMPANY) / MEDIA PHOTOGRAPHY (ALL INTERNSHIPS ARE MINIMUM 15 DAYS AND THE STUDENTS HAVE TO SUBMIT CERTIFICATES)



Duration

The duration of M.Phil programme shall be one year, consisting of two semesters under choice based credit system from the commencement of the course.

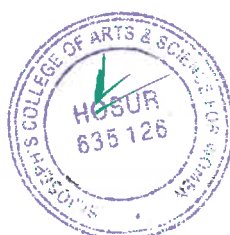
Course of study

The course of the study for the degree shall consist of (a) Part I comprising three written papers according to the Syllabus prescribed from time to time (b) Part II Dissertation.

Part I shall consist of two Core papers – Course I Research Methodology, Course II Literary Approaches and one Elective paper - Course III Specialisation paper. Course III Specialisation paper consists of five Electives and students can select any one paper from the five. Dissertation shall be submitted through the University Departments.

Structure of the Course and Scheme of Examination

Semester		Course Paper Code	Title of the Paper	Exam Hours	Credits	Marks		
						CIA	UE	Total
I	Core	Course I 18DMPEN01	Research Methodology	3	4	25	75	100
		Course II 18DMPEN02	Literary Approaches	3	4	25	75	100
	Elective	Course III 19DMPENE01	Drama	3	4	25	75	100
		19DMPENE02	Fiction					
		19DMPENE03	Poetry					
		19DMPENE04	Prose					
		19DMPENE05	World Literature					
II	Dissertation and Viva voce	Dissertation (150 Marks) viva voce (50 Marks)	-	12 (8+4)	Viva 50	150	200	
			Total	-	24	-	-	500

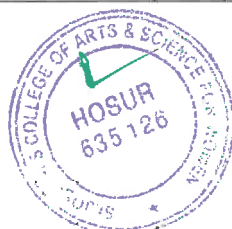


**I YEAR
FIRST SEMESTER**

Sl. NO	Course Category	Course	Credit Distribution				Credits	Total Contact Hours/ Week	Marks		
			L	T	P	S			CIA	ESE	Total
1	Part – I	LANGUAGE - Tamil	3	3			3	6	25	75	100
2	Part – II	Foundation ENGLISH	3	3			3	6	25	75	100
3	Part – III CORE 1	INTRODUCTION TO LITERATURE	3	2			5	5	25	75	100
4	Part – III CORE 2	INDIAN WRITING IN ENGLISH	3	2			5	5	25	75	100
5	Part – III ELECTIVE	SOCIAL HISTORY OF ENGLAND (ELECTIVE I)	2	2			3	4	25	75	100
6	Part – IV	NON MAJOR ELECTIVE-1 Popular Literature and Culture(offered to other Major students)	1	1			2	2	25	75	100
		Skill Enhancement Course (Foundation Course)-Functional English	1	1			2	2	25	75	100
		TOTAL					23	30			

SECOND SEMESTER

Sl. NO	Course Category	Course	Credit Distribution				Credits	Total Contact Hours/ Week	Marks		
			L	T	P	S			CIA	ESE	Total
1	PART I	LANGUAGE - Tamil	3	3			3	6	25	75	100
2	PART II	ENGLISH	3	3			3	6	25	75	100
3	PART III CORE 3	BRITISH LITERATURE – I	3	2			5	5	25	75	100
4	PART III CORE 4	AMERICAN LITERATURE – I	3	2			5	5	25	75	100
5	PART III ELECTIVE	HISTORY OF ENGLISH LITERATURE (ELECTIVE 2)	2	2			3	4	25	75	100
6	PART IV	NON MAJOR ELECTIVE -2- Philosophy for Literature-(Offered To Other Major Department Students)	1	1			2	2	25	75	100
		SKILL ENHANCEMENT COURSE-SEC-1 English for Communication	1	1			2	2	25	75	100
		TOTAL					23	30			



II-YEAR THIRD SEMESTER

SL NO	Course Category	Course	Credit Distribution				Credits	Total Contact Hours/ Week	Marks		
			L	T	P	S			CIA	ESE	Total
1	PART I	LANGUAGE - Tamil	3	3			3	6	25	75	100
2	PART II	ENGLISH	3	3			3	6	25	75	100
3	PART III CORE 5	BRITISH LITERATURE - II	3	2			5	5	25	75	100
4	PART III CORE 6	AMERICAN LITERATURE -II	3	2			5	5	25	75	100
5	PART III ELECTIVE	LITERARY GENRES AND TERMS ELECTIVE 3	2	2			3	4	25	75	100
6	PART IV	SKILL ENHANCEMENT COURSE-SEC 2 (ENTREPRENEURIAL SKILL)	1	0			1	1	25	75	100
		Skill Enhancement Course SEC-3-Public Speaking	1	1			2	2	25	75	100
		EVS	1	0			1	1	25	75	100
		TOTAL					22	30			

FOURTH SEMESTER

SL NO	Course Category	Course	Credit Distribution				Credits	Total Contact Hours/ Week	Marks		
			L	T	P	S			CIA	ESE	Total
1	PART I	LANGUAGE - Tamil	3	3			3	6	25	75	100
2	PART II	ENGLISH	3	3			3	6	25	75	100
3	PART III CORE 7	WORLD LITERATURE IN TRANSLATION	3	2			5	5	25	75	100
4	PART III CORE 8	ASPECTS OF LANGUAGE AND LINGUISTICS	3	2			5	5	25	75	100
5	PART III ELECTIVE	NON-MANDATORY ELECTIVE 4-Film and Literature	2	2			3	3	25	75	100
6	PART IV	SKILL ENHANCEMENT COURSE SEC-4-English for Career	1	1			2	2	25	75	100
		SKILL ENHANCEMENT COURSE SEC-5-English for Business	1	1			2	2	25	75	100
		EVS	1	0			2	1	25	75	100
		TOTAL					25	30			

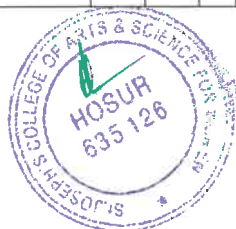


III YEAR -FIFTH SEMESTER

S L N O	Course Category	Course	Credit Distribution				Credits	Total Contact Hours/ Week	Marks		
			L	T	P	S			CIA	ESE	Total
1	PART III CORE 9	AUTHORS IN FOCUS	3	2			4	5	25	75	100
2	PART III CORE 10	WOMEN'S WRITING	3	2			4	5	25	75	100
3	PART III CORE 11	INDIAN WRITING IN TRANSLATION	3	2			4	5	25	75	100
4	PART III CORE 12	CHILDREN'S LITERATURE	3	2			4	5	25	75	100
5	PART III ELECTIVE	NON-MANDATORY ELECTIVE 5-Introduction to Comparative Literature	2	2			3	4	25	75	100
6	PART III ELECTIVE	NON-MANDATORYELECTIVE 6-Mass Communication and Journalism	2	2			3	4	25	75	100
7	PART IV	VALUE EDUCATION	1	1			2	2	25	75	100
		SUMMER INTERNSHIP/INDUSTRIAL TRAINING	-	-	2		2				
		TOTAL					26	30			

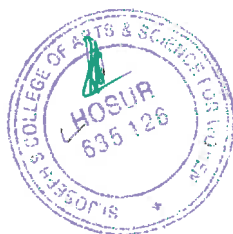
SIXTH SEMESTER

SL NO	Course Category	Course	Credit Distribution				Credits	Total Contact Hours/ Week	Marks		
			L	T	P	S			CIA	ESE	Total
1	PART III CORE 13	LITERARY CRITICISM	3	3			4	6	25	75	100
2	PART III CORE 14	BIOGRAPHIES,AUTO BIOGRAPHIES AND MEMOIRS (NON MANDATORY CORE)	3	3			4	6	25	75	100
3	PART III CORE 15	SHAKESPEARE STUDIES (NON MANDATORY CORE)	3	3			4	6	25	75	100
4	PART III ELECTIVE	NON-MANDATORY-ELECTIVE 7 Communicative English	3	2			3	5	25	75	100
5	PART III ELECTIVE	NON-MANDATORY-ELECTIVE 8 Digital Literacy and Concepts	3	2			3	5	25	75	100
6	PART IV	EXTENSION ACTIVITY	-	-			1		25	75	100
		PROFESSIONAL COMPETENCY SKILL- Interview Skills	1	1			2	2	25	75	100
		TOTAL					21	30			



M.A. English Structure of the Course

Paper Code	Subject	Paper Title	Hrs	Credit	Marks		
					CIA	EA	Total
I SEMESTER							
23PENCT01	Core I	Core– I English Poetry	7	5	25	75	100
23PENCT02	Core II	Core – II English Drama	7	5	25	75	100
23PENCT03	Core III	Core – III English Fiction	6	4	25	75	100
23PENME01	Elective I	Elective–I Indian Writing in English	5	3	25	75	100
23PENME02	Elective II	Elective – II Theatre Art	5	3	25	75	100
		Total	30	20	-	-	-
II SEMESTER							
23PENCT04	Core IV	Core–IV American Literature	6	5	25	75	100
23PENCT05	Core V	Core –V Shakespeare Studies	5	5	25	75	100
23PENCT06	Core VI	Core Course –VI Post-Colonial Theory and Literature	5	4	25	75	100
23PENME03	Elective III	Elective Course – III Approaches to English Language Teaching	4	3	25	75	100
23PENME04	Elective IV	Elective Course – IV A Glimpse of Nobel Laureates	4	3	25	75	100
23PENEC01	NME/EDC-I	English for Competitive Examinations	4	2	25	75	100
	Common Paper	Fundamentals of Human Rights	2	1	25	75	100
		Total	30	23	-	-	-



Paper Code	Subject	Paper Title	Hrs	Credit	Marks		
					CIA	EA	Total
III SEMESTER							
23PENCT07	Core VII	Core –VII Contemporary Literary Criticism	6	5	25	75	100
23PENCT08	Core VIII	Core –VIII Canadian Studies	6	5	25	75	100
23PENCT09	Core IX	Core – IX Literature of the Marginalized in India	6	5	25	75	100
23PENCT10	Core X	Core– X Film and Media Studies	6	4	25	75	100
23PENME05	Elective V	Elective –V Translation Studies	3	3	25	75	100
23PENEC02	NME/ EDC-II	Functional English	3	2	25	75	100
	Internship	Internship / Industrial Activity	-	2	-	-	-
		Total	30	26	-	-	-
IV SEMESTER							
23PENCT11	Core XI	Core – XI Twenty First Century Millennial Literature and Culture	6	5	25	75	100
23PENCT12	Core XII	Core– XII Subaltern Studies	6	5	25	75	100
23PENME06	Elective VI	Elective–VI English Literature for NTA,NET, SET& GATE	4	3	25	75	100
23PENPR01	Project with VIVA VOCE	Research Methodology & Project Writing	10	7	25	75	100
23PENSEC01	Skill Enhancement Course	English for Careers	4	2			
23PENEX01		Extension Activity		1			
		Total	30	23			
		TOTAL CREDITS		92			



COURSE OF STUDY AND SCHEME OF EXAMINATION

SEMESTER – I

PART	STUDY COMPONENTS	COURSES	HOURS / WEEK	CREDITS
Part - I	Languages	Tamil or anyone of the modern (Indian or foreign) or classical Languages - I	6	3
Part - II	Languages	English - I	6	3
Part - III	Core - I	Principles of Management	5	4
	Core - II	Introduction to Computer Technology	5	4
	Allied - I	Business Mathematics and Statistics	6	4
Part - IV	Non major -I	Yoga	2	2
	Value Education	Total	30	20

SEMESTER – II

PART	STUDY COMPONENTS	COURSES	HOURS / WEEK	CREDITS
Part - I	Languages	Tamil or anyone of the modern (Indian or foreign) or classical Languages - II	6	3
Part - II	Language	English - II	6	3
Part - III	Core - III	Organizational Behavior	5	5
	Core - IV	Office Automation	6	5
	Practical - I	MS – Office Practical	3	3
	Allied - II	Managerial Economics	5	4
Part - IV	Non major -II	Environmental Studies	2	2
		Total	30	22



SEMESTER –III

PART	STUDY COMPONENTS	COURSES	HOURS / WEEK	CREDITS
Part - III	Core - V	Financial and Cost Accounting	6	4
	Core - VI	Business Communication	6	4
	Core - VII	E-Business	6	4
	Allied - III	Operations Research	4	3
Part - IV	SBEC - I	1. Campus to Corporate - (Viva-Voce)	2	2
	SBEC - II	2. Fundamentals of Insurance	2	2
	SBEC - III	3. Life Skill Education	2	2
	NMEC - I	Principles of Management	2	2
		Total	30	24

SEMESTER –IV

PART	STUDY COMPONENTS	COURSES	HOURS / WEEK	CREDITS
Part - III	Core - VIII	Marketing Management	6	4
	Core - XI	Management Accounting	6	4
	Core - X	HTML and Web Design	6	4
	Practical - II	HTML and Web Design practical	4	3
	Allied - IV	Production and Material Management	5	4
Part -IV	SBEC -IV	1. Export and Import Documentation	2	2
	SBEC -V	2. Practice of Business Relations	2	2
	SBEC - VI	3. Inplant Training -(Viva -Voce)	2	2
	NMEC -II	1. Human Resource Management	2	2
		Total	30	25



SEMESTER – V

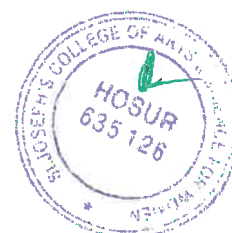
PART	STUDY COMPONENTS		COURSES			HOURS / WEEK	CREDITS	
Part - III	Core - XI		Financial Management			5	4	
	Core - XII		Human Resources Management			5	4	
	Core - XIII		Fundamental of Research Methodology			5	4	
	Core - XIV		RDBMS and Oracle			5	4	
	Practical III		RDBMS and Oracle Practical					
	Allied - V		Management Information System			5	4	
	GROUP-A	GROUP-B	GROUP-C	GROUP-D	GROUP-E	HRS	CR	
Electives -II	Service Marketing	Industrial Relations	Multimedia	Total Quality Management	Data Base Management Systems	4	4	
					Total	30	24	

SEMESTER – VI

PART	STUDY COMPONENTS		COURSES			HOURS / WEEK	CREDITS	
Part - III	Core Course - XV		Business Policy and Strategy			5	5	
Part -III	Core Course - XVI		Financial Institutions and Services			5	4	
	Core Course - XVII		Business Law			5	4	
	Core Course - XVIII		Project Work-Viva-voce			4	4	
	Allied Course - VI		Visual Basic			4	3	
	Practical - IV		Visual Basic Practical			3	2	
	GROUP-A	GROUP-B	GROUP-C	GROUP-D	GROUP-E	HRS	CR	
Electives -II	Retail Management	Training & Development	Entrepreneurial Development	Investment Management	Merchandising Management	4	3	
Part V	Extension Activities					-	1	
	TOTAL					30	25	

Note : Modern or classical languages:

- Indian – Telugu, Kannda, Malayalam, Urdu and Hindi
- Foreign – French
- Classical - Sanskrit, Arabic & Persian



Credit Distribution for UG Programmes

Credit Distribution for UG Programmes																	
Sem I	Credit	H	Sem II	Credit	H	Sem III	Credit	H	Sem IV	Credit	H	Sem V	Credit	H	Sem VI	Credit	H
Part 1. Language – Tamil	3	6	Part..1. Language – Tamil	3	6	Part..1. Language – Tamil	3	6	Part..1. Language – Tamil	3	6	5.1 Core Course – CC IX	4	5	6.1 Core Course – CC XIII	4	6
Part.2 English	3	6	Part..2 English	3	6	Part..2 English	3	6	Part..2 English	3	6	5.2 Core Course – CC X	4	5	6.2 Core Course – CC XIV	4	6
1.3 Core Course – CC I	5	5	2..3 Core Course – CC III	5	5	3.3 Core Course – CC V	5	5	4.3 Core Course – CC VII Core Industry Module	5	5	5.3 Core Course CC -XI	4	5	6.3 Core Course – CC XV	4	6
1.4 Core Course – CC II	5	5	2.4 Core Course – CC IV	5	5	3.4 Core Course – CC VI	5	5	4.4 Core Course – CC VIII	5	5	5.4 Core Course –/ Project with viva-voce CC -XII	4	5	6.4 Elective -VII Generic/ Discipline Specific	3	5
1.5 Elective I Generic/ Discipline Specific	3	4	2.5 Elective II Generic/ Discipline Specific	3	4	3.5 Elective III Generic/ Discipline Specific	3	4	4.5 Elective IV Generic/ Discipline Specific	3	3	5.5 Elective V Generic/ Discipline Specific	3	4	6.5 Elective VIII Generic/ Discipline Specific	3	5
1.6 Skill Enhancement Course SEC-1	2	2	2.6 Skill Enhancement Course SEC-2	2	2	3.6 Skill Enhancement Course SEC-4, (Entrepreneurial Skill)	1	1	4.6 Skill Enhancement Course SEC-6	2	2	5.6 Elective VI Generic/ Discipline Specific	3	4	6.6 Extension Activity	1	-
1.7 Skill Enhancement -(Foundation Course)	2	2	2.7 Skill Enhancement Course –SEC-3	2	2	3.7 Skill Enhancement Course SEC-5	2	2	4.7 Skill Enhancement Course SEC-7	2	2	5.7 Value Education	2	2	6.7 Professional Competency Skill	2	2
						3.8 E.V.S.	-	1	4.8 E.V.S	2	1	5.8 Summer Internship /Industrial Training	2				
	23	30		23	30		22	30		25	30		26	30		21	30
Total – 140 Credits																	



SEMESTER I		SUBJECTS	L	T	P	O	Hrs/week	CREDIT	MARKS		TOTAL
COURSE COMPONENT									CIA	External	
PartI	Paper-I	Language – Tamil	Y	-	-	-	6	3	25	75	100
Part II	Paper-I	English	Y	-	-	-	3	3	25	75	100
Part III	Core Paper-I	BBA-23UBXC001: Principles of Management	Y	-	-	-	5	5	25	75	100
	Core Paper-II	BBA-23UBXC002: Accounting for Management	Y	-	-	-	5	5	25	75	100
	Elective Paper-I	BBA-23UBXGE001: Managerial Economics	Y	-	-		4	3	25	75	100
Part IV	Skill Enhancement Course SEC1 - 23UBXSE001 - Basics of Event Management		Y	-	Y	-	2	2	25	75	100
	Foundation Course – BBA FC 01- 23UBXFC001 - Managerial Communication						2	2	25	75	100
	Total						30	23			



SEMESTER II		SUBJECTS	LTPO				Hrs/week	CREDIT	MAXMARKS		TOTAL
COURSE COMPONENT									CIA	EXT	
Part I	Paper–II	Language – Tamil	Y	-	-	-	6	3	25	75	100
Part II	Paper–II	English	Y	-	-	-	6	3	25	75	100
Part III	Core Paper–III	BBA-23UBXC003: Marketing Management	Y	-	-	-	5	5	25	75	100
	Core Paper–IV	BBA- 23UBXC004: Financial Management	Y	-	-	-	5	5	25	75	100
	Elective -II	BBA- 23UBXGE002: International Business	Y	-	-	-	4	3	25	75	100
Part IV	Skill Enhancement course SEC2- 23UBXSE002- Managerial Skill Development		Y	-	-	-	2	2	25	75	100
	SEC3- 23UBXSE003: Business Etiquette and Corporate Grooming						2	2	25	75	100
	Total						30	23			



SEMESTER III		SUBJECTS	L	T	P	O	Hrs/week	CREDIT	MAXMARKS		TOTAL
COURSE COMPONENT									INT	EXT	
Part I	Paper–III	Language – Tamil	Y	-	-	-	6	3	25	75	100
Part II	Paper–III	English	Y	-	-	-	6	3	25	75	100
Part III	Core Paper–V	BBA-23UBXC005: Organizational Behaviour	Y	-	-	-	5	5	25	75	100
	Core Paper–VI	BBA-23UBXC006: Applications of IT in Business	Y	-	-	-	5	5	25	75	100
	Elective – III	BBA-23UBXGE003: Business Statistics	Y	-	-	-	4	3	25	75	100
Part IV	SEC4 - 23UBXSE004: Computer Applications in Business		Y	-	Y	-	2	2	25	75	100
	SEC5- 23UBXSE005: Entrepreneurial Skill - New Venture Management		Y		Y		1	1	25	75	100
	Environmental Studies		Y	-	-	-	1				
	Total						30	22			



SEMESTER IV		SUBJECTS	L	T	P	O	Hrs/week	CREDIT	MAXMAR KS		TOTAL
COURSECOMPONENT									CIA	EXT	
Part I	Paper-IV	Language – Tamil	Y	-	-	-	6	3	25	75	100
Part II	Paper-IV	English	Y	-	-	-	6	3	25	75	100
Part III	Core Paper-VII	BBA - 23UBXC007: Business Regulatory Framework	Y	-	-	-	5	5	25	75	100
	Core Paper-VIII	BBA-23UBXC008: Web Technology-Theory and Practical	Y	-	-	-	5	5	25	75	100
	Elective Paper-IV	BBA-23UBXGE004: Operation Research	Y	-	-	-	3	3	25	75	100
Part IV	SEC6- 23UBXSE006: Tally				Y	-	2	2	25	75	100
	SEC7- 23UBXSE007 Intellectual Property Rights		Y	-	-	-	2	2	25	75	100
	Environmental Studies		Y	-	-	-	1	2	25	75	100
	Total						30	25			



Second year Vacation Internship -45 hours								2 credits			
SEMESTER V		SUBJECTS	L	T	P	O	Hrs/week	CREDIT	MAX MARKS		TOTAL
COURSE COMPONENT									CIA	EXT	
PartIII	Core Paper–IX	BBA-23UBXC009: Human Resource Management	Y	-	-	-	5	4	25	75	100
	Core Paper–X	BBA-23UBXC010: Research Methodology	Y	-	-	-	5	4	25	75	100
	Core Paper–XI	BBA-23UBXC011: Production and Materials management	Y	-	-	-	5	4	25	75	100
	Core Paper–XII	BBA-23UBXC012: Management Information Systems	Y	-	-	-	5	4	25	75	100
	Elective–V	BBA – 23UBXGE005: E-business Or BBA- 23UBXGE006: Strategic Management	Y	-	-	-	4	3	25	75	100
	Elective – VI Project	BBA- 23UBXPR001: Project with Viva –Voce	-	-	Y	-	4	3	20	80	100
Part IV	Value Education		Y	-	-	-	2	2			
	23UBXSI001 - Summer Internship / Industrial Training						-	2			
	Total						30	26			



SEMESTER VI		SUBJECTS	L	T	P	O	Hrs/week	CREDIT	MAXMAR		TOTAL
COURSE COMPONENT									CIA	EX T	
Part III	Core Paper–XIII	BBA-23UBXC013: Entrepreneurial Development	Y	-	-	-	6	4	25	75	100
	Core Paper–XIV	BBA-23UBXC014: RDBMS & Oracle Programming	Y				6	4			
	Core Paper–XV	BBA-23UBXC015: PYTHON PROGRAMMING THEORY AND PRACTICAL	Y				6	4	25	75	100
	Elective–VII	BBA-23UBXGE007: Fundamentals of Logistics Or BBA-23UBXGE008: Innovation Management Or BBA-23UBXGE009: Services Marketing	Y	-	-	-	5	3	25	75	100
	Elective–VIII	BBA-23UBXGE010: Big Data Analytics Or BBA-23UBXGE011: Artificial Intelligence	Y	-	-	-	5	3	25	75	100



	Professional Competency Enhancement								
	23UBXPCE001 - Quantitative Aptitude I				2	2	25	75	100
	23UBXPCE002 - Quantitative Aptitude II (2 hours each)								
Part V	Extension Activities	-	Y	-	-	1			
		-							
	Total				30	21			

Total Credits = 140



Summary:

Part	Subject	Papers	Credit	Total Credits	Papers	Marks	Total Marks
Part I	Languages	2	3	6	2	100	200
Part II	English	2	3	6	2	100	200
Part III	Core	9	4	36	10	100	1000
	Core	9	5	45	8	100	800
	Allied	4	4	16	4	100	400
	Electives	2	5	10	2	100	200
Part IV	Others	4	2	8	4	100	400
Part IV	Skill Based	4	3	12	4	100	400
Part V	Extension Activities	1	1	1	1	-	-
	Total			140			3600

(For the students admitted during the academic year 2017-2018 and onwards)

MODEL SCHEME OF EXAMINATIONS : CBCS PATTERN

(WITH 2 SEM LANGUAGE PAPERS)

Part	Study Components	Course Title	Ins. hrs / week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
Semester II								
I	Tamil - I		6	3	25	75	100	3
II	English-I		6	3	25	75	100	3
III	CORE I - Principles of Accountancy		5	3	25	75	100	4
III	CORE II - Business Communication		5	3	25	75	100	4
III	ALLIED I - Business Economics		6	3	25	75	100	4
IV	Value Education		2	3	25	75	100	2



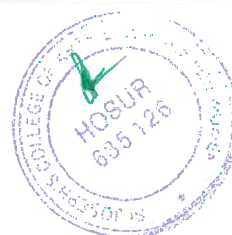
Summary:

Part	Subject	Papers	Credit	Total Credits	Papers	Marks	Total Marks
Part I	Languages	2	3	6	2	100	200
Part II	English	2	3	6	2	100	200
Part III	Core	9	4	36	10	100	1000
	Core	9	5	45	8	100	800
	Allied	4	4	16	4	100	400
	Electives	2	5	10	2	100	200
Part IV	Others	4	2	8	4	100	400
Part IV	Skill Based	4	3	12	4	100	400
Part V	Extension Activities	1	1	1	1	-	-
	Total			140			3600



COURSE OF STUDY AND SCHEME OF EXAMINATION

S.No.	Paper Code	Subject Title	Hours	University Examination			Credits
				Internal (25%)	External (75%)	Total	
I SEMESTER							
1	Core I	Marketing Management	6	25	75	100	4
2	Core II	Accounting for Managerial Decision	6	25	75	100	4
3	Core III	Financial Management	6	25	75	100	5
4	Core IV	Modern Banking	6	25	75	100	4
5		Elective I <i>(Any one of the following)</i>					
	Paper I:	Organisational Behaviour	6	25	75	100	4
	Paper II :	Business Environment					
II SEMESTER							
6	Core V	Advanced Cost Accounting	6	25	75	100	4
7	Core VI	Investment Analysis and Portfolio Management	4	25	75	100	4
8	Core VII	Advanced Business Statistics	6	25	75	100	4
9	Core VIII	E-Commerce	4	25	75	100	4
10		Elective II <i>(Any one of the following)</i>					
	Paper I:	Financial Markets and Institutions	4	25	75	100	4
	Paper II:	Export- Import Management					
11		Extra Disciplinary Course (EDC)	4	25	75	100	4
12	Common Paper	Human Rights	2	25	75	100	2



S.No.	Paper Code	Subject Title	Hours	University Examination			Credits
				Internal (25%)	External (75%)	Total	
III SEMESTER							
13	Core IX	Research Methodology	6	25	75	100	4
14	Core X	Advanced Corporate Accounting	6	25	75	100	5
15	Core XI	Human Resource Management	6	25	75	100	4
16	Core XII	Income Tax and Tax Planning	6	25	75	100	4
17		Elective III <i>(Any one of the following)</i>					
	Paper I:	Resource Management Techniques	6	25	75	100	4
	Paper II :	Retail Marketing					
IV SEMESTER							
18	Core XIII	Indirect Taxes	6	25	75	100	4
19	Core XIV	Services Marketing	6	25	75	100	4
20	Core XV	Project Work :Project - 150 Marks and Viva 50 Marks	12	-	-	200	10
21		Elective IV <i>(Any one of the following)</i>					
	Paper I :	Insurance and Risk Management	6	25	75	100	4
	Paper II :	Strategic Management					
		Total	120			2200	90

S.No.	Paper Code	Subject title	Exam Hours	Internal (25%)	External (75%)	Total	Credits
SEMESTER I							
1.	Paper - I	Business Communication	4	25	75	100	4
2.	Paper - II	Principles of Commerce	4	25	75	100	4
3.	Paper - III	Principles of Accounting	4	25	75	100	5



(For the students admitted during the academic year 2021 – 2022 and onwards)

MODEL SCHEME OF EXAMINATIONS: CBCS PATTERN

(WITH 2 SEM LANGUAGE PAPERS)

Part	Study Components	Course Title	Ins. Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
	Semester - I							
I	Language - I		6	3	25	75	100	3
II	English - I		6	3	25	75	100	3
III	CORE - I		5	3	25	75	100	4
III	CORE - II		5	3	25	75	100	4
III	ALLIED PAPER I		6	3	25	75	100	4
IV	Value Education		2	3	25	75	100	2

Summary:

Part	Subject	Papers	Credit	Total Credits	Papers	Marks	Total Marks
Part I	Languages	2	3	6	2	100	200
Part II	English	2	3	6	2	100	200
Part III	Core	2	2	4	2	100	200
	Core	8	4	32	8	100	800
	Core	10	5	50	10	100	1000
	Allied	2	2	4	2	100	200
	Allied	2	4	8	2	100	200
	Electives	2	5	10	2	100	200
Part IV	Others	4	2	8	4	100	400
Part IV	Skill Based	4	3	12	4	100	400
Part V	Extension Activities	1	1	1	1	-	-
	Total	39		141			3800



(For the students admitted during the academic year 2021 – 2022 and onwards)

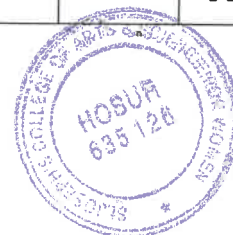
MODEL SCHEME OF EXAMINATIONS: CBCS PATTERN

(WITH 2 SEM LANGUAGE PAPERS)

Part	Study Components	Course Title	Ins. Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
	Semester - I							
I	Language - I		6	3	25	75	100	3
II	English - I		6	3	25	75	100	3
III	CORE - I		5	3	25	75	100	4
III	CORE - II		5	3	25	75	100	4
III	ALLIED PAPER I		6	3	25	75	100	4
IV	Value Education		2	3	25	75	100	2

Summary:

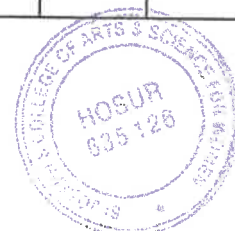
Part	Subject	Papers	Credit	Total Credits	Papers	Marks	Total Marks
Part I	Languages	2	3	6	2	100	200
Part II	English	2	3	6	2	100	200
Part III	Core	2	2	4	2	100	200
	Core	9	4	36	9	100	900
	Core	9	5	45	9	100	900
	Allied	2	2	4	2	100	200
	Allied	2	4	8	2	100	200
	Electives	2	5	10	2	100	200
Part IV	Others	4	2	8	4	100	400
Part IV	Skill Based	4	3	12	4	100	400
Part V	Extension Activities	1	1	1	1	-	-
	Total	39		140			3800



M Com (MASTER OF COMMERCE)

COURSE OF STUDY AND SCHEME OF EXAMINATION

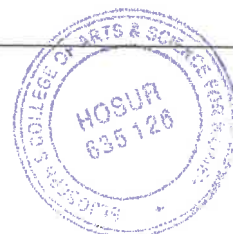
S.No.	Paper Code	Subject Title	Hours	University Examination			Credits
				Internal(25 %)	External(75 %)	Total	
I SEMESTER							
1	Core I	Marketing Management	6	25	75	100	4
2	Core II	Accounting for Managerial Decision	6	25	75	100	4
3	Core III	Financial Management	6	25	75	100	5
4	Core IV	Modern Banking	6	25	75	100	4
5		Elective I (Any one of the following)					
	Paper I:	Organisational Behaviour	6	25	75	100	4
	Paper II :	Business Environment					
II SEMESTER							
6	Core V	Advanced Cost Accounting	6	25	75	100	5
7	Core VI	Investment Analysis and Portfolio Management	4	25	75	100	5
8	Core VII	Advanced Business Statistics	6	25	75	100	4
9	Core VIII	E-Commerce	4	25	75	100	4
10		Elective II (Any one of the following)					
	Paper I:	Financial Markets and Institutions	4	25	75	100	4
	Paper II:	Export- Import Management					
11		Extra Disciplinary Course (EDC)	4	25	75	100	4
12	Common Paper	Human Rights	2	25	75	100	-
13	Add on Course	Internship Training				50	-



PERIYAR UNIVERSITY

S.N o.	Paper Code	Subject Title	Ho urs	University Examination			Credits
III SEMESTER							
14	Core IX	Research Methodology	6	25	75	100	4
15	Core X	Advanced Corporate Accounting	6	25	75	100	5
16	Core XI	Human Resource Management	6	25	75	100	4
17	Core XII	Income Tax and Tax Planning	6	25	75	100	4
18		Elective III <i>(Any one of the following)</i>					
	Paper I:	Resource Management Techniques	6	25	75	100	4
	Paper II :	Retail Marketing					
IV SEMESTER							
19	Core XIII	Goods and Service Tax	6	25	75	100	4
20	Core XIV	Services Marketing	6	25	75	100	4
21	Core XV	Project Work :Project - 150 Marks and Viva 50 Marks	12	-	-	200	10
22		Elective IV <i>(Any one of the following)</i>					
	Paper I :	Insurance and Risk Management	6	25	75	100	4
	Paper II :	Strategic Management					
		Total	120			2200	90

M Com (MASTER OF COMMERCE)



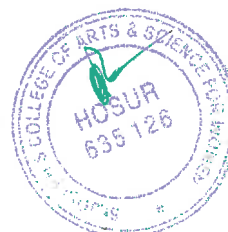
(For the students admitted during the academic year 2021 – 2022 and onwards)

MODEL SCHEME OF EXAMINATIONS: CBCS PATTERN**(WITH 4 SEM LANGUAGE PAPERS)**

Part	Study Components	Course Title	Ins. Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
	Semester - I							
I	Language - I		6	3	25	75	100	3
II	English - I		6	3	25	75	100	3
III	CORE - I		5	3	25	75	100	4
III	CORE - II		5	3	25	75	100	4
III	ALLIED PAPER I		6	3	25	75	100	4
IV	Value Education		2	3	25	75	100	2

Summary:

Part	Subject	Papers	Credit	Total Credits	Papers	Marks	Total Marks
Part I	Languages	4	3	12	4	100	400
Part II	English	2	3	6	2	100	200
Part III	Core	2	2	4	2	100	200
	Core	8	4	32	8	100	800
	Core	10	5	50	10	100	1000
	Allied	2	2	4	2	100	200
	Allied	2	4	8	2	100	200
	Electives	2	5	10	2	100	200
Part IV	Others	4	2	8	4	100	400
Part IV	Skill Based	4	3	12	4	100	400
Part V	Extension Activities	1	1	1	1	-	-
	Total	41		147			4000



(For the students admitted during the academic year 2021 – 2022 and onwards)

MODEL SCHEME OF EXAMINATIONS: CBCS PATTERN

(WITH 4 SEM LANGUAGE PAPERS)

Part	Study Components	Course Title	Ins. Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
	Semester - I							
I	Language - I		6	3	25	75	100	3
II	English - I		6	3	25	75	100	3
III	CORE - I		5	3	25	75	100	4
III	CORE - II		5	3	25	75	100	4
III	ALLIED PAPER I		6	3	25	75	100	4
IV	Value Education		2	3	25	75	100	2

Summary:

Part	Subject	Papers	Credit	Total Credits	Papers	Marks	Total Marks
Part I	Languages	4	3	12	4	100	400
Part II	English	2	3	6	2	100	200
Part III	Core	2	2	4	2	100	200
	Core	9	4	36	9	100	900
	Core	9	5	45	9	100	900
	Allied	2	2	4	2	100	200
	Allied	2	4	8	2	100	200
	Electives	2	5	10	2	100	200
Part IV	Others	4	2	8	4	100	400
Part IV	Skill Based	4	3	12	4	100	400
Part V	Extension Activities	1	1	1	1	-	-
	Total	39		146			4000



M Com (MASTER OF COMMERCE)

COURSE OF STUDY AND SCHEME OF EXAMINATION

S.No.	Paper Code	Subject Title	Hours	University Examination			Credits
				Internal(25 %)	External(75 %)	Total	
I SEMESTER							
1	Core I	Marketing Management	6	25	75	100	4
2	Core II	Accounting for Managerial Decision	6	25	75	100	4
3	Core III	Financial Management	6	25	75	100	5
4	Core IV	Modern Banking	6	25	75	100	4
5		Elective I <i>(Any one of the following)</i>					
	Paper I:	Organisational Behaviour	6	25	75	100	4
	Paper II :	Business Environment					
II SEMESTER							
6	Core V	Advanced Cost Accounting	6	25	75	100	5
7	Core VI	Investment Analysis and Portfolio Management	4	25	75	100	5
8	Core VII	Advanced Business Statistics	6	25	75	100	4
9	Core VIII	E-Commerce	4	25	75	100	4
10		Elective II <i>(Any one of the following)</i>					
	Paper I:	Financial Markets and Institutions	4	25	75	100	4
	Paper II:	Export- Import Management					
11		Extra Disciplinary Course (EDC)	4	25	75	100	4
12	Common Paper	Human Rights	2	25	75	100	-
13	Add on Course	Internship Training				50	-



PERIYAR UNIVERSITY

S.N o.	Paper Code	Subject Title	Ho urs	University Examination			Credits
III SEMESTER							
14	Core IX	Research Methodology	6	25	75	100	4
15	Core X	Advanced Corporate Accounting	6	25	75	100	5
16	Core XI	Human Resource Management	6	25	75	100	4
17	Core XII	Income Tax and Tax Planning	6	25	75	100	4
18		Elective III <i>(Any one of the following)</i>					
	Paper I :	Resource Management Techniques	6	25	75	100	4
	Paper II :	Retail Marketing					
IV SEMESTER							
19	Core XIII	Goods and Service Tax	6	25	75	100	4
20	Core XIV	Services Marketing	6	25	75	100	4
21	Core XV	Project Work :Project - 150 Marks and Viva 50 Marks	12	-	-	200	10
22		Elective IV <i>(Any one of the following)</i>					
	Paper I :	Insurance and Risk Management	6	25	75	100	4
	Paper II :	Strategic Management					
		Total	120			2200	90

M Com (MASTER OF COMMERCE)



Credit Distribution for UG Programmes

Sem I	Credit	H	Sem II	Credit	H	Sem III	Credit	H	Sem IV	Credit	H	Sem V	Credit	H	Sem VI	Credit	H
Part 1. Language – Tamil	3	6	Part.1. Language – Tamil	3	6	Part.1. Language – Tamil	3	6	Part.1. Language – Tamil	3	6	5.1 Core Course – CC IX	4	5	6.1 Core Course – CC XIII	4	6
Part.2 English	3	6	Part.2 English	3	6	Part.2 English	3	6	Part.2 English	3	6	5.2 Core Course – CC X	4	5	6.2 Core Course – CC XIV	4	6
1.3 Core Course – CC I	5	5	2.3 Core Course – CC III	5	5	3.3 Core Course – CC V	5	5	4.3 Core Course – CC VII Core Industry Module	5	5	5.3 Core Course – CC -XI	4	5	6.3 Core Course – CC XV	4	6
1.4 Core Course – CC II	5	5	2.4 Core Course – CC IV	5	5	3.4 Core Course – CC VI	5	5	4.4 Core Course – CC VIII	5	5	5.4 Core Course –/ Project with viva-voce CC -XII	4	5	6.4 Elective -VII Generic/ Discipline Specific	3	5
1.5 Elective I Generic/ Discipline Specific	3	4	2.5 Elective II Generic/ Discipline Specific	3	4	3.5 Elective III Generic/ Discipline Specific	3	4	4.5 Elective IV Generic/ Discipline Specific	3	3	5.5 Elective V Generic/ Discipline Specific	3	4	6.5 Elective VIII Generic/ Discipline Specific	3	5
1.6 Skill Enhancement Course SEC-1	2	2	2.6 Skill Enhancement Course SEC-2	2	2	3.6 Skill Enhancement Course SEC-4, (Entrepreneurial Skill)	1	1	4.6 Skill Enhancement Course SEC-6	2	2	5.6 Elective VI Generic/ Discipline Specific	3	4	6.6 Extension Activity	1	-
1.7 Skill Enhancement -(Foundation Course)	2	2	2.7 Skill Enhancement Course –SEC-3	2	2	3.7 Skill Enhancement Course SEC-5	2	2	4.7 Skill Enhancement Course SEC-7	2	2	5.7 Value Education	2	2	6.7 Professional Competency Skill	2	2
						3.8 E.V.S.	-	1	4.8 E.V.S	2	1	5.8 Summer Internship /Industrial Training	2				
	23	30		23	30		22	30		25	30		26	30		21	30
Total – 140 Credits																	



Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline Based Credit and Hours Distribution System for all UG courses including Lab Hours

First Year – Semester-I

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
Part-4	Skill Enhancement Course SEC-1	2	2
	Foundation Course	2	2
		23	30

Semester-II

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
		23	30

Second Year – Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	-	1
		22	30

Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	13
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
		25	30

**Third Year
Semester-V**

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
		26	30

Semester-VI

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based & LAB	18	28
Part-4	Extension Activity	1	-
	Professional Competency Skill	2	2
		21	30

Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	1	22
Part V	-	-	-	-	-	2	2
Total	23	23	22	25	26	21	140

***Part I, II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree.**



Credit Distribution for UG Programmes

Sem I	Credit	H	Sem II	Credit	H	Sem III	Credit	H	Sem IV	Credit	H	Sem V	Credit	H	Sem VI	Credit	H
Part 1. Language – Tamil	3	6	Part..1. Language – Tamil	3	6	Part..1. Language – Tamil	3	6	Part..1. Language – Tamil	3	6	5.1 Core Course – CC IX	4	5	6.1 Core Course – CC XIII	4	6
Part.2 English	3	6	Part..2 English	3	6	Part..2 English	3	6	Part..2 English	3	6	5.2 Core Course – CC X	4	5	6.2 Core Course – CC XIV	4	6
1.3 Core Course – CC I	5	5	2..3 Core Course – CC III	5	5	3.3 Core Course – CC V	5	5	4.3 Core Course – CC VII	5	5	5.3 Core Course – CC -XI	4	5	6.3 Core Course – CC XV	4	6
1.4 Core Course – CC II	5	5	2.4 Core Course – CC IV	5	5	3.4 Core Course – CC VI	5	5	4.4 Core Course – CC VIII	5	5	5.4 Core Course – Project with viva-voce	4	5	6.4 Elective –VII Generic/ Discipline Specific	3	5
1.5 Elective I Generic/ Discipline Specific	3	4	2.5 Elective II Generic/ Discipline Specific	3	4	3.5 Elective III Generic/ Discipline Specific	3	4	4.5 Elective IV Generic/ Discipline Specific	3	3	5.5 Elective V Generic/ Discipline Specific	3	4	6.5 Elective VIII Generic/ Discipline Specific	3	5
1.6 Skill Enhancement Course SEC-1	2	2	2.6 Skill Enhancement Course SEC-2	2	2	3.6 Skill Enhancement Course SEC-4, (Entrepreneurial Skill)	1	1	4.6 Skill Enhancement Course SEC-6	2	2	5.6 Elective VI Generic/ Discipline Specific	3	4	6.6 Extension Activity	1	-
1.7 Skill Enhancement –(Foundation Course)	2	2	2.7 Skill Enhancement Course –SEC-3	2	2	3.7 Skill Enhancement Course SEC-5	2	2	4.7 Skill Enhancement Course SEC-7	2	2	5.7 Value Education	2	2	6.7 Professional Competency Skill	2	2
			3.8 E.V.S.	-	1	4.8 E.V.S	2	1	5.8 Summer Internship /Industrial Training	2	2						
	23	30		23	30		22	30		25	30		26	30		21	30
Total – 140 Credits																	



Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline Based Credit and Hours Distribution System for all UG courses including Lab Hours

First Year – Semester-I

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
Part-4	Skill Enhancement Course SEC-1	2	2
	Foundation Course	2	2
		23	30

Semester-II

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
		23	30

Second Year – Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	-	1
		22	30

Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	13
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
		25	30



**Third Year
Semester-V**

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
		26	30

Semester-VI

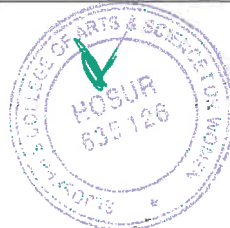
Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based & LAB	18	28
Part-4	Extension Activity	1	-
	Professional Competency Skill	2	2
		21	30

Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	1	22
Part V	-	-	-	-	-	2	2
Total	23	23	22	25	26	21	140

*Part I, II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree.

METHODS OF EVALUATION		
Internal Evaluation	Continuous Internal Assessment Test	25 Marks
	Assignments / Snap Test / Quiz	
	Seminars	
	Attendance and Class Participation	
External Evaluation	End Semester Examination	75 Marks
Total		100 Marks
METHODS OF ASSESSMENT		
Remembering (K1)	The lowest level of questions require students to recall information from the course content	



Template for P.G., Programmes

Semester-I	Credit	Hours	Semester-II	Credit	Hours	Semester-III	Credit	Hours	Semester-IV	Credit	Hours
1.1. Core-I	5	7	2.1. Core-IV	5	5	3.1. Core-VII	5	6	4.1. Core-XI	5	6
1.2 Core-II	5	7	2.2 Core-V	5	6	3.2 Core-VIII	5	6	4.2 Core-XII	5	6
1.3 Core – III	4	6	2.3 Core – VI	4	5	3.3 Core – IX	5	6	4.3 Project with viva voce	7	10
1.4 Discipline Centric Elective -I	3	5	2.4 Discipline Centric Elective – III	3	4	3.4 Core – X	4	6	4.4 Elective - VI (Industry / Entrepreneurship) 20% Theory 80% Practical	3	4
1.5 Generic Elective-II:	3	5	2.5 Generic Elective -IV:	3	4	3.5 Discipline Centric Elective - V	3	3	4.5 Skill Enhancement course / Professional Competency Skill	2	4
			2.6 NME I	2	4	3.6 NME II	2	3	4.6 Extension Activity	1	
			Human Rights	1	2	3.7 Internship/ Industrial Activity	2	-			
	20	30		23	30		26	30		23	30
Total Credit Points -92											



M. Venu 2021-24

Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline Based Credits and Hours Distribution System for all Post – Graduate Courses including Lab Hours

First Year – Semester – I

Part	List of Courses	Credits	No. of Hours
	Core – I	5	7
	Core – II	5	7
	Core – III	4	6
	Elective – I	3	5
	Elective – II	3	5
		20	30

Semester-II

Part	List of Courses	Credits	No. of Hours
	Core – IV	5	6
	Core – V	5	5
	Core – VI	4	5
	Elective – III	3	4
	Elective – IV	3	4
	NME-I	2	4
	Human Rights	1	2
		23	30

Second Year – Semester – III

Part	List of Courses	Credits	No. of Hours
	Core – VII	5	6
	Core – VIII	5	6
	Core – IX	5	6
	Core (Industry Module) – X	4	6
	Elective – V	3	3
	NME-II	2	3
	Internship / Industrial Activity [Credits]	2	-
		26	30

Semester-IV

Part	List of Courses	Credits	No. of Hours
	Core – XI	5	6
	Core – XII	5	6
	Project with VIVA VOCE	7	10
	Elective – VI (Industry Entrepreneurship)	3	4
	Skill Enhancement Course – III / Professional Competency Skill	2	4
	Extension Activity	1	-
		23	30

Total 92 Credits for PG Courses



CBCS PATTERN with effect from 2022-2023

Definitions :

Programme : -Programme means a course of study leading to the award of a degree in a discipline.

Course : -Course refers to a subject offered under the degree programme.

Part I : Tamil / Other languages : means —Tamil/other languages offered under Part I of the Programme.

Part II : English: means —English language offered under Part II of the programme.

Part III : Means —the core courses related to the programme concerned including (Core Courses) Practical offered under Part III of the programme.

Part III : Means -Allied courses offered under part-III of the programme, which is (Allied Courses) in nature but related to the programme concerned.

Part III : Means —Elective courses related to the core courses of the programme concerned. (Elective Courses) offered under Part III of the programme.

Part IV : Means basic orientation in Tamil language offered under Part IV(i) of the

i) **Tamil:** programme (as name of the course) for those students who have not studied Tamil Upto 12th standard.

ii) **Advanced Tamil:** Means, Advanced level Tamil offered under Part IV of the programme to students who have studied Tamil language upto 12th standard and chosen other languages under part I of the programme but would like to advance their Tamil language skills.

iii) **Non-Major Electives** Means elective subjects offered under Part IV (iii) option is being given not concerned with major but are to be selected by students who have not opted for (either) Advance Tamil or Tamil (as mandated).

iv) **Skill based Courses** - means the courses offered as skill based courses under Part IV (iv) of the programme aimed at imparting Advanced Skill.

v) **Foundation Course** : means courses such as

1) Value Education (1st year I Semester)

2) Environmental Studies (1st year II Semester)



REVISED SYLLABUS
COURSE OF STUDY AND SCHEME OF EXAMINATION
SEMESTER - I

Part	Study Components	Course Title	Hrs/Week	CIA	Uni. Exam	Total	Credits
I	Language	Tamil or any one of the modern (Indian or Foreign) or classical languages-I	6	25	75	100	3
I	Language	Communicative English - I	6	25	75	100	4
III	CORE-I	Principles of Management	4	25	75	100	4
III	CORE-II	Business Communication	4	25	75	100	4
III		Professional English for Commerce and Management-I	4	25	75	100	4
III	Allied - I	Business Mathematics and Statistics	5	25	75	100	4
IV		Value Education:- Yoga	1	25	75	100	1
			30				24

SEMESTER - II

Part	Study Components	Course Title	Hrs/Week	CIA	Uni. Exam	Total	Credits
I	Language	Tamil or any one of the modern (Indian or Foreign) or classical languages-II	6	25	75	100	3
I	Language	Communicative English - II	6	25	75	100	4
III	CORE-III	Organizational Behaviour	4	25	75	100	4
III	CORE-IV	MS - Office Practical	4	25	75	100	4
III		Professional English for Commerce and Management-II	4	25	75	100	4
III	Allied - II	Managerial Economics	5	25	75	100	4
IV	EVS	Environmental Studies	1	25	75	100	1
			30				24



SEMESTER - III

Part	Study Components	Course Title	Hrs/Week	CIA	Uni. Exam	Total	Credits
I	Language	Tamil or any one of the modern (Indian or Foreign) or classical languages-III	6	25	75	100	3
III	CORE - V	Marketing Management	5	25	75	100	4
III	CORE - VI	Financial Management	5	25	75	100	4
III	CORE - VII	Human Resource Management	5	25	75	100	4
III	Allied - III	E - Commerce	3	25	75	100	3
IV	SBEC - I	Fundamentals of Insurance	2	25	75	100	2
IV	SBEC-II	Campus to Corporate -(Viva-Voce)	2	25	75	100	2
IV	NMEC- I	Entrepreneurial Development	2				2
			30				24

SEMESTER - IV

Part	Study Components	Course Title	Hrs/Week	CIA	Uni. Exam	Total	Credits
I	Language	Tamil or any one of the modern (Indian or Foreign) or classical languages-IV	6	25	75	100	3
III	CORE - VIII	Production and Materials Management	5	25	75	100	4
III	CORE - IX	Financial and Cost Accounting	5	25	75	100	4
III	CORE - X	Business Law	5	25	75	100	4
III	Allied - IV	Taxation	3	25	75	100	3
IV	SBEC - III	Advertising	2	25	75	100	2
IV	SBEC-IV	Business Practices Viva - Voce	2	25	75	100	2
IV	NMEC- II	Human Resource Management	2				2
			30				24



SEMESTER - V

Part	Study Components	Course Title	Hrs/Week	CIA	Uni. Exam	Total	Credits
III	CORE - XI	Management Accounting	5	25	75	100	4
III	CORE - XII	Operations Research	5	25	75	100	4
III	CORE - XIII	HTML and Web Designing - Theory	4	25	75	100	4
III		HTML and Web Designing - Practical	3				2
III	CORE - XIV	Management Information System	4	25	75	100	4
III	CORE - XV	Fundamentals of Research Methodology	5	25	75	100	4
III	Elective - I		4	25	75	100	4
			30				26

SEMESTER -VI

Part	Study Components	Course Title	Hrs/Week	CIA	Uni. Exam	Total	Credits
III	CORE - XVI	Strategic Management	5	25	75	100	4
III	CORE - XVII	Financial Markets and Services	5	25	75	100	4
III	CORE - XVIII	Entrepreneurial Development	5	25	75	100	4
III	CORE - XIX	Tally - Theory	4				4
III		Tally -Practical	4	25	75	100	3
III	CORE - XX	Project Work	3				2
V	Elective - II		4	25	75	100	4
			30				27
		TOTAL HOURS	180 Hours				148 Credits

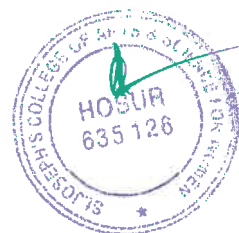
@No University Examinations. Only Credit is given.



List of Elective Papers(Colleges can choose any one group)		
Group A	I	Services Marketing
	II	Retail Management
Group B	I	Industrial Relations
	II	Training and Development
Group C	I	Multi Media
	II	Data Base Management System
Group D	I	Enterprise Resource Planning
	II	E-Business
Group E	I	Total Quality Management
	II	Merchandising Management

Note: Modern or classical languages:

- Indian–Telugu, Kannda, Malayalam, Urdu and Hindi
- Foreign–French
- Classical-Sanskrit, Arabic & Persian



CBCS PATTERN with effect from 2021 Onwards

Definitions:

Programme: -Programme means a course of study leading to the award of a degree in a discipline.

Course : -Course refers to a subject offered under the degree programme.

Part I : Tamil / Other languages: means —Tamil/other languages offered under Part I of the programme.

Part II : English: means —English language offered under Part II of the programme.

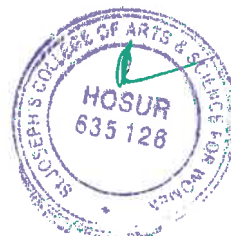
Part III : Means—the core courses related to the programme concerned including (Core Courses) practical's offered under Part III of the programme.

Part III : Means-Allied courses offered under part-III of the programme, which is (Allied Courses) in nature but related to the programme concerned.

Part III : Means—Elective courses related to the core courses of the program concerned.(Elective Courses) offered under Part III of the programme.

Part IV : Means basic orientation in Tamil language offered under Part IV(i) of the

- i) **Tamil:** programme (as name of the course) for those students who have not studied Tamil upto 12th standard.
- ii) **Advanced Tamil:** Means, Advanced level Tamil offered under Part IV of the programme to students who have studied Tamil language up to 12th standard and chosen other languages under part I of the programme but would like to advance their Tamil language skills.
- iii) **Non-Major Electives** Means elective subjects offered under Part IV (iii) option is being given not concerned with major but are to be selected by students who have not opted for (either) Advance Tamil or Tamil (as mandated).
- iv) **Skill based Courses** - means the courses offered as skill based courses under Part IV of the programme aimed at imparting Advanced Skill.
- v) **Foundation Course** : means courses such as
 - 1) Value Education (1st year I Semester)
 - 2) Environmental Studies (1st year II Semester)



REVISED SYLLABUS
COURSE OF STUDY AND SCHEME OF EXAMINATION

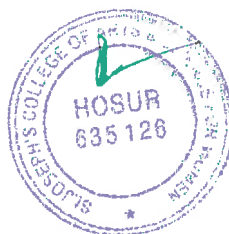
SEMESTER – I

Part	Study Components	Course Title	Hrs/ Week	CIA	Uni. Exam	Total	Credits
I	Tamil or anyone of the modern (Indian or Foreign) or classical languages - I		6	25	75	100	3
II	English – I Communicative English		6	25	75	100	4
III	Core I : Principles of Management		4	25	75	100	4
III	Core II : Business Communication		4	25	75	100	4
I	Allied I: Business Mathematics and Statistics – I		5	25	75	100	4
III	Add on Course : Professional English - I		4	25	75	100	4
IV	Value Education : Yoga		1				1
	Total		30				24



SEMESTER – II

Part	Study Components	Course Title	Hrs/ Week	CIA	Uni. Exam	Total	Credits
I	Tamil or anyone of the modern (Indian or Foreign)or classical languages - II		6	25	75	100	3
II	English – II Communicative English		6	25	75	100	4
III	Core III : Organizational Behavior		4	25	75	100	4
III	Practical - I : MS-Office Practical		4	40	60	100	4
III	Allied I : Business Mathematics and Statistics - II		5	25	75	100	4
I	Add on Course : Professional English - II		4	25	75	100	4
IV	Non Major : Environmental Studies		1	25	75	100	1
	Total		30				24



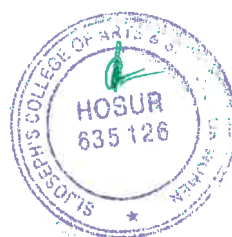
SEMESTER – III

Part	Study Components	Course Title	Hrs/ Week	CIA	Uni. Exam	Total	Credits
III	Core : IV	Marketing Management	5	25	75	100	4
III	Core : V	Financial Management	5	25	75	100	4
III	Core : VI	Human Resource Management	5	25	75	100	4
III	Core : VII	Production and Materials Management	5	25	75	100	4
III	Allied III :	Managerial Economics	6	25	75	100	3
IV	SBEC – I	Fundamentals of Insurance	2	25	75	100	2
IV	NMEC - I:	Entrepreneurial Development	2	25	75	100	2



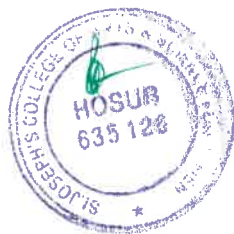
SEMESTER – IV

Part	Study Components	Course Title	Hrs/ Week	CIA	Uni. Exam	Total	Credits
III	Core : VIII Financial & Cost Accounting		5	25	75	100	4
III	Core : IX Taxation		5	25	75	100	4
III	Core : X HTML and Web Designing - Theory		6	25	75	100	4
	Practical – II HTML and Web Designing - Practical		4	40	60	100	4
III	Allied IV: Money Banking and Trade		6	25	75	100	3
IV	SBEC – II In-plant Training (Viva Voce)		2	25	75	100	2
IV	NMEC - II: Human Resource Management		2	25	75	100	2
	Total		30				23



SEMESTER –V

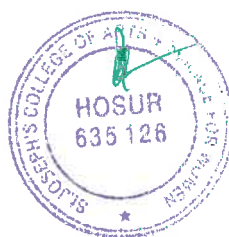
Part	Study Components	Course Title	Hrs/ Week	CIA	Uni. Exam	Total	Credits
III	Core : XI	Management Accounting	5	25	75	100	4
III	Core : XII	Operations Research	5	25	75	100	4
III	Core : XIII	Business Law	4	25	75	100	4
III	Core : XIV	Management Information System	6	25	75	100	4
III	Core XV :	Fundamentals of Research Methodology	4	25	75	100	4
III	Elective - I		4	25	75	100	4
IV	SBEC – III	Advertising	2	25	75	100	2
	Total		30				26



SEMESTER –VI

Part	Study Components	Course Title	Hrs/ Week	CIA	Uni. Exam	Total	Credits
III	Core : XVI Strategic Management		5	25	75	100	4
III	Core : XVII Financial Markets and services		5	25	75	100	4
III	Core : XVIII Entrepreneurial Development		5	25	75	100	4
III	Core : XIX Tally Theory Practical – III Tally		3 3	25 40	75 60	100 100	2 2
III	Core XX : Project Work		3	25	75	100	4
III	Elective - II		4	25	75	100	4
IV	SBEC – IV Campus to Corporate (Viva-Voce)		2	25	75	100	2
V	Extension Activities @		-	-	-	-	1
	Total		30				27
	Total		180 Hrs				147 Credits

@ No University Examinations. Only credit is given.



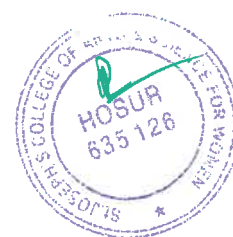
M.Phil. - SCHEME OF EXAMINATION**I - SEMESTER**

Code No	Title	Duration	Internal Marks	External Marks	Total Marks	Credit	Credit Total
19DMPCM01	Research Methods and Techniques	3 hrs	25	75	100	4	
19DMPCM02	Research on Sustainable Commerce	3 hrs	25	75	100	4	
19DMPCM03	Accounting and Auditing	3 hrs	25	75	100	4	
19DMPCM03	Banking, Insurance and Taxation	3 hrs	25	75	100	4	
19DMPCM03	E-Commerce	3 hrs	25	75	100	4	
19DMPCM03	Enterprise Resource Planning	3 hrs	25	75	100	4	
19DMPCM03	Financial Management	3 hrs	25	75	100	4	
19DMPCM03	International Trade	3 hrs	25	75	100	4	
19DMPCM03	Marketing Management	3 hrs	25	75	100	4	
19DMPCM03	Principles of Management	3 hrs	25	75	100	4	
19DMPCM03	Human Resource Management	3 hrs	25	75	100	4	
19DMPCM03	Entrepreneurship Development	3 hrs	25	75	100	4	
							12
							12



II-SEMESTER

Code No	Title	Duration	Internal Marks	External Marks	Total Marks	Credit	Total Credit
19DMPCM04	Dissertation and Viva-Voce		25	75	100	12	
						<u>12</u>	<u>24</u>



3 hrs

25

COURSE OF STUDY AND SCHEME OF EXAMINATION

Sem	Paper code	Title of the Paper	Duration Hrs.	CIA	Marks	Total Marks	Credits
I	Language	Tamil I	6	25	75	100	3
	Language	English I	6	25	75	100	3
	Core I	Cell Biology	5	25	75	100	4
	Allied I	Biochemistry I	5	25	75	100	4
	Core	Lab In Cell Biology	3	40	60	100	3
	Practical I						
	Value Education	Manavalakkalai - Yoga	2	25	75	100	2
II	Language	Tamil II	5	25	75	100	3
	Language	English II	5	25	75	100	3
	Core II	Genetics	5	25	75	100	4
	Allied II	Biochemistry II	5	25	75	100	4
	SBEC - I	Biophysics and Bioinstrumentation	2	25	75	100	2
	EVS	Environmental - Studies	2	25	75	100	2
	Core	Lab In Genetics	3	40	60	100	3
	Practical II						
	Allied Practical I	Lab In Biochemistry	3+3	40	60	100	3
III	Language	Tamil III	5	25	75	100	3
	Language	English III	5	25	75	100	3
	Core III	General Microbiology	5	25	75	100	4
	Allied III	Biostatistics	5	25	75	100	4
	SBEC - II	Development Biology	2	25	75	100	2
	NMEC - I	Concepts of Biotechnology	2	25	75	100	2
	Core	Lab In Microbiology	3	40	60	100	3
	Practical III						



Sem	Paper code	Title of the Paper	Duration Hrs.	CIA	Marks	Total Marks	Credits
IV	Language	Tamil IV	5	25	75	100	3
	Language	English IV	5	25	75	100	3
	Core IV	Molecular Biology	6	25	75	100	4
	Allied IV	Computer Applications In Biology	6	25	75	100	4
	NMEC - II	Biotechnology For Society	2	25	75	100	2
	Core	Lab in Molecular Biology	3	40	60	100	3
	Practical IV						
	Allied	Lab in Computer Applications in					
	Practical II	Biology & Biostatistics	3	40	60	100	3
V	Core V	Plant Biotechnology	6	25	75	100	4
	Core VI	Immunology and Immunotechnology	6	25	75	100	4
	Core VII	Genetic Engineering	5	25	75	100	4
	SBEC - III	Nanobiotechnology and					
		Bioinformatics	2	25	75	100	2
	Elective - I		5	25	75	100	4
	Core	Lab in Plant Biotechnology	3	40	60	100	4
	Practical V						
	Core	Lab in Genetic Engineering and					
VI	Practical VI	Immunology	3	40	60	100	4
	Core VIII	Animal Biotechnology	6	25	75	100	4
	Core IX	Proteomics and Genomics	6	25	75	100	4
	Core X	Bioprocess & Enzymology					
		Technology	5	25	75	100	4
	SBEC - IV	Pharmaceutical Biotechnology	2	25	75	100	2
	Elective- II		5	25	75	100	4
	Core	Lab in Animal Biotechnology	3	40	60	100	4
	Practical VII						
	Core	Lab in Bioprocess Technology					
	Practical VIII	and Enzymology	3	40	60	100	4
		Extension Actitiity					
		Total					140



B Sc BIOTECHNOLOGY

ELECTIVE SUBJECTS

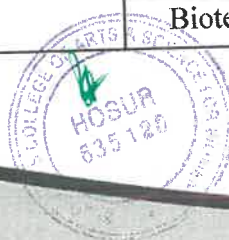
Sem	Part	Subject Code	Subject
V	III		Stem cell and Tissue Engineering
			Clinical Biotechnology
VI	III		Food Biotechnology
			Endocrinology

SKILL BASED ELECTIVE COURSES

SEM	PART	SUB CODE	COURSE	Hrs.		CRE DIT	MARKS		
				Lect.	LAB		CIA	EA	TOTAL
SEMESTER – IV									
IV	II		Biophysics and Bioinstrumentation	2	-	2	25	75	100
	III		Developmental Biology	2	-	2	25	75	100
	V		Nanobiotechnology and Bioinformatics	2	-	2	25	75	100
			Proteomics and Genomics	2	-	2	25	75	100
ALLIED PAPERS I YEAR									
III	I		Biochemistry I	6	-	4	25	75	100
	II		Biochemistry II	5	-	4	25	75	100
ALLIED PAPERS II YEAR									
III	III		Biostatistics	5	-	4	25	75	100
	IV		Computer Applications in Biology	6	-	4	25	75	100

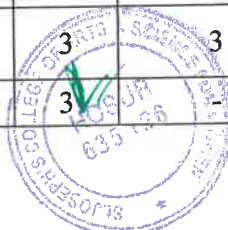
ELECTIVE SUBJECTS

Sem	Part	Subject Code	Subject
IV			Sconcepts of Biotechnology
			Biotechnology for Society



Course structure under OBE (Semester-wise Details)
Biotechnology
(For the students admitted from the Academic year 2021-2022 onwards)

PA RT	PAPER CODE	COURSE	TITLE OF THE PAPER	HOU RS	CREDIT	MARKS		TOTA L
						CI A	U E	
SEMESTER – I								
I	21UFTA01	Language I	Tamil – I	6	3	25	75	100
II	21UFEN01	Language II	English – I	6	3	25	75	100
IV	21UPEL01		Professional English I	6	4	25	75	100
III	21UBT01	Core Theory – I	Cell Biology	5	4	25	75	100
	21UBCA01	Allied I: Theory - I	Biochemistry -I	5	4	25	75	100
	21UBCAP01	Allied Practical – I	Lab in Biochemistry - I*	3	-	-	-	-
	21UBTP01	Core Practical – I	Lab in Cell biology	3	3	40	60	100
IV	21UVE01	Common	Value Education (Yoga)	2	2	100	75	100
NO. OF COURESES – 7			TOTAL	36	23	-	-	700
* Examination at the End of Second Semester								
SEMESTER – II								
I	21UFTA02	Language	Tamil – II	5	3	25	75	100
II	21UFEN02	Language	English – II	5	3	25	75	100
	21UPEL02		Professional English II	6	4	25	75	100
III	21UBT02	Core Theory – II	Genetics	5	4	25	75	100
	21UBCA02	Allied I: Theory - II	Biochemistry - II	5	4	25	75	100
	21UBTP02	Core Practical – II	Lab in Genetics	3	3	40	60	100
	21UCAP01	Allied practical- I	Lab in Biochemistry	3	3	40	60	100
IV	21UES01	Common	Environmental Studies	2	2	25	75	100
IV	21UBTS01	SBEC – I	Bioinstrumentation	2	2	25	75	100
NO. OF COURESES – 9			TOTAL	30	24	-	-	900
SEMESTER – III								
I	21UFTA03	Language	Tamil – III	5	3	25	75	100
II	21UFEN03	Language	English – III	5	3	25	75	100
III	21UBT03	Core Theory – III	General Microbiology	5	4	25	75	100
	21USTA05	Allied II: Theory - III	Biostatistics	5	4	25	75	100
	21UBTP03	CORE PRACTICAL – III	Lab in Microbiology	3	3	25	75	100
		Allied Practical	Computer Practical *	3	-	-	-	-



COURSE OF STUDY AND SCHEME OF EXAMINATION

Sem	Paper code	Title of the Paper	Duration Hrs.	CIA	Marks	Total Marks	Credits
I	Language	Tamil I	6	25	75	100	3
	Language	English I	6	25	75	100	3
	Core I	Cell Biology	5	25	75	100	4
	Allied I	Biochemistry I	5	25	75	100	4
	Core Practical I	Lab In Cell Biology	3	40	60	100	3
	Value Education	Manavalakkalai - Yoga	2	25	75	100	2
II	Language	Tamil II	5	25	75	100	3
	Language	English II	5	25	75	100	3
	Core II	Genetics	5	25	75	100	4
	Allied II	Biochemistry II	5	25	75	100	4
	SBEC - I	Biophysics and Bioinstrumentation	2	25	75	100	2
	EVS	Environmental - Studies	2	25	75	100	2
	Core Practical II	Lab In Genetics	3	40	60	100	3
	Allied Practical I	Lab In Biochemistry	3+3	40	60	100	3
III	Language	Tamil III	5	25	75	100	3
	Language	English III	5	25	75	100	3
	Core III	General Microbiology	5	25	75	100	4
	Allied III	Biostatistics	5	25	75	100	4
	SBEC - II	Development Biology	2	25	75	100	2
	NMEC - I	Concepts of Biotechnology	2	25	75	100	2
	Core Practical III	Lab In Microbiology	3	40	60	100	3



Sem	Paper code	Title of the Paper	Duration Hrs.	CIA	Marks	Total Marks	Credits
IV	Language	Tamil IV	5	25	75	100	3
	Language	English IV	5	25	75	100	3
	Core IV	Molecular Biology	6	25	75	100	4
	Allied IV	Computer Applications In Biology	6	25	75	100	4
	NMEC - II	Biotechnology For Society	2	25	75	100	2
	Core	Lab in Molecular Biology	3	40	60	100	3
	Practical IV						
	Allied	Lab in Computer Applications in					
	Practical II	Biology & Biostatistics	3	40	60	100	3
V	Core V	Plant Biotechnology	6	25	75	100	4
	Core VI	Immunology and Immunotechnology	6	25	75	100	4
	Core VII	Genetic Engineering	5	25	75	100	4
	SBEC - III	Nanobiotechnology and					
		Bioinformatics	2	25	75	100	2
	Elective - I		5	25	75	100	4
	Core	Lab in Plant Biotechnology	3	40	60	100	4
	Practical V						
	Core	Lab in Genetic Engineering and					
VI	Practical VI	Immunology	3	40	60	100	4
	Core VIII	Animal Biotechnology	6	25	75	100	4
	Core IX	Proteomics and Genomics	6	25	75	100	4
	Core X	Bioprocess & Enzymology					
		Technology	5	25	75	100	4
	SBEC - IV	Pharmaceutical Biotechnology	2	25	75	100	2
	Elective- II		5	25	75	100	4
	Core	Lab in Animal Biotechnology	3	40	60	100	4
	Practical VII						
	Core	Lab in Bioprocess Technology					
	Practical VIII	and Enzymology	3	40	60	100	4
		Extension Activity					
		Total					140

B Sc BIOTECHNOLOGY

ELECTIVE SUBJECTS

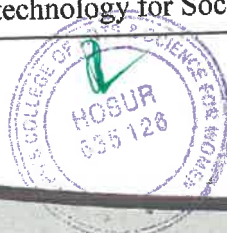
Sem	Part	Subject Code	Subject
V	III		Stem cell and Tissue Engineering
			Clinical Biotechnology
VI	III		Food Biotechnology
			Endocrinology

SKILL BASED ELECTIVE COURSES

SEM	PART	SUB CODE	COURSE	Hrs.		CRE DIT	MARKS		
				Lect.	LAB		CIA	EA	TOTAL
SEMESTER – IV									
IV	II		Biophysics and Bioinstrumentation	2	-	2	25	75	100
	III		Developmental Biology	2	-	2	25	75	100
	V		Nanobiotechnology and Bioinformatics	2	-	2	25	75	100
			Proteomics and Genomics	2	-	2	25	75	100
ALLIED PAPERS I YEAR									
III	I		Biochemistry I	6	-	4	25	75	100
	II		Biochemistry II	5	-	4	25	75	100
ALLIED PAPERS II YEAR									
III	III		Biostatistics	5	-	4	25	75	100
	IV		Computer Applications in Biology	6	-	4	25	75	100

ELECTIVE SUBJECTS

Sem	Part	Subject Code	Subject
IV			Sconcepts of Biotechnology
			Biotechnology for Society



COURSE OF STUDY AND SCHEME OF EXAMINATION

Sem	Paper code	Title of the Paper	Duration Hrs.	CIA	Marks	Total Marks	Credits
I	Language	Tamil I	6	25	75	100	3
	Language	English I	6	25	75	100	3
	Core I	Cell Biology	5	25	75	100	4
	Allied I	Biochemistry I	5	25	75	100	4
	Core Practical I	Lab In Cell Biology	3	40	60	100	3
	Value Education	Manavalakkalai - Yoga	2	25	75	100	2
II	Language	Tamil II	5	25	75	100	3
	Language	English II	5	25	75	100	3
	Core II	Genetics	5	25	75	100	4
	Allied II	Biochemistry II	5	25	75	100	4
	SBEC - I	Biophysics and Bioinstrumentation	2	25	75	100	2
	EVS	Environmental - Studies	2	25	75	100	2
	Core Practical II	Lab In Genetics	3	40	60	100	3
	Allied Practical I	Lab In Biochemistry	3+3	40	60	100	3
III	Language	Tamil III	5	25	75	100	3
	Language	English III	5	25	75	100	3
	Core III	General Microbiology	5	25	75	100	4
	Allied III	Biostatistics	5	25	75	100	4
	SBEC - II	Development Biology	2	25	75	100	2
	NMEC - I	Concepts of Biotechnology	2	25	75	100	2
	Core Practical III	Lab In Microbiology	3	40	60	100	3



Sem	Paper code	Title of the Paper	Duration Hrs.	CIA	Marks	Total Marks	Credits
IV	Language	Tamil IV	5	25	75	100	3
	Language	English IV	5	25	75	100	3
	Core IV	Molecular Biology	6	25	75	100	4
	Allied IV	Computer Applications In Biology	6	25	75	100	4
	NMEC - II	Biotechnology For Society	2	25	75	100	2
	Core	Lab in Molecular Biology	3	40	60	100	3
	Practical IV						
	Allied	Lab in Computer Applications in					
	Practical II	Biology & Biostatistics	3	40	60	100	3
V	Core V	Plant Biotechnology	6	25	75	100	4
	Core VI	Immunology and Immunotechnology	6	25	75	100	4
	Core VII	Genetic Engineering	5	25	75	100	4
	SBEC - III	Nanobiotechnology and					
		Bioinformatics	2	25	75	100	2
	Elective - I		5	25	75	100	4
	Core	Lab in Plant Biotechnology	3	40	60	100	4
	Practical V						
	Core	Lab in Genetic Engineering and					
	Practical VI	Immunology	3	40	60	100	4
VI	Core VIII	Animal Biotechnology	6	25	75	100	4
	Core IX	Proteomics and Genomics	6	25	75	100	4
	Core X	Bioprocess & Enzymology					
		Technology	5	25	75	100	4
	SBEC - IV	Pharmaceutical Biotechnology	2	25	75	100	2
	Elective- II		5	25	75	100	4
	Core	Lab in Animal Biotechnology	3	40	60	100	4
	Practical VII						
	Core	Lab in Bioprocess Technology					
	Practical VIII	and Enzymology	3	40	60	100	4
		Extension Actitiity					
		Total					140



B Sc BIOTECHNOLOGY

ELECTIVE SUBJECTS

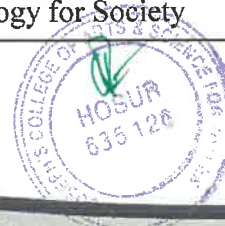
Sem	Part	Subject Code	Subject
V	III		Stem cell and Tissue Engineering
			Clinical Biotechnology
VI	III		Food Biotechnology
			Endocrinology

SKILL BASED ELECTIVE COURSES

SEM	PART	SUB CODE	COURSE	Hrs.		CRE DIT	MARKS		
				Lect.	LAB		CIA	EA	TOTAL
SEMESTER – IV									
IV	II		Biophysics and Bioinstrumentation	2	-	2	25	75	100
	III		Developmental Biology	2	-	2	25	75	100
	V		Nanobiotechnology and Bioinformatics	2	-	2	25	75	100
			Proteomics and Genomics	2	-	2	25	75	100
ALLIED PAPERS I YEAR									
III	I		Biochemistry I	6	-	4	25	75	100
	II		Biochemistry II	5	-	4	25	75	100
ALLIED PAPERS II YEAR									
III	III		Biostatistics	5	-	4	25	75	100
	IV		Computer Applications in Biology	6	-	4	25	75	100

ELECTIVE SUBJECTS

Sem	Part	Subject Code	Subject
IV			Sconcepts of Biotechnology
			Biotechnology for Society



Sem	Paper code	Title of the Paper	Duration Hrs.	CIA	Marks	Total Marks	Credits
IV	Language	Tamil IV	5	25	75	100	3
	Language	English IV	5	25	75	100	3
	Core IV	Molecular Biology	6	25	75	100	4
	Allied IV	Computer Applications In Biology	6	25	75	100	4
	NMEC - II	Biotechnology For Society	2	25	75	100	2
	Core	Lab in Molecular Biology	3	40	60	100	3
	Practical IV						
	Allied	Lab in Computer Applications in					
	Practical II	Biology & Biostatistics	3	40	60	100	3
V	Core V	Plant Biotechnology	6	25	75	100	4
	Core VI	Immunology and Immunotechnology	6	25	75	100	4
	Core VII	Genetic Engineering	5	25	75	100	4
	SBEC - III	Nanobiotechnology and					
		Bioinformatics	2	25	75	100	2
	Elective - I		5	25	75	100	4
	Core	Lab in Plant Biotechnology	3	40	60	100	4
	Practical V						
	Core	Lab in Genetic Engineering and					
	Practical VI	Immunology	3	40	60	100	4
VI	Core VIII	Animal Biotechnology	6	25	75	100	4
	Core IX	Proteomics and Genomics	6	25	75	100	4
	Core X	Bioprocess & Enzymology					
		Technology	5	25	75	100	4
	SBEC - IV	Pharmaceutical Biotechnology	2	25	75	100	2
	Elective- II		5	25	75	100	4
	Core	Lab in Animal Biotechnology	3	40	60	100	4
	Practical VII						
	Core	Lab in Bioprocess Technology					
	Practical VIII	and Enzymology	3	40	60	100	4
		Extension Actitiity					
		Total					140



Course structure under OBE (Semester-wise Details)
Biotechnology
(For the students admitted from the Academic year 2021-2022 onwards)

PART	PAPER CODE	COURSE	TITLE OF THE PAPER	HOURS	CREDIT	MARKS		TOTAL	
						CI A	U E		
SEMESTER – I									
I	21UFTA01	Language I	Tamil – I	6	3	25	75	100	
II	21UFEN01	Language II	English – I	6	3	25	75	100	
IV	21UPEL01		Professional English I	6	4	25	75	100	
III	21UBT01	Core Theory – I	Cell Biology	5	4	25	75	100	
	21UBCA01	Allied I: Theory - I	Biochemistry -I	5	4	25	75	100	
	21UBCAP01	Allied Practical – I	Lab in Biochemistry - I*	3	-	-	-	-	
	21UBTP01	Core Practical – I	Lab in Cell biology	3	3	40	60	100	
IV	21UVE01	Common	Value Education (Yoga)	2	2	100	75	100	
NO. OF COURESES – 7				TOTAL	36	23	-	-	700
* Examination at the End of Second Semester									
SEMESTER – II									
I	21UFTA02	Language	Tamil – II	5	3	25	75	100	
II	21UFEN02	Language	English – II	5	3	25	75	100	
	21UPEL02		Professional English II	6	4	25	75	100	
III	21UBT02	Core Theory – II	Genetics	5	4	25	75	100	
	21UBCA02	Allied I: Theory - II	Biochemistry - II	5	4	25	75	100	
	21UBTP02	Core Practical – II	Lab in Genetics	3	3	40	60	100	
	21UCAP01	Allied practical- I	Lab in Biochemistry	3	3	40	60	100	
IV	21UES01	Common	Environmental Studies	2	2	25	75	100	
IV	21UBTS01	SBEC – I	Bioinstrumentation	2	2	25	75	100	
NO. OF COURESES – 9				TOTAL	30	24	-	-	900
SEMESTER – III									
I	21UFTA03	Language	Tamil – III	5	3	25	75	100	
II	21UFEN03	Language	English – III	5	3	25	75	100	
III	21UBT03	Core Theory – III	General Microbiology	5	4	25	75	100	
	21USTA05	Allied II: Theory - III	Biostatistics	5	4	25	75	100	
	21UBTP03	CORE PRACTICAL – III	Lab in Microbiology	3	3	25	75	100	
		Allied Practical	Computer Practical *			-	-	-	



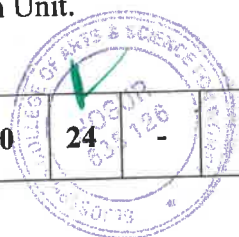
Course structure under OBE (semester – wise details) B.Sc., Biotechnology (for the students admitted from the academic year 2021-2022 onwards)

**Course structure under OBE (Semester-wise Details)
Biotechnology
(For the students admitted from the Academic year 2021-2022 onwards)**

PART	PAPER CODE	COURSE	TITLE OF THE PAPER	HOURS	CREDIT	MARKS		TOTAL
						CI A	U E	
SEMESTER – I								
I	21UFTA01	Language I	Tamil – I	6	3	25	75	100
II	21UFEN01	Language II	English – I	6	3	25	75	100
IV	21UPEL01		Professional English I	6	4	25	75	100
III	21UBT01	Core Theory – I	Cell Biology	5	4	25	75	100
	21UBCA01	Allied I: Theory - I	Biochemistry -I	5	3	25	75	100
	21UBCAP01	Allied Practical – I	Lab in Biochemistry - I*	3	-	-	-	-
	21UBTP01	Core Practical – I	Lab in Cell biology	3	3	40	60	100
IV	21UVE01	Common	Value Education (Yoga)	2	2	100	75	100
NO. OF COURESES – 7			TOTAL	36	22	-	-	700
* Examination at the End of Second Semester								
SEMESTER – II								
I	21UFTA02	Language	Tamil – II	5	3	25	75	100
II	21UFEN02	Language	English – II	5	3	25	75	100
	21UPEL02		Professional English II	4	4	25	75	100
	NMSDC	Language Proficiency for Employability	Effective English	2	2	25	75	100
III	21UBT02	Core Theory – II	Genetics	5	4	25	75	100
	21UBCA02	Allied I: Theory - II	Biochemistry - II	5	3	25	75	100
	21UBTP02	Core Practical – II	Lab in Genetics	3	3	40	60	100
	21UCAP01	Allied practical- I	Lab in Biochemistry	3	3	40	60	100
IV	21UES01	Common	Environmental Studies	2	2	25	75	100
IV	21UBTS01	SBEC – I	Bioinstrumentation	2	2	25	75	100
NO. OF COURESES – 9			TOTAL	36	29	-	-	1000



SEMESTER – III								
I	21UFTA03	Language	Tamil – III	5	3	25	75	100
II	21UFEN03	Language	English – III	5	3	25	75	100
	21UBT03	Core Theory – III	General Microbiology	4	3	25	75	100
	21USTA05	Allied II: Theory - III	Biostatistics	5	3	25	75	100
III	21UBTP03	CORE PRACTICAL – III	Lab in Microbiology	3	3	25	75	100
		Allied Practical	Computer Practical *	3	-	-	-	-
IV	21UBTS02	SBEC- II	Developmental Biology	2	2	25	75	100
	NMEC – I			1	1	25	75	100
	NMSDC-Digital Skills for Employability – Microsoft Office Essentials			2	2	25	75	100
NO. OF COURESES – 7				TOTAL		30	20	- - 700
* Examination at the End of Fourth Semester								
SEMESTER – IV								
I	21UFTA04	Language	Tamil – IV	5	3	25	75	100
II	21UFEN04	Language	English – IV	5	3	25	75	100
III	21UBT04	Core Theory – IV	Molecular Biology	5	4	25	75	100
		Allied II: Theory – IV	E-Commerce Techniques (OR) Computer Application in office	4	4	25	75	100
	21UBTP04	Core Practical – IV	Lab in Molecular Biology	3	3	40	60	100
		Allied Practical IV	HTML Programming (OR) Lab in Office Automation	3	3	40	60	100
IV		SBEC-NMSDC Digital skills for Employability	Office Fundamentals	2	2	25	75	100
		NMEC – II		2	2	25	75	100
	Internship Programme	Clinical Lab, Sericulture Farm, Effluent Treatment Plant, Sugarcane Industry, Fruit and Beverage Industries, Aavin Dairy, Horticulture Research Station, Soil Testing Organic Farming, Medical Coding, TNAU, Veterinary University, Plant TissueLab, Molecular Biology Lab, Medical Lab Technology, Bio Fertilizer Unit, MushroomProduction Unit.						
NO. OF COURESES – 7				TOTAL		30	24	- - 800



Analyze (K4)	Problem-solving questions, Finish a procedure in many steps, Differentiate between various ideas, Map knowledge
Evaluate (K5)	Longer essay/ Evaluation essay, Critique or justify with pros and cons
Create (K6)	Check knowledge in specific or offbeat situations, Discussion, Debating or Presentations

FIRST SEMESTER

Course Content	Paper code	Name of the Course	Title of the paper	Ins Hrs	Credits	Int. Marks	Ext. Marks	Total
Part – I		Language	Tamil I	6	3	25	75	100
Part - II		Language	English I	6	3	25	75	100
Part III	23UBTCT01	Core Paper I	Core Paper I -Cell and Developmental Biology	4	4	25	75	100
	23UBTCT02	Core paper II	Core paper II Molecular biology	3	3	25	75	100
	23UBTDE01	Elective I	Elective I Biological chemistry	3	3	25	75	100
	23UBTCP01	Core Practical I	Core practical I-Cell and Molecular Developmental Biology and biological chemistry	4	3	40	60	100
Part IV	23UBTNE01	*Skill Enhancement Course SEC-I (NME)	Food nutrition	2	2	25	75	100
	23UBTNE02		Public Health and Hygiene					
	23UBTFC01	Skill Enhancement (Foundation Course)	Mushroom cultivation technology	2	2	25	75	100
Total				30	23	215	585	800

*** Non major elective: Choose any one from the other department**



SECOND SEMESTER

Course Content	Paper code	Name of the Course	Title of the paper	Ins. Hrs	Credits	Int. Marks	Ext. Marks	Total
Part – I		Language	Tamil II	6	3	25	75	100
Part - II		Language	English II	6	3	25	75	100
Part - III	23UBTCT03	Core paper III	Core Paper III - Genetics	5	5	25	75	100
	23UBTCT04	Core paper IV	Core paper IV Human Physiology	2	2	25	75	100
	23UBTDE02	Elective II	Elective II Fundamentals of Microbiology	3	3	25	75	100
	23UBTCP02	Core practical II	Core Practical II – Genetics and Microbiology	4	3	40	60	100
	23UBTNE03	*Skill Enhancement Course SEC-2(NME)	1.Organic farming and health management	2	2	25	75	100
	23UBTNE04		2.Biotechnology for society					
	23UBTSE01	Skill Enhancement Course SEC-3	Vermicompost technology	2	2	25	75	100
Total				30	23	215	585	800

*** Non major elective: Choose any one from the other department**



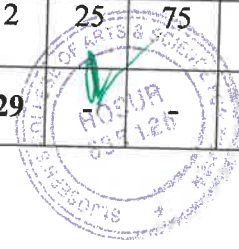
Course structure under OBE (semester – wise details) B.Sc., Biotechnology (for the students admitted from the academic year 2021-2022 onwards)

Course structure under OBE (Semester-wise Details)

Biotechnology

(For the students admitted from the Academic year 2021-2022 onwards)

PART	PAPER CODE	COURSE	TITLE OF THE PAPER	HOURS	CREDIT	MARKS		TOTAL
						CI A	U E	
SEMESTER – I								
I	21UFTA01	Language I	Tamil – I	6	3	25	75	100
II	21UFEN01	Language II	English – I	6	3	25	75	100
IV	21UPEL01		Professional English I	6	4	25	75	100
III	21UBT01	Core Theory – I	Cell Biology	5	4	25	75	100
	21UBCA01	Allied I: Theory - I	Biochemistry -I	5	3	25	75	100
	21UBCAP01	Allied Practical – I	Lab in Biochemistry - I*	3	-	-	-	-
	21UBTP01	Core Practical – I	Lab in Cell biology	3	3	40	60	100
IV	21UVE01	Common	Value Education (Yoga)	2	2	100	75	100
NO. OF COURESES – 7			TOTAL	36	22	-	-	700
* Examination at the End of Second Semester								
SEMESTER – II								
I	21UFTA02	Language	Tamil – II	5	3	25	75	100
II	21UFEN02	Language	English – II	5	3	25	75	100
	21UPEL02		Professional English II	4	4	25	75	100
	NMSDC	Language Proficiency for Employability	Effective English	2	2	25	75	100
III	21UBT02	Core Theory – II	Genetics	5	4	25	75	100
	21UBCA02	Allied I: Theory - II	Biochemistry - II	5	3	25	75	100
	21UBTP02	Core Practical – II	Lab in Genetics	3	3	40	60	100
	21UCAP01	Allied practical- I	Lab in Biochemistry	3	3	40	60	100
IV	21UES01	Common	Environmental Studies	2	2	25	75	100
IV	21UBTS01	SBEC – I	Bioinstrumentation	2	2	25	75	100
NO. OF COURESES – 9			TOTAL	36	29			1000



SEMESTER – III								
I	21UFTA03	Language	Tamil – III	5	3	25	75	100
II	21UFEN03	Language	English – III	5	3	25	75	100
	21UBT03	Core Theory – III	General Microbiology	4	3	25	75	100
	21USTA05	Allied II: Theory - III	Biostatistics	5	3	25	75	100
	III	21UBTP03	CORE PRACTICAL – III	Lab in Microbiology	3	3	25	75
		Allied Practical	Computer Practical *	3	-	-	-	-
IV	21UBTS02	SBEC- II	Developmental Biology	2	2	25	75	100
	NMEC – I			1	1	25	75	100
NMSDC-Digital Skills for Employability – Microsoft Office Essentials				2	2	25	75	100
NO. OF COURESES – 7			TOTAL	30	20	-	-	700
* Examination at the End of Fourth Semester								
SEMESTER – IV								
I	21UFTA04	Language	Tamil – IV	5	3	25	75	100
II	21UFEN04	Language	English – IV	5	3	25	75	100
III	21UBT04	Core Theory – IV	Molecular Biology	5	4	25	75	100
		Allied II: Theory – IV	E-Commerce Techniques (OR) Computer Application in office	4	4	25	75	100
	21UBTP04	Core Practical – IV	Lab in Molecular Biology	3	3	40	60	100
		Allied Practical IV	HTML Programming (OR) Lab in Office Automation	3	3	40	60	100
IV		SBEC-NMSDC Digital skills for Employability	Office Fundamentals	2	2	25	75	100
	NMEC – II			2	2	25	75	100
	Internship Programme	Clinical Lab, Sericulture Farm, Effluent Treatment Plant, Sugarcane Industry, Fruit and Beverage Industries, Aavin Dairy, Horticulture Research Station, Soil Testing Organic Farming, Medical Coding, TNAU, Veterinary University, Plant TissueLab, Molecular Biology Lab, Medical Lab Technology, Bio Fertilizer Unit, MushroomProduction Unit.						
NO. OF COURESES – 7			TOTAL	30	24	-	-	800



For students admitted from 2021-2022 onwards

Part	Course	No.of Hours /week	Exam Hours	Credit	Marks		
					Internal	External	Total
I – SEMESTER							
I	Tamil or other language -I	6	3	3	25	75	100
II	English Paper -I	6	3	3	25	75	100
III	Core Chemistry Paper -I	5	3	5	25	75	100
III	Core Chemistry Practical-I	3	-	-	-	-	-
III	Allied– I (Maths or Botany or Zoology) (Theory)	4	3	5	25	75	100
III	Allied– I (Maths or Botany or Zoology) (Practical)	3	-	-	-	-	-
IV	Value Education	2	3	2	25	75	100
IV	Professional English- I [Add – On Course]	6	3	4	25	75	100
IV	Environmental Science	1	--	-	-	-	-
		36		22			600
II -SEMESTER							
I	Tamil or other language Paper-II	6	3	3	25	75	100
II	English Paper- II	6	3	3	25	75	100
III	Core Chemistry Paper -II	5	3	5	25	75	100
III	Core Chemistry Practical-I	3	3	4	40	60	100
III	Allied– II (Maths or Botany or Zoology) (Theory)	4	3	5	25	75	100
III	Allied Practical-I (Maths or Botany or Zoology)	3	3	4	40	60	100
IV	Environmental studies	1	3		25	75	100
IV	Skill based elective course I (SBEC I)- Food and Nutrition	2	3	3	25	75	100
IV	Professional English- II [Add – On Course]	6	3	4	25	75	100
		36		27			900

Total Credit for I & II Semester = 49 credits



For students admitted from 2021-2022 onwards

Part	Course	No. of Hours per week	Exam Hours	Credit	Marks		
					Internal	External	Total
III - SEMESTER							
I	Tamil or other language-III	6	3	3	25	75	100
II	English -III	6	3	3	25	75	100
III	Core ChemistryPaper-III	5	3	5	25	75	100
III	Core Chemistry Practical-II	3	-	-	-	-	-
III	Allied III Physics Theory- I	4	3	3	25	75	100
III	Allied Practical-II Physics Practical-I	3	-	-	-	-	-
IV	SBEC II- Polymer Chemistry	1	-	-	-	-	-
IV	Non Major Elective Course -I	2	3	2	25	75	100
		30		16			500
IV - SEMESTER							
I	Tamil or otherlanguage-IV	6	3	3	25	75	100
II	English - IV	6	3	3	25	75	100
III	Core ChemistryPaper-IV	5	3	5	25	75	100
III	Core ChemistryPractical-II	3	3	4	40	60	100
III	Allied IV – Physics Theory-II	4	3	3	25	75	100
III	Allied Practical-II Physics Practical-I	3	3	4	40	60	100
IV	SBEC II- Polymer Chemistry	1	3	3	25	75	100
IV	Non Major Elective course -II	2	3	2	25	75	100
	Internship 2 weeks report should be submitted						
		30		27			800

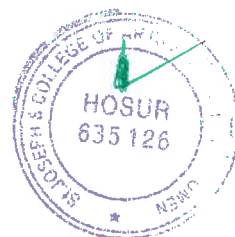
Total Credit for III & IV Semester = 43 credits



Part	Course	No. of Hours per week	Exam Hours	Credit	Marks		
					Internal	External	Total
V - SEMESTER							
III	Core Chemistry Paper -V (inorganic chemistry)	5	3	5	25	75	100
III	Core Chemistry Paper-VI (organic chemistry)	4	3	4	25	75	100
III	Core Chemistry Paper-VII (Physical Chemistry)	5	3	5	25	75	100
III	Elective Paper – I Analytical Chemistry –I	4	3	4	25	75	100
III	Core Chemistry Practical –III (Physical)	3	-	-	-	-	-
III	Core Chemistry Practical-IV (Organic & Gravimetric)	5	-	-	-	-	-
IV	SBEC – III Agricultural Chemistry	2	3	3	25	75	100
IV	SBEC – IV Dye Chemistry	2	3	3	25	75	100
		30		24			600
Total Credits for V Semester = 24 credits							
VI - SEMESTER							
III	Core Chemistry Paper -VIII (inorganic chemistry)	4	3	4	25	75	100
III	Core Chemistry Paper-IX (organic chemistry)	4	3	4	25	75	100
III	Core Chemistry Paper-X (Physical Chemistry)	4	3	4	25	75	100
III	Elective Paper II Nano & green chemistry	4	3	4	25	75	100
III	Elective Paper -III Industrial Chemistry	4	3	4	25	75	100
III	Core Chemistry Practical –III (physical)	3	3	4	40	60	100
III	Core Chemistry Practical –IV (Organic & Gravimetric)	5	6	6	40	60	100
IV	SBEC V – Pharmaceutical Chemistry	2	3	3	25	75	100
V	Extension activities			1			
		30		34			800

Total Credit for VI Semester = 34 credits

Total Credits for 3 years = 150 Credits



Curriculum Design and Credit Distribution for UG Programme in Chemistry

B.Sc., Chemistry

First Year

Semester - I

Part	List of Courses	Credit	Hours Per week (L/T/P)
Part-I	Language - Tamil	3	6
Part-II	English	3	6
Part-III	Core Courses 2 (CC1, CC2)	8	8
	Elective Course 1 (Generic/Discipline Specific) EC1	4	6
Part-IV	Skill Enhancement Course SEC-1 (Non-Major Elective)	2	2
	Foundation Course in Chemistry FC	2	2
		22	30

Semester - II

Part	List of Courses	Credit	Hours Per week (L/T/P)
Part-I	Language - Tamil	3	6
Part-II	English	3	6
Part-III	Core Courses 2 (CC3, CC4)	8	8
	Elective Course 1 (Generic/Discipline Specific) EC2	6	6
Part-IV	Skill Enhancement Course - SEC-2 (Non-Major Elective)	2	2
	Skill Enhancement Course - SEC-3 (Discipline Specific/Generic)	2	2
		24	30

Second Year

Semester - III

Part	List of Courses	Credit	Hours Per week (L/T/P)
Part-I	Language - Tamil	3	6
Part-II	English	3	6
Part-III	Core Courses 2 (CC5, CC6)	8	9
	Elective Course 1 (Generic/Discipline Specific) EC3	5	5
Part-IV	Skill Enhancement Course - SEC - 4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course - SEC - 5 (Discipline Specific/Generic)	2	2
	Environmental Studies (EVS)	-	1
		22	30



Semester - IV

Part	List of Courses	Credit	Hours Per week (L/T/P)
Part-I	Language - Tamil	3	6
Part-II	English	3	6
Part-III	Core Courses 2 (CC7, CC8)	8	8
	CC7: Core Industry Module-1		
	CC8: Any Core paper		
	Elective Course 1 (Generic/Discipline Specific) EC4	5	5
Part-IV	Skill Enhancement Course - SEC- 6	2	2
	Skill Enhancement Course - SEC - 7 (Discipline Specific/Generic)	2	2
	Environmental Studies EVS	2	1
		25	30

Third Year

Semester - V

Part	List of Courses	Credit	Hours Per week (L/T/P)
Part-III	Core Courses 4 (CC9, CC10, CC11, CC12)	14	17
	Elective Courses 2 (Generic/Discipline Specific) EC5, EC6	6	8
	Core/Project with Viva voce CC13	2	3
		2	2
Part-IV	Value Education	2	—
	Internship/Industrial Training (Carried out in II Year Summer vacation) (30 hours)	26	30

Semester - VI

Part	List of Courses	Credit	Hours Per week (L/T/P)
Part-III	Core Courses 4 (CC14, CC15, CC16, CC17)	12	19
	Elective Courses 2 (Generic/Discipline Specific) EC7, EC8	6	9
Part-IV	Professional Competency Skill	2	2
Part-V	Extension Activity (Outside College hours)	1	-
		21	30



Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	12	14	13	13	22	18	92
Part IV	4	4	3	6	4	2	23
Part V	-	-	-	-	-	1	1
Total	22	24	22	25	26	21	140

*Part I, II and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components IV, V have to be completed during the duration of the programme as per the norms, to be eligible to obtain the UG degree.

V. METHODS OF EVALUATION & METHODS OF ASSESSMENT

Methods of Evaluation-Theory		
Internal Evaluation	Continuous Internal Assessment Test	25 Marks
	Assignments	
	Attendance and Class Participation	
External Evaluation	End Semester Examination	75 Marks
	Total	100 Marks
Methods of Evaluation-Practical		
Internal Evaluation	Continuous Internal Assessment Test	40 Marks
	Attendance and Class Participation	
External Evaluation	End Semester Examination	60 Marks
	Record	
	Total	100 Marks
Methods of Assessment		
Recall(K1)	Simple definitions, MCQ, Recall steps, Concept definitions	
Understand/Comprehend(K2)	MCQ, True/False, Short essays, Concept explanations, Short summary or Over view	
Application (K3)	Suggest idea/concept with examples, Suggest formulae, Solve problems, Observe, Explain	
Analyze(K4)	Problem-solving questions, Finish a procedure in many steps, Differentiate Between various ideas, Map knowledge	
Evaluate(K5)	Longer essay/Evaluation essay, Critique or justify with pros and cons	
Create(K6)	Check knowledge in specific or off beat situations, Discussion, Debating or Presentations	



B.Sc. Chemistry Major (CBCS)**For students admitted from 2017-2018 onwards**

Part	Course	No. of Hours per week	Exam Hours	Credit	Marks		
					Internal	External	Total
I - SEMESTER							
I	Tamil or other language	6	3	3	25	75	100
II	English	6	3	3	25	75	100
III	Core Chemistry Major	5	3	5	25	75	100
III	Core Chem Major Practical	3	-	-	-	-	-
III	Allied I Maths (or)	7	3	5	25	75	100
III	Allied I Botany (or) Zoology or Physics	4	3	3	25	75	100
III	Allied I Botany (or) Zoology or Physics Practical	3	-	-	-	-	-
IV	Value Education	2	3	2	25	75	100
IV	Environmental Studies	1	-	-	-	-	-
II - SEMESTER							
I	Tamil or other language	6	3	3	25	75	100
II	English	6	3	3	25	75	100
III	Core Chemistry Major	5	3	5	25	75	100
III	Core Chemistry Major Practical	3	3	4	40	60	100
III	Allied I Maths (or)	7	3	5	25	75	100
III	Allied I Botany (or) Zoology or Physics	4	3	3	25	75	100
III	Allied I Botany (or) Zoology or Physics Practical	3	3	4	40	60	100
IV	Environmental studies	1	3	2	25	75	100
IV	Skill based elective course I (SBEC I)	2	3	2	25	75	100

Total Credit for I & II Semester = 42 credits



B.Sc. Chemistry Major (CBCS)**For students admitted from 2017-2018 onwards**

For students admitted from 2017-2018 onwards							
Part	Course	No. of Hours per week	Exam Hours	Credit	Marks		
					Internal	External	Total
III - SEMESTER							
I	Tamil or other language	6	3	3	25	75	100
II	English	6	3	3	25	75	100
III	Core Chemistry Major	5	3	5	25	75	100
III	Core Chem Major Practical	3	-	-	-	-	-
III	Allied II Maths (or)	7	3	5	25	75	100
III	Allied II Botany (or) Zoology or Physics	4	3	3	25	75	100
III	Allied II Botany (or) Zoology or Physics Practical	3	-	-	-	-	-
IV	SBEC II	1	-	-	-	-	-
IV	Non Major Elective Course	2	3	2	25	75	100
IV - SEMESTER							
I	Tamil or other language	6	3	3	25	75	100
II	English	6	3	3	25	75	100
III	Core Chemistry Major	5	3	5	25	75	100
III	Core Chemistry Major Practical	3	3	4	40	60	100
III	Allied II Maths (or)	7	3	5	25	75	100
III	Allied II Botany (or) Zoology or Physics	4	3	3	25	75	100
III	Allied II Botany (or) Zoology or Physics Practical	3	3	4	40	60	100
IV	SBEC II	1	3	2	25	75	100
IV	Non Major Elective course	2	3	2	25	75	100

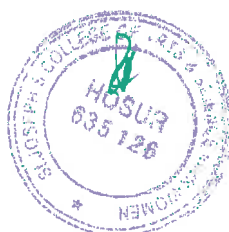
Total Credit for III & IV Semester = 42 credits



Part	Course	No. of Hours per week	Exam Hours	Credit	Marks		
					Internal	External	Total
V - SEMESTER							
III	Core Chem major (inorganic chemistry)	4	3	4	25	75	100
III	Core Chem major (organic chemistry)	4	3	4	25	75	100
III	Major Core Chemistry (Physical Chemistry)	4	3	4	25	75	100
III	Elective Paper – I Analytical Chemistry – I	5	3	5	25	75	100
III	Core Chem Major Prac (Physical)	3	-	-	-	-	-
III	Core Chem Major Prac (Organic & Gravimetric)	6	-	-	-	-	-
IV	SBEC – III	2	3	2	25	75	100
IV	SBEC – IV	2	3	2	25	75	100
Total Credits for V Semester = 21 credits							
VI - SEMESTER							
III	Core Chem (inorganic chemistry)	4	3	4	25	75	100
III	Elective Paper II (organic chemistry)	5	3	5	25	75	100
III	Core Course (Physical Chem)	4	3	4	25	75	100
III	Elective Paper III Analytical Chem II	5	3	5	25	75	100
III	Core Chem Major Practical (physical)	3	3	4	40	60	100
III	Core Chem Major Practical (Organic & Gravimetric)	5	6	8	40	60	100
IV	SBEC V – Pharmaceutical Chemistry	2	3	2	25	75	100
IV	SBEC VI – Industrial Chemistry	2	3	2	25	75	100
V	Extension activities			1			

Total Credit for VI Semester = 35 credits

Total Credits for 3 years = 140 Credits



COURSE OF STUDY AND SCHEME OF EXAMINATION

Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER I									
I	21UFTA01	Language – I	6	3	3	25	75	100	11
II	21UFEN01	English – I	6	3	3	25	75	100	
III	21UPH01	Core Physics – I (Properties of Matter and Acoustics)	5	3	5	25	75	100	
III	21UPHP01	Core Physics Practical – I*	3	3	-	-	-	-	16
III	21UMAA01	Allied Mathematics – I (Theory)	5	3	4	25	75	100	14
III	21UMAAP01	Allied Mathematics (Practical)*	2	3	-	-	-	-	
IV	21UEV01	Value Education	1	3	1	25	75	100	
IV	21UPEN01	Professional English – I	2	3	4	25	75	100	16
SEMESTER II									
I	21UFTA02	Language – II	6	3	3	25	75	100	14
II	21UFEN02	English – II	6	3	3	25	75	100	
III	21UPH02	Core Physics II (Mechanics)	5	3	5	25	75	100	
III	21UPHP01	Core Physics Practical – I*	3	3	5	40	60	100	16
III	21UMAA02	Allied Mathematics – II (Theory)	5	3	4	25	75	100	100
III	21UMAAP01	Allied Mathematics Practical *	2	3	4	40	60	100	
IV	21UES01	Environmental Studies	1	3	1	25	75	100	
IV	21UPEN01	Professional English –II	2	3	4	25	75	100	

* Continued from I semester and Examinations will be at the end of II semester



Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER III									
I	21UFTA03	Language – III	6	3	3	25	75	100	18
II	21UFEN03	English – III	6	3	3	25	75	100	
III	21UPH03	Core Physics – III (Thermal and Statistical Physics)	5	3	5	25	25	100	
III	21UPHP02	Core Physics Practical – II*	3	3	-	-	-	-	22
III	21UCHA01	Allied Chemistry– I (Theory)	4	3	4	25	75	100	51
III	21UCHAP01	Allied Chemistry Practical*	2	3	-	-	-	-	
IV	(Student’s choice)	Non-Major Elective Course –I	2	3	2	25	75	100	
IV	21UPHS01	SBEC I - Career Competency Skills- I	2	-	2	100	-	100	51
V	Online course	SWAYAM / NPTEL etc.,**	-	-	2	-	-	**	
SEMESTER IV									
I	21UFTA04	Language – IV	6	3	3	25	75	100	20
II	21UFEN04	English – IV	6	3	3	25	75	100	
III	21UPH04	Core Physics – IV (Optics and Spectroscopy)	5	3	5	25	75	100	
III	21UPHP02	Core Physics Practical – II*	3	3	5	40	60	100	22
III	21UCHA02	Allied Chemistry– II (Theory)	4	3	4	25	75	100	53
III	21UCHAP01	Allied Chemistry Practical *	2	3	4	40	60	100	
IV	(Student’s choice)	Non-Major Elective Course II	2	3	2	25	75	100	
IV	21UPHS02	SBEC – II: Career competency skills-II	2	-	2	100	-	100	53
V	21UPHIS01	Internship ***	-	-	2	-	-	-	

* Continued from III semester and Examinations will be at the end of IV semester.

** Students should submit their online course certificates at the end of the VI semester (8 to 12 weeks - 2 credit/per course will be allotted).

*** The students should undergo compulsory 2 weeks internship programs during the IV semester vacation. At the end of the program, students should submit the report.



Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER V									
III	21UPH05	Core Physics V (Electricity and Magnetism)	5	3	5	25	75	100	24
III	21UPH06	Core Physics – VI (Solid State Physics)	5	3	5	25	75	100	26
III	21UPH07	Core Physics – VII (Analog and Digital Electronics)	5	3	5	25	75	100	28
III	21UPHE01/ 21UPHE02	Elective – I (Materials Science / Astrophysics)	5	3	4	25	75	100	43/ 45
III	21UPHP03	Core Physics Practical – III*	3	3	-	-	-	-	39
III	21UPHP04	Core Physics Practical – IV*	3	3	-	-	-	-	41
IV	21UPHS03	Skill-based Elective course – III Computational methods and programming in-C	2	3	3	25	75	100	55
IV	21UPHS04	Skill-based Elective course – IV (Instrumentation)	2	3	3	25	75	100	57
SEMESTER VI									
III	21UPH08	Core Physics - VIII (Atomic Physics)	5	3	5	25	75	100	31
III	21UPH09	Core Physics - IX (Nuclear Physics)	5	3	5	25	75	100	34
III	21UPH10	Core Physics – X (Quantum Mechanics and Relativity)	5	3	5	25	75	100	37
III	21UPHE03 / 21UPHE04	Elective – II (Energy Physics / Electronic Communication Systems)	5	3	4	25	75	100	47/ 49
III	21UPHP03	Core Physics Practical – III*	3	3	5	40	60	100	39
III	21UPHP04	Core Physics Practical – IV*	3	3	5	40	60	100	41
IV	21UPHS05	Skill-based Elective course – V (Hardware skills)	2	3	3	25	75	100	59
IV	21UPHS06	Skill-based Elective course – VI (Microprocessor and its Applications)	2	3	3	25	75	100	61
V	21UEX01	Extension activities	-	-	1	-	-	-	

*Continued from V semester and examinations will be at the end of VI semester



பெரியார் பல்கலைக்கழகம்
PERIYAR UNIVERSITY

B.Sc., Physics

COURSE OF STUDY AND SCHEME OF EXAMINATION

Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER I									
I	21UFTA01	Language - I	6	3	3	25	75	100	
II	21UFEN01	English - I	6	3	3	25	75	100	
III	21UPH01	Core Physics - I	5	3	5	25	75	100	11
		(Properties of Matter and Acoustics)							
III	21UPHP01	Core Physics Practical - I*	3	3	-	-	-	-	16
III	21UMAA01	Allied Mathematics - I (Theory)	4	3	4	25	75	100	
III	21UMAAP01	Allied Mathematics (Practical)*	2	3	-	-	-	-	
IV	21UEV01	Value Education	1	3	1	25	75	100	
IV	21UPEN01	Professional English - I	3	3	4	25	75	100	
SEMESTER II									
I	21UFTA02	Language - II	6	3	3	25	75	100	
II	21UFEN02	English - II	4	3	3	25	75	100	
II	Naan Mudhalavan Skill based Courses	Language Proficiency for Employability	2	3	2	25	75	100	
III	21UPH02	Core Physics II (Mechanics)	5	3	5	25	75	100	14
III	21UPHP01	Core Physics Practical - I*	3	3	5	40	60	100	16
III	21UMAA02	Allied Mathematics - II (Theory)	4	3	4	25	75	100	
III	21UMAAP01	Allied Mathematics Practical *	2	3	4	40	60	100	



பெரியார் பல்கலைக்கழகம்
PERIYAR UNIVERSITY

IV	21UVE01	Environmental Studies	1	3	1	25	75	100	
IV	21UPEN01	Professional English -II	3	3	4	25	75	100	
* Continued from I semester and Examinations will be at the end of II semester									
Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER III									
I	21UFTA03	Language - III	6	3	3	25	75	100	
II	21UFEN03	English - III	6	3	3	25	75	100	
III	21UPH03	Core Physics - III	5	3	5	25	25	100	18
		(Thermal and Statistical Physics)							
III	21UPHP02	Core Physics Practical - II*	3	3	-	-	-	-	22
III	21UCHA01	Allied Chemistry- I (Theory)	4	3	4	25	75	100	
III	21UCHAP01	Allied Chemistry Practical*	2	3	-	-	-	-	
IV	(Student's choice)	Non-Major Elective Course -I	2	3	2	25	75	100	
IV	NMSDC	Digital Skill for Employability - Microsoft Office Essentials	2	-	2	100	-	100	51
V	Online course	SWAYAM / NPTEL etc.,**	-	-	2	-	-	**	
SEMESTER IV									
I	21UFTA04	Language - IV	6	3	3	25	75	100	
II	21UFEN04	English - IV	6	3	3	25	75	100	
III	21UPH04	Core Physics - IV	5	3	5	25	75	100	20
		(Optics and Spectroscopy)							
III	21UPHP02	Core Physics Practical - II*	3	3	5	40	60	100	22
III	21UCHA02	Allied Chemistry- II (Theory)	4	3	4	25	75	100	
III	21UCHAP01	Allied Chemistry Practical *	2	3	4	40	60	100	
IV	(Student's choice)	Non-Major Elective Course II	2	3	2	25	75	100	



பெரியார் பல்கலைக்கழகம்
PERIYAR UNIVERSITY

IV	Naan Mudhalavan Skill based Courses	Digital Skills for Employability-Office Fundamentals	2	3	2	100	-	100	
V	21UPHIS01	Internship ***	-	-	2	-	-	-	
* Continued from III semester and Examinations will be at the end of IV semester. ** Students should submit their online course certificates at the end of the VI semester(8 to 12 weeks - 2 credit/per course will be allotted). *** The students should undergo compulsory 2 weeks internship programs during the IV semester vacation. At the end of the program, students should submit the report.									
Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER V									
III	21UPH05	Core Physics V (Electricity and Magnetism)	5	3	5	25	75	100	24
III	21UPH06	Core Physics - VI (Solid State Physics)	5	3	5	25	75	100	26
III	21UPH07	Core Physics - VII (Analog and Digital Electronics)	5	3	5	25	75	100	28
III	21UPHE01/ 21UPHE02	Elective - I (Materials Science / Astrophysics)	5	3	4	25	75	100	43/ 45
III	21UPHP03	Core Physics Practical - III*	3	3	-	-	-	-	39
III	21UPHP04	Core Physics Practical - IV*	3	3	-	-	-	-	41
IV	21UPHS02	Skill-based Elective course - II Computational methods and programming in-C	2	3	3	25	75	100	55
IV	NMSDC	Technical Skills for Employability – Fundamentals of Data Analytics with Tableau	2	3	3	25	75	100	57
SEMESTER VI									
III	21UPH08	Core Physics - VIII (Atomic Physics)	5	3	5	25	75	100	31
III	21UPH09	Core Physics - IX (Nuclear Physics)	5	3	5	25	75	100	34
III	21UPH10	Core Physics - X (Quantum Mechanics and Relativity)	5	3	5	25	75	100	37



பெரியார் பல்கலைக்கழகம்
PERIYAR UNIVERSITY

III	21UPHE03 / 21UPHE04	Elective - II (Energy Physics / Electronic Communication Systems)	5	3	4	25	75	100	47/49
III	21UPHP03	Core Physics Practical - III*	3	3	5	40	60	100	39
III	21UPHP04	Core Physics Practical - IV*	3	3	5	40	60	100	41
IV	21UPHS04	Skill-based Elective course IV Microprocessor and its Applications	2	3	3	25	75	100	61
III	Elective Naan Mudhalavan Skill based Courses	Emerging Technology for Employability	2	3	2	25	75	100	
V	21UEX01	Extension activities	-	-	1	-	-	-	
*Continued from V semester and examinations will be at the end of VI semester									



COURSE OF STUDY AND SCHEME OF EXAMINATION

COURSE OF STUDY AND SCHEME OF EXAMINATION									
Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER – I									
I	23UFTA01	Language – I	6	3	3	25	75	100	
II	23UFEN01	Language – II (English– I)	6	3	3	25	75	100	
III	23UPHCT01	Core Course – I (Properties of Matter and Sound)	5	3	4	25	75	100	17
III	23UPHCP01	Core Course Practical–I*	3	3	3	40	60	100	20
III	23UMA ACT01	Allied Mathematics – I (Theory)	4	3	4	25	75	100	
III	23UMAACP01	Allied Mathematics-I (Practical)*	2	3	2	25	75	100	
IV		Skill Enhancement Course SEC1 [NME]	2	3	2	25	75	100	
IV	23UPHFC01	Foundation Course – (Introductory Physics)	2	3	2	25	75	100	15
SEMESTER – II									
I	23UFTA02	Language – I	6	3	3	25	75	100	
II	23UFEN02	Language – II (English– II)	6	3	3	25	75	100	
III	23UPHCT02	Core Course – II (Heat, Thermodynamics and Statistical Mechanics)	5	3	4	25	75	100	21
III	23UPHCP02	Core Course Practical – II*	3	3	3	40	60	100	24
III	23UMA ACT02	Allied Mathematics – II (Theory)	4	3	4	25	75	100	
III	23UMAACP01	Allied Mathematics – II (Practical)*	2	3	2	25	75	100	
IV		Skill Enhancement Course SEC 2 [NME]	2	3	2	25	75	100	
IV	23UPHSE03	Skill Enhancement Course SEC3(Instrumentation)	2	3	2	25	75	100	57
*Examination will be held at the end of the semester.									



Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER – III									
I	23UFTA03	Language – I	6	3	3	25	75	100	
II	23UFEN03	Language – II (English – III)	6	3	3	25	75	100	
III	23UPHCT03	Core Course– III (General Mechanics and Classical Mechanics)	4	3	4	25	25	100	25
III	23UPHCP03	Core Course Practical – III*	3	3	3	40	60	100	28
III	23UCHACT01	Allied Chemistry– I (Theory)	4	3	4	25	75	100	
III	23UCHACP01	Allied Chemistry –I (Practical*)	2	3	2	25	75	100	
IV	23UPHSE04	Skill Enhancement Course SEC 4 (Entrepreneurial Based)	2	3	1	25	75	100	63, 65
IV	23UPHSE05	Skill Enhancement Course SEC 5 (Computational methods and Programming in C)	2	3	2	25	75	100	59
IV	23UES01	Environmental studies (EVS)	1	3	-	-	-	-	
SEMESTER – IV									
I	23UFTA04	Language – I	6	3	3	25	75	100	
II	23UFTA04	Language – II(English – IV)	6	3	3	25	75	100	
III	23UPHCT04	Core Course – IV (Optics and Spectroscopy)	4	3	4	25	75	100	29
III	23UPHCP04	Core Course Practical – IV*	3	3	3	40	60	100	32
III	23UCHACT02	Allied Chemistry– II (Theory)	4	3	4	25	75	100	
III	23UCHACP02	Allied Chemistry – II (Practical*)	2	3	2	25	75	100	
IV	23UPHSE06	Skill Enhancement Course SEC 6 (Electronic devices)	2	3	2	25	75	100	60
IV	23UPHSE07	Skill Enhancement Course SEC 7 (Communication systems)	2	3	2	25	75	100	62
IV	23UES01	Environmental studies (EVS)	1	3	2	25	75	100	
*Examination will be held at the end of the semester.									

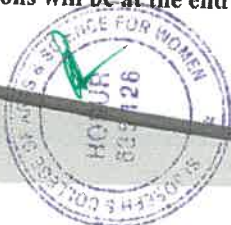


Part	Paper Code	Subject Title	Hours/week	Exam Hrs.	Credits	University Examination			Page No.
						Internal	External	Total	
SEMESTER – V									
III	23UPHCT05	Core Course – V (Atomic Physics and Lasers)	5	3	5	25	75	100	33
III	23UPHCT06	Core Course – VI (Relativity and Quantum Mechanics)	5	3	4	25	75	100	36
III	23UPHCT07	Core Course – VII (Electricity and Magnetism)	5	3	4	25	75	100	39
III	23UPHE01	Elective – I(Energy Physics)	5	3	3	25	75	100	51
III	23UPHE02	Elective – II (Materials Science)	5	3	3	25	75	100	53
III	23UPHCP05	Core Course Practical – V*	3	3	3	40	60	100	41
IV	23UEV01	Value Education	2	3	2	25	75	100	
IV	23UPHIO01	Internship/Industrial visit/Field visit**	-	-	2	-	-	-	
SEMESTER VI									
III	23UPHCT08	Core Course –VIII (Nuclear and Particle Physics)	5	3	3	25	75	100	42
III	23UPHCT09	Core course – IX (Solid State Physics)	5	3	3	25	75	100	45
III	23UPHCT10	Core Course – X (Digital Electronics &Microprocessor 8085)	5	3	3	25	75	100	49
III	23UPHE03	Elective – III (Nanoscience & Nanotechnology)	5	3	3	25	75	100	55
III	23UPHCP06	Core Course Practical – VI*	3	3	3	40	60	100	50
III	23UPHPR	Project***	5	3	3	-	-	100	
IV	23UEX01	Extension Activity	-	-	1	-	-	-	
IV	23UPHPC01	Professional Competency Skills	2	3	2	25	75	100	67
*Examination will be held at the end of the semester.									
** The students should undergo compulsory 2 weeks internship programs during the IV Semester vacation. The students should submit the report at the end of the V semester.									
***Project Report should be submitted at the end of the VI semester.									

COURSE OF STUDY AND SCHEME OF EXAMINATION

Sl. No.	Paper Code	Subject Title	Hours/Week	Exam Marks	Credits	University Examination			
SEMESTER I									
I	Core I	Tamil or any other language paper –I	6	3	3	25	75	100	
II		English – I	6	3	3	25	75	100	
III		Physics - I	5	3	5	25	75	100	
III		Physics Practical - I*	3	3	-	-	-	-	
III		Allied I	Allied - III (or) Chemistry - I	5	3	4	25	75	100
III		Allied Practical I	Chemistry Practical I*	2	3	-	-	-	-
IV			Value education	2	3	2	25	75	100
* - Examinations will be at the end of II semester									
SEMESTER II									
I	Core II	Tamil or any other Language –II	6	3	3	25	75	100	
II		English – II	6	3	3	25	75	100	
III		Physics	5	3	5	25	75	100	
III		Physics Practical - I*	3	3	4	-	-	-	
III		Allied III	Maths - II (or)	5	3	4	25	75	100
III		Allied II	Chemistry - II						
III		Allied II	Maths Paper III (Or)	2	3	2	-	-	-
III		Allied Practical	Chemistry Practical I*						
IV		SBEC - I	Skill based Elective course- I	2	3	2	-	-	-
IV		Environmental studies*	1	3	2	-	-	-	

* - Continued from I semester and Examinations will be at the end of II semester



Part	Paper Code	Subject Title	Hours /Week	Exam Hrs.	Credits	University Examination		
						Internal(25%)	External(75%)	Total
SEMESTER III								
I	Core III	Tamil or any other Language –III	6	3	3	25	75	100
II		English – III	6	3	3	25	75	100
III		Physics	5	3	5	25	75	100
III		Physics Practical	3	3	-	-	-	-
III	Allied I	Maths - I (or)	5	3	4	25	75	100
III	Allied II	Chemistry - I	2	3	-	-	-	-
		Maths – III	2	3	-	-	-	-
		(or)	2	3	-	-	-	-
	Practical I	Chemistry Practical I*						
IV	SBEC - II		2	3	2	25	75	100
IV	NMEC - I	Skill based Elective Course II	2	3	2	-	-	-
		Non Major elective course I						
* - Examinations will be at the end of IV semester								
SEMESTER IV								
I	Core IV	Tamil or any other Language –IV	6	3	3	25	75	100
II		English – IV	6	3	3	25	75	100
III		Physics	5	3	5	25	75	100
III		Physics Practical -II*	3	3	4	40	60	100
III	Allied III	Maths - II (or)	5	3	4	25	75	100
III	Allied II	Chemistry - II	2	3	2	25	75	100
		Maths - III (or)	2	3	2	25	75	100
		Chemistry Practical I*	2	3	2	40	60	100
	Practical I							
IV	NMEC - I	Non Major elective course I	2	3	2	25	75	100

* - Continued from III semester and Examinations will be at the end of IV semester



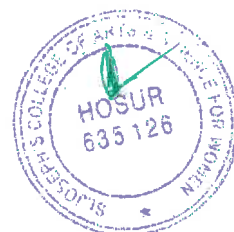
Part	Paper Code	Subject Title	Hours /Week	Exam Hrs.	Credits	University Examination			
						Internal(25%)	External(75%)	Total	
SEMESTER III									
I	Core III	Tamil or any other Language –III	6	3	3	25	75	100	
II		English – III	6	3	3	25	75	100	
III		Physics	5	3	5	25	75	100	
III		Core	Physics Practical	3	3	-	-	-	
III		Practical II*							
III	Allied I	Maths - I (or) Chemistry - I	5	3	4	25	75	100	
III	Allied II	Maths – III	2	3	-	-	-	-	
	Allied	(or)	2	3	-	-	-	-	
	Practical I	Chemistry Practical I*							
IV	SBEC - II		2	3	2	25	75	100	
IV	NMEC - I	Skill based Elective Course II	2	3	2	-	-	-	
		Non Major elective course I							
* - Examinations will be at the end of IV semester									
SEMESTER IV									
I	Core IV	Tamil or any other Language –IV	6	3	3	25	75	100	
II		English – IV	6	3	3	25	75	100	
III		Physics	5	3	5	25	75	100	
III		Core	Physics Practical -II*	3	3	4	40	60	100
III		Practical II							
III	Allied III	Maths - II (or) Chemistry - II	5	3	4	25	75	100	
III	Allied II	Maths - III (or)	2	3	2	25	75	100	
	Allied	Chemistry Practical I*	2	3	2	40	60	100	
	Practical I								
IV	NMEC - I	Non Major elective course I	2	3	2	25	75	100	

* - Continued from III semester and Examinations will be at the end of IV semester



COURSE OF STUDY AND SCHEME OF EXAMINATION

Part	Paper Code	Subject Title	Hours /Week	Credits	University Examination			Exam Hrs.
					Internal (25%)	External (75%)	Total	
SEMESTER I								
I		Tamil I	6	3	25	75	100	3
II		English I	6	3	25	75	100	3
III		Core I	5	5	25	75	100	3
III		Core Practical I	3	-	-	-	-	
III		Allied I	4	4	25	75	100	3
III		Allied Practical I	3	-	-	-	-	
IV		Value Education	2	2	25	75	100	3
SEMESTER II								
I		Tamil II	6	3	25	75	100	3
II		English II	6	3	25	75	100	3
III		Core II	5	5	25	75	100	3
III		Core Practical I	2	4	40	60	100	3
III		Core Practical II	3	3	40	60	100	3
III		Allied II	4	4	25	75	100	3
III		Allied Practical I	3	2	40	60	100	3
IV		Environmental Studies	1	2	25	75	100	3

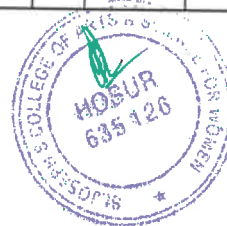


B.Sc. NUTRITION AND DIETETICS

Part	Paper Code	Subject Title	Hours /Week	Credits	University Examination			Exam Hrs.
					Internal (25%)	External (75%)	Total	
SEMESTER III								
I		Tamil III	6	3	25	75	100	3
II		English III	6	3	25	75	100	3
III		Core III	5	5	25	75	100	3
III		Core Practical III	2	-	-	-	-	-
III		Allied III	4	3	25	75	100	3
III		Allied Practical II	3	-	-	-	-	-
IV		SBEC I	2	2	25	75	100	3
IV		NMEC I	2	2	25	75	100	3
SEMESTER IV								
I		Tamil IV	6	3	25	75	100	3
II		English IV	6	3	25	75	100	3
III		Core IV	5	5	25	75	100	3
III		Core Practical III	2	3	40	60	100	3
III		Allied IV	4	4	25	75	100	3
III		Allied Practical II	3	2	40	60	100	3
IV		SBEC II	2	2	25	75	100	3
IV		NMEC II	2	2	25	75	100	3



Part	Paper Code	Subject Title	Hours /Week	Credits	University Examination			Exam Hrs.
					Internal (25%)	External (75%)	Total	
SEMESTER V								
I		Core V	5	5	25	75	100	3
II		Core VI	6	5	25	75	100	3
III		Elective course I	6	5	25	75	100	3
III		Core Practical IV	3	-	-	-	-	-
III		Core Practical V	3	-	-	-	-	-
III		Elective II	5	5	25	75	100	3
IV		SBEC III	2	2	25	75	100	3
SEMESTER VI								
III		Core VII	6	5	25	75	100	3
III		Core Practical IV	3	5	40	60	100	3
III		Core Practical V	3	5	40	60	100	3
III		Core Practical III	2	3	40	60	100	3
III		Core VIII	6	5	25	75	100	3
III		Elective Paper III	5	5	25	75	100	3
IV		SBEC IV	2	2	25	75	100	3
IV		SBEC V	2	2	25	75	100	3
IV		SBECPI I	3	2	400	60	100	3
		Extension Activities	-	1	-	-	-	-
		Total		140	1135	2865	4000	



B.Sc. NUTRITION AND DIETETICS

LIST OF CORE PAPERS

- I Human Physiology
- II Food Science
- III Nutritional Biochemistry
- IV Principles of Human Nutrition
- V Nutrition in Life Cycle
- VI Dietetics and Counseling
- VII Food Microbiology
- VIII Advanced Dietetics

LIST OF PRACTICALS

- I Human Physiology
- II Food Science
- III Clinical Nutrition and Food Analysis
- IV Nutrition in Life Cycle and Dietetics
- V Assessment of Food Quality

Students have to choose either SET-I or SET-II for their Elective Courses and Skill Based Elective Courses. Papers from both the sets cannot be mingled. Those students who have selected SET-I for Elective Courses, will have to select SET-I for Skill Based Elective Courses also. Those students, who have selected SET-II for Elective Courses, will have to select SET-II for Skill Based Elective Courses also.

SET-I

LIST OF ELECTIVE COURSES FOR SET-I

- I Quantity Food Service and Physical Facilities
- II Food Product Development and Quality Control
- III Institutional Project

LIST OF SKILL BASED ELECTIVE COURSES (SBEC) FOR SET-I

- I Food Processing
- II Food Packaging
- III Bakery Science
- IV Sanitation and Hygiene in Food Industries
- V Entrepreneurship Development
- VI Food Preservation and Bakery (Practical)



SET-II

LIST OF ELECTIVE COURSES FOR SET- II

- I Nutraceuticals
- II Nutrition for Fitness and Sports
- III Institutional Project

LIST OF SKILL BASED ELECTIVE COURSES (SBEC) FOR SET-II

- I Food Processing
- II Food Chemistry
- III Bakery Science
- IV Food Biotechnology
- V Public Health Nutrition
- VI Food Preservation and Bakery (Practical)

Allied Courses for B.Sc. Nutrition and Dietetics

- I Year - Allied Chemistry
- II Year - Allied Computer Science

Eligibility:

Pass in higher secondary examination conducted by the Board of higher secondary examinations, Tamil Nadu or any other equivalent examination with Nutrition or Dietetics or Home Science or Chemistry or Biology as one of the subjects.

LIST OF NON MAJOR ELECTIVE COURSES (NMEC) OFFERED BY THE BOARD OF NUTRITION AND DIETETICS/ HOME SCIENCE TO OTHER MAJOR STUDENTS

- I Basic Food Science
- II Basic Nutrition

LIST OF ALLIED COURSES OFFERED BY THE BOARD OF NUTRITION AND DIETETICS/ HOME SCIENCE TO STUDENTS STUDYING DEGREE IN LIFE SCIENCES

SET-I

Food Science-I
Food Science-II
Food Analysis Practical

SET-II

Human Nutrition-I
Human Nutrition-II
Clinical Nutrition Practical



**Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework (LOCF) Guideline
Based Credit and Hours Distribution System
for all UG courses including Lab Hours**

First Year – Semester-I

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
Part-4	Skill Enhancement Course SEC-1	2	2
	Foundation Course	2	2
		23	30

Semester-II

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
		23	30

Second Year – Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	-	1
		22	30

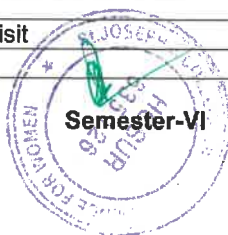
Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	13
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
		25	30

**Third Year
Semester-V**

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
		26	30

Semester-VI



COURSE OF STUDY AND SCHEME OF EXAMINATION

SEMESTER I								
Part	Study Component	Course Title	Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
I	Language	Tamil I or other language	6	3	25	75	100	3
II	Language	English I- Communicative English	6	3	25	75	100	3
III	Core I	Human Physiology	6	3	25	75	100	5
III	Core Practical I	Human Physiology	3	-	-	-	-	-
III	Allied I	Chemistry I	4	3	25	75	100	4
III	Allied Practical I	Chemistry	3	-	-	-	-	-
IV	Add-on course	Professional English-I	6	3	25	75	100	4
IV	-	Value Education	2	3	25	75	100	-
		TOTAL	36		150	450	600	19



SEMESTER II								
Part	Study Component	Course Title	Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
I	Language	Tamil II or other language	6	3	25	75	100	3
II	Language	English II- Communicative English	6	3	25	75	100	3
III	Core II	Food Science	6	3	25	75	100	5
III	Core Practical II	Food Science	3	3	40	60	100	3
III	Allied I	Chemistry II	4	3	25	75	100	4
III	Allied Practical I	Chemistry	3	3	40	60	100	2
III	Core Practical I	Human Physiology	-	3	40	60	100	3
IV	Add-on course	Professional English-II	6	3	25	75	100	4
IV	-	Environmental Studies	2	3	25	75	100	-
TOTAL			36		270	630	900	27



SEMESTER III								
Part	Study Component	Course Title	Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
I	Language	Tamil III or other language	6	3	25	75	100	3
II	Language	English III- Communicative English	6	3	25	75	100	3
III	Core III	Nutritional Biochemistry	4	3	25	75	100	4
III	Core Practical III	Nutritional Biochemistry	3	-	-	-	-	-
III	Allied II	General Home Science I	4	3	25	75	100	4
III	Allied Practical II	General Home Science	3	-	-	-	-	-
IV	SBEC I	Food preservation and processing	2	3	25	75	100	3
IV	NMEC I	Other Major	2	3	25	75	100	3
TOTAL			30		150	450	600	20



SEMESTER IV								
Part	Study Component	Course Title	Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
I	Language	Tamil IV or other language	6	3	25	75	100	3
II	Language	English IV- Communicative English	6	3	25	75	100	3
III	Core IV	Principle of Human Nutrition	4	3	25	75	100	4
III	Core Practical III	Nutritional Biochemistry	-	3	40	60	100	3
III	Core Practical IV	Food Analysis and Quality Control	3	3	40	60	100	3
III	Allied II	General Home Science II	4	3	25	75	100	4
III	Allied Practical II	General Home Science	3	3	40	60	100	2
IV	SBEC II	Food Standard and Quality Control	2	3	25	75	100	3
IV	NMEC II	Other Major	2	3	25	75	100	3
TOTAL			30		270	630	900	28



SEMESTER V								
Part	Study Component	Course Title	Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
III	Core V	Nutrition in Life Cycle	5	3	25	75	100	5
III	Core VI	Advanced Dietetics	5	3	25	75	100	5
III	Core Practical V	Nutrition in Life Cycle	3	-	-	-	-	-
III	Elective I	Public Health Nutrition	4	3	25	75	100	4
III	Elective II	Basic in Research Methodology	4	3	25	75	100	4
IV	SBEC III	Bakery Science	3	3	25	75	100	3
IV	SBEC IV Practical I	Food Preservation and Bakery	3	-	-	-	-	-
III	Core VII	Institutional Training	3	-	-	-	-	-
		TOTAL	30		125	375	500	21

SEMESTER VI								
Part	Study Component	Course Title	Hrs/ week	Exam				Credit
				Dur. Hrs	CIA	Uni. exam	Total	
III	Core VII	Institutional Training	3	3	40	60	100	4
III	Core VIII	Food Microbiology	6	3	25	75	100	5
III	Core IX	Quantity Food Service and Physical Facilities	6	3	25	75	100	5
III	Core Practical V	Nutrition in Life Cycle	-	3	40	60	100	3
III	Core Practical VI	Dietetics	3	3	40	60	100	3
III	Elective III	Nutrition for Sports and Fitness	4	3	25	75	100	4
IV	SBEC IV Practical I	Food Preservation and Bakery	-	3	40	60	100	3
IV	SBEC V	Diet Counselling	4	3	25	75	100	3
IV	SBEC VI	Entrepreneurship Development	4	3	25	75	100	3
V	Extension Activities/NSS/NCC/YRC/OTHERS							
		TOTAL	30		285	615	900	33
		OVER ALL TOTAL					4400	148



**Choice Based Credit System (CBCS), Learning Outcomes Based Curriculum Framework
(LOCF) Guideline Based Credit and Hours Distribution System
for all UG courses including Lab Hours**

First Year – Semester-I

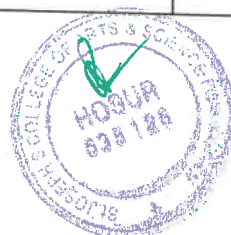
Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
Part-4	Skill Enhancement Course SEC-1	2	2
	Foundation Course	2	2
Total	Total	23	30

Semester-II

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
Total	Total	23	30

Second Year – Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	-	1
Total		22	30



Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	13
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
Total		25	30

Third Year Semester-V

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
Total		26	30

Semester-VI

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based & LAB	18	28
Part-4	Extension Activity	1	-
	Professional Competency Skill	2	2
Total		21	30



Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	1	22
Part V	-	-	-	-	-	2	2
Total	23	23	22	25	26	21	140

***Part I, II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree.**

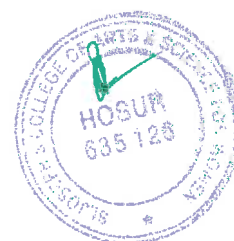


Illustration for B.C.A..Curriculum Design 1st Year

Semester-I

Part	Paper Code	List of Courses	Credit	Hours perweek (L/T/P)
Part-I		Language -Tamil	3	6
Part-II		English	3	6
Part-III	23UCACC01	CC1–Python Programming	5	5
	23UCACCP01	CC2-Practical: Python Programming Lab	3	3
		ElectiveCourse - EC1 (Generic/Discipline Specific) – Choose from Annexure–I	5	6
Part-IV		Skill Enhancement Course- SEC1 (Non Major Elective)	2	2
		FoundationCourseFC– Structured ProgramminginC	2	2
Total			23	30

Semester-II

Part	Paper Code	List of Courses	Credit	Hours perweek (L/T/P)
Part-I		Language -Tamil	3	6
Part-II		English	3	6
Part-III	23UCACC02	CC3–Object Oriented Programming using C++	5	5
	23UCACCP02	CC4 -Practical:C++ProgrammingLab	3	3
		ElectiveCourse -EC2 (Generic/ Discipline Specific)-Choose fromAnnexure-I	5	6
Part-IV		Skill Enhancement Course- SEC2 (Non Major Elective)	2	2
		SkillEnhancement Course–SEC3 Choose from Annexure-II	2	2
Total			23	30



Second Year

Semester-III

Part	Paper Code	List of Courses	Credit	Hours per week (L/T/P)
Part-I		Language -Tamil	3	6
Part-II		English	3	6
Part-III	23UCACC03	CC5-DataStructuresandAlgorithms	5	5
	23UCACCP03	CC6-Practical: Data Structures and Algorithms using C++ Lab	3	3
		Elective Course -EC3 (Generic/ Discipline Specific)-Choose fromAnnexure-I	5	6
Part-IV		Skill Enhancement Course-SEC4 ChoosefromAnnexure-II	1	1
		Skill Enhancement Course-SEC5- ChoosefromAnnexure-II	2	2
		EnvironmentalStudies	-	1
Total			22	30

Semester-IV

Part	Paper Code	ListofCourses	Credit	Hours per week (L/T/P)
Part-I		Language -Tamil	3	6
Part-II		English	3	6
Part-III	23UCACC04	CC7-ProgramminginJava	4	4
	23UCACCP04	CC8 -Practical:ProgramminginJava Lab	3	3
		ElectiveCourse-EC4 (Generic/Discipline Specific)-ChoosefromAnnexure-I	6	6
Part-IV		Skill Enhancement Course-SEC6 ChoosefromAnnexure-II	2	2
		Skill Enhancement Course-SEC7 ChoosefromAnnexure-II	2	2
		EnvironmentalStudies	2	1
Total			25	30



Third
YearSemester-V

Part	Paper Code	ListofCourses	Credit	Hours perweek (L/T/P)
Part-III	23UCACC05	CC9–OperatingSystem	4	5
	23UCACC06	CC10-ASP.NetProgramming	4	5
	23UCACCP05	CC11-Practical:ASP.NetProgrammingLab	4	5
		ElectiveCourse–EC5(Discipline Specific)– ChoosefromAnnexure-I	3	4
		ElectiveCourse–EC6(Discipline Specific)– ChoosefromAnnexure-I	3	4
	23UCACCPRI	CC12-Project withVivavoce	4	5
Part-IV		ValueEducation	2	2
		Internship/IndustrialTraining (Summer vacationattheend of IVsemesteractivity)	2	-
Total			26	30

Semester-VI

Part	Paper Code	ListofCourses	Credit	Hours perweek (L/T/P)
Part-III	23UCACC07	CC13-ComputerNetworks	4	6
	23UCACC08	CC14–DataAnalyticsusing R Programming	4	6
	23UCACCP06	CC15- Practical:RProgrammingLab	4	6
		ElectiveCourse–EC7(DisciplineSpecific) ChoosefromAnnexure-I	3	5
		ElectiveCourse–EC8(DisciplineSpecific) ChoosefromAnnexure-I	3	5
Part-IV		Skill Enhancement Course - SEC8 Choose from Annexure II	2	2
Part-V		ExtensionActivity	1	-
Total			21	30

TotalCredits: 140

SUGGESTED CORE COMPONENTS

S.No	Paper Code	Paper Title
1	23UCACC09	Microprocessor and Microcontroller
2	23UCACCP07	Microprocessor and Microcontroller Lab
3	23UCACC10	RDBMS with PL/SQL
4	23UCACCP08	PL/SQL Lab
5	23UCACC11	Software Engineering
6	23UCACC12	Machine Learning Techniques
7	23UCACCP09	Machine Learning Lab
8	23UCACC13	Network Security
9	23UCACC14	Data Mining and Warehousing
10	23UCACC15	Mobile Application Development
11	23UCACCP10	Mobile Application Development Lab
12	23UCACC16	Introduction to Data Science and more..

Annexure - I

Elective Course (EC1- EC8) (Generic / Discipline Specific)

Generic Specific

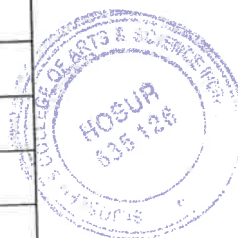
S.No	Paper Title
1	Mathematics-I
2	Mathematics-II
3	Mathematics Practical
4	Discrete Mathematics-I
5	Discrete Mathematics-II
6	Numerical Methods
7	Optimization Techniques
8	Introduction to Linear Algebra
9	Graph Theory and its Application
10	Numerical Methods-I
11	Numerical Methods-II



12	Statistical Methods and its Application-I
13	Statistical Methods and its Application-II
14	Statistical Practical
15	Physics-I
16	Physics Practical-I
17	Physics-II
18	Physics Practical-II
19	Digital Logic Fundamentals
20	Nano Technology
21	Resource Management Techniques and more
22	Financial Accounting
23	Cost and Management Accounting

Discipline Specific

S.No	Paper Code	Paper Title
1	23UCADE01	Software Metrics
2	23UCADE02	Natural Language Processing
3	23UCADE03	Analytics for Service Industry
4	23UCADE04	Cryptography
5	23UCADE05	Database Management System
6	23UCADE06	Big Data Analytics
7	23UCADE07	IOT and its Applications
8	23UCADE08	Software Project Management
9	23UCADE09	Image Processing
10	23UCADE10	Information Security
11	23UCADE11	Human Computer Interaction
12	23UCADE12	Fuzzy Logic
13	23UCADE13	Artificial Intelligence
14	23UCADE14	Mobile Adhoc Network
15	23UCADE15	Computational Intelligence



16	23UCADE16	Grid Computing
17	23UCADE17	Cloud Computing
18	23UCADE18	Artificial Neural Network
19	23UCADE19	Agile Project Management and more..

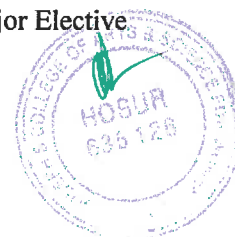
[Pl.Note:In Semester-VI-For EC7and EC8 subjects Instructional hours may be used as:5per cycle]

Annexure-II

Skill Enhancement Course (SEC1-SEC8)

S.No	Paper Code	Paper Title
1	23UCASE01	Fundamentals of Information Technology
2	23UCASE02	Introduction to HTML
3	23UCASE03	Web Designing
4	23UCASE04	PHP Programming
5	23UCASE05	Software Testing
6	23UCASE06	Problem Solving Techniques
7	23UCASE07	Office Automation
8	23UCASE08	Quantitative Aptitude
9	23UCASE09	Open Source Software Technologies
10	23UCASE10	Multimedia Systems
11	23UCASE11	Advanced Excel
12	23UCASE12	Biometrics
13	23UCASE13	Cyber Forensics
14	23UCASE14	Pattern Recognition
15	23UCASE15	Enterprise Resource Planning
16	23UCASE16	Robotics and Applications
17	23UCASE17	Simulation and Modelling
18	23UCASE18	Organization Behavior and more..
19	23UCASE19	Understanding Internet

Note: For Semester I & II [if other department select our paper as Non Major Elective choose from the above Skill Enhancement Course]



**Choice Based Credit System (CBCS),
Learning Outcomes Based Curriculum Framework (LOCF) Guideline Based Credit and Hours
Distribution System for all UG courses including Lab Hours**

**First Year
Semester-I**

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
Part-4	Skill Enhancement Course SEC-1	2	2
	Foundation Course	2	2
Total		23	30

Semester-II

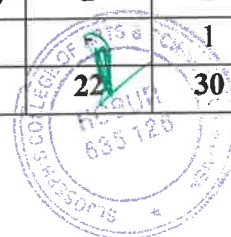
Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
Total		23	30

Second Year

Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	1	1
Total		22	30

Semester-IV



Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	13
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
Total		25	30

Third Year

Semester-V

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
Total		26	30

Semester-VI

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based & LAB	18	28
Part-4	Extension Activity	1	-
	Professional Competency Skill	2	2
Total		21	30



Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	1	22
Part V	-	-	-	-	-	2	2
Total	23	23	22	25	26	21	140

*Part I, II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree.



Illustration for B.Sc. Computer Science Curriculum Design

First Year

Semester-I

Part	Paper Code	List of Courses	Credit	Hours per week (L/T/P)
Part-I		Language – Tamil	3	6
Part-II		English	3	6
Part-III	23UCSCC01	CC1 - Python Programming	5	5
	23UCSCCP01	CC2 - Practical : Python Programming	3	3
		Elective Course -EC1 (Generic / Discipline Specific) –Choose from Annexure I	5	6
Part-IV		Skill Enhancement Course- SEC1 (Non Major Elective)	2	2
		Foundation Course FC - Problem Solving Techniques	2	2
Total			23	30

Semester-II

Part	Paper Code	List of Courses	Credit	Hours Per week (L/T/P)
Part-I		Language -Tamil	3	6
Part-II		English	3	6
Part-III	23UCSCC02	CC3 - Data Structure and Algorithms	5	5
	23UCSCCP02	CC4 - Practical: Data Structure and Algorithms Lab	3	3
		Elective Course - EC2 (Generic / Discipline Specific) –Choose from Annexure I	5	6
Part-IV		Skill Enhancement Course -SEC2 (Non Major Elective)	2	2
		Skill Enhancement Course - SEC3 Choose from Annexure II	2	2
Total			23	30



Second Year**Semester-III**

Part	Paper Code	List of Courses	Credit	Hours Per week (L/T/P)
Part-I		Language - Tamil	3	6
Part-II		English	3	6
Part-III	23UCSCC03	CC5- Microprocessor and Microcontroller	5	5
	23UCSCCP03	CC6 - Practical: Microprocessor and Microcontroller Lab	3	3
		Elective Course- EC3 (Generic / Discipline Specific) -Choose from Annexure I	5	6
Part-IV		Skill Enhancement Course -SEC4 Choose from Annexure II	1	1
		Skill Enhancement Course -SEC5 Choose from Annexure II	2	2
		Environmental Studies	-	1
Total			22	30

Semester-IV

Part	Paper Code	List of Courses	Credit	Hours Per week (L/T/P)
Part-I		Language - Tamil	3	6
Part-II		English	3	6
Part-III	23UCSCC04	CC7 - Java Programming	4	4
	23UCSCCP04	CC8 - Practical: Java Programming Lab	3	3
		Elective Course - EC4 (Generic / Discipline Specific) Choose from Annexure I	6	6
Part-IV		Skill Enhancement Course - SEC6 Choose from Annexure II	2	2
		Skill Enhancement Course - SEC7 Choose from Annexure II	2	2
		Environmental Studies	2	1
Total			25	30



Third Year

Semester-V

Part	Paper Code	List of Courses	Credit	Hours Per week (L/T/P)
Part-III	23UCSCC05	CC9 - Software Engineering	4	5
	23UCSCC06	CC10 - Database Management System	4	5
	23UCSCCP05	CC11 - Practical: Database Management System Lab	4	5
		Elective Course - EC5 (Discipline Specific) Choose from Annexure I	3	4
		Elective Course – EC6 (Discipline Specific) Choose from Annexure I	3	4
	23UCSCCPR1	CC12 - Project with Viva voce	4	5
Part-IV		Value Education	2	2
		Internship / Industrial Training (Summer vacation at the end of IV semester activity)	2	
Total			26	30

Semester-VI

Part	Paper Code	List of Courses	Credit	Hours per week (L/T/P)
Part-III	23UCSCC07	CC13 - Computer Networks	4	6
	23UCSCC08	CC14 - .NET Programming	4	6
	23UCSCCP06	CC15 - Practical: .NET Programming Lab	4	6
		Elective Course – EC7 (Discipline Specific) Choose from Annexure I	3	5
		Elective Course – EC8 (Discipline Specific) Choose from Annexure I	3	5
Part-IV		Skill Enhancement Course - SEC8 Choose from Annexure II	2	2
Part -V		Extension Activity	1	
Total			21	30
Total Credits: 140				

SUGGESTED CORE COMPONENTS

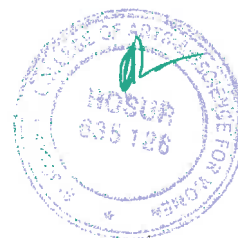
S.No	Paper Code	Paper Title
1	23UCSCC09	Programming in C
2	23UCSCCP07	Programming in C Lab
3	23UCSCC10	Object oriented Programming using C++
4	23UCSCCP08	Object oriented Programming using C++ Lab
5	23UCSCC11	Mobile Application Development
6	23UCSCCP09	Mobile Application Development Lab
7	23UCSCC12	Data Analytics using R
8	23UCSCCP10	Data Analytics using RLab
9	23UCSCC13	Machine Learning
10	23UCSCCP11	Machine Learning Lab
11	23UCSCC14	Data Mining and Warehousing
12	23UCSCC15	Software Metrics
13	23UCSCC16	Network Security

Annexure – I

Elective Course (EC1- EC8) (Generic / Discipline Specific)

Generic Specific

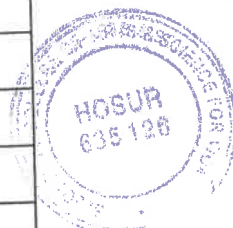
S.No	Paper Title
1	Mathematics-I
2	Mathematics-II
3	Mathematics Practical
4	Discrete Mathematics-I
5	Discrete Mathematics-II
6	Numerical Methods
7	Optimization Techniques
8	Introduction to Linear Algebra
9	Graph Theory and its Application



10	Numerical Methods-I
11	Numerical Methods-II
12	Statistical Methods and its Application-I
13	Statistical Methods and its Application-II
14	Statistical Practical
15	Physics-I
16	Physics Practical-I
17	Physics-II
18	Physics Practical-II
19	Digital Logic Fundamentals
20	Nano Technology
21	Resource Management Techniques and more

Discipline Specific

S.No	Paper Code	Paper Title
1	23UCSDE01	Natural Language Processing
2	23UCSDE02	Analytics for Service Industry
3	23UCSDE03	Cryptography
4	23UCSDE04	Big Data Analytics
5	23UCSDE05	IOT and its Applications
6	23UCSDE06	Software Project Management
7	23UCSDE07	Image Processing
8	23UCSDE08	Human Computer Interaction
9	23UCSDE09	Fuzzy Logic
10	23UCSDE10	Artificial Intelligence
11	23UCSDE11	Robotics and its Applications
12	23UCSDE12	Computational Intelligence
13	23UCSDE13	Grid Computing
14	23UCSDE14	Cloud Computing
15	23UCSDE15	Artificial Neural Network



Computer Science Department Generic Specific for other Departments
(B.Sc.,Electronics and Communication,B.Sc.,Mathematics(CA),B.Sc.,Mathematics and Etc..)

S.No	Paper Code	Paper Title
1	23UCSGE01	Programming in C
2	23UCSGE02	Programming in Visual Basic
3	23UCSGE03	Programming in C & Visual Basic Practical
4	23UCSGE04	Web Designing With Html
5	23UCSGE05	Programming With Python
6	23UCSGE06	Paper-I :C Programming Language and Practical
7	23UCSGE07	Paper-II :C Programming Language and Practical



16	23UCSDE16	Introduction to Data Science
17	23UCSDE17	Agile Project Management
18	23UCSDE18	Virtual Reality and more

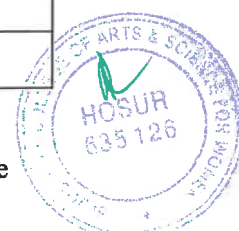
[Pl. Note: In Semester-VI - For EC7 and EC8 subjects
Instructional hours may be used as: 5 per cycle]

Annexure II

Skill Enhancement Course (SEC1-SEC8)

S.No	Paper Code	Paper Title
1	23UCSSE01	Fundamentals of Information Technology
2	23UCSSE02	Introduction to HTML
3	23UCSSE03	Web Designing
4	23UCSSE04	PHP Programming
5	23UCSSE05	Software Testing
6	23UCSSE06	Understanding Internet
7	23UCSSE07	Office Automation
8	23UCSSE08	Quantitative Aptitude
9	23UCSSE09	Multimedia Systems
10	23UCSSE10	Advanced Excel
11	23UCSSE11	Biometrics
12	23UCSSE12	Cyber Forensics
13	23UCSSE13	Pattern Recognition
14	23UCSSE14	Enterprise Resource Planning
15	23UCSSE15	Simulation and Modelling
16	23UCSSE16	Organization Behavior and more

Note: For Semester I & II [if other department select our paper as Non Major Elective
choose from the above Skill Enhancement Course]



**Choice Based Credit System (CBCS),
Learning Outcomes Based Curriculum Framework (LOCF)
Guideline Based Credit and Hours Distribution System for all
UG courses including Lab Hours**

First Year – Semester-I

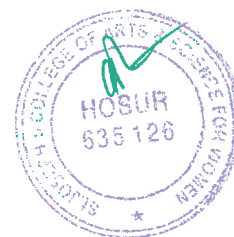
Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses [in Total]	13	14
Part-4	Skill Enhancement Course SEC-1	2	2
	Foundation Course	2	2
		23	30

Semester-II

Part	List of Courses	Credit	No. of Hours
Part-1	Language – Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-2	2	2
	Skill Enhancement Course -SEC-3 (Discipline / Subject Specific)	2	2
		23	30

Second Year – Semester-III

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	14
Part-4	Skill Enhancement Course -SEC-4 (Entrepreneurial Based)	1	1
	Skill Enhancement Course -SEC-5 (Discipline / Subject Specific)	2	2
	E.V.S	-	1
		22	30



Semester-IV

Part	List of Courses	Credit	No. of Hours
Part-1	Language - Tamil	3	6
Part-2	English	3	6
Part-3	Core Courses & Elective Courses including laboratory [in Total]	13	13
Part-4	Skill Enhancement Course -SEC-6 (Discipline / Subject Specific)	2	2
	Skill Enhancement Course -SEC-7 (Discipline / Subject Specific)	2	2
	E.V.S	2	1
		25	30

Third Year Semester-V

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based	22	26
Part-4	Value Education	2	2
	Internship / Industrial Visit / Field Visit	2	2
		26	30

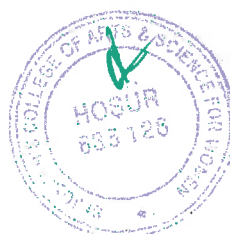
Semester-VI

Part	List of Courses	Credit	No. of Hours
Part-3	Core Courses including Project / Elective Based & LAB	18	28
Part-4	Extension Activity	1	-
	Professional Competency Skill	2	2
		21	30

Consolidated Semester wise and Component wise Credit distribution

Parts	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
Part I	3	3	3	3	-	-	12
Part II	3	3	3	3	-	-	12
Part III	13	13	13	13	22	18	92
Part IV	4	4	3	6	4	1	22
Part V	-	-	-	-	-	2	2
Total	23	23	22	25	26	21	140

*Part I, II, and Part III components will be separately taken into account for CGPA calculation and classification for the under graduate programme and the other components. IV, V have to be completed during the duration of the programme as per the norms, to be eligible for obtaining the UG degree.



B.Sc. DATA SCIENCE

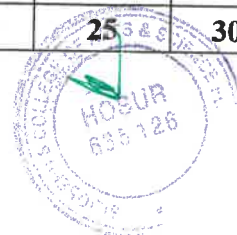
Semester I				
Component	Course code	List of courses	Credits	No. of Hrs
Part I		Language – Tamil	3	6
Part II		English	3	6
Part-III	23UDSCC01	CCI-Python Programming	4	5
	23UDSCCP01	CCII-Practical: Python Lab	3	3
		Elective Course -EC1 (Generic / Discipline Specific) –Choose from Annexure I	6	6
Part- IV		Skill Enhancement Course- SEC1 (Non Major Elective)	2	2
		Foundation Course FC – Problem Solving Techniques	2	2
TOTAL			23	30

Semester II				
Component	Course code	List of courses	Credits	No. of Hrs
Part I		Language – Tamil	3	6
Part II		English	3	6
Part III	23UDSCC02	CC3-Data Structures and Algorithms	4	5
	23UDSCCP02	CC4-Practical:Data Structures and Algorithms Lab	3	3
		Elective Course - EC2 (Generic / Discipline Specific) –Choose from Annexure I	6	6
Part IV		Skill Enhancement Course -SEC2 (Non Major Elective)	2	2
		Skill Enhancement Course - SEC3 Choose from Annexure II	2	2
TOTAL			23	30



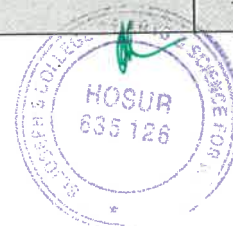
Semester – III				
Component	Course code	List of courses	Credits	No. of Hrs
Part I		Language – Tamil	3	6
Part II		English	3	6
Part-III	23UDSCC03	CC5-Data Science	4	5
	23UDSCCP03	CC6-Practical : Data Science Lab	3	3
		Elective Course- EC3 (Generic / Discipline Specific) -Choose from Annexure I	6	6
Part-IV		Skill Enhancement Course -SEC4 Choose from Annexure II	1	1
		Skill Enhancement Course -SEC5 Choose from Annexure II	2	2
		Environmental Studies	-	1
TOTAL			22	30

Semester – IV				
Component	Course code	List of courses	Credits	No. of Hrs
Part I		Language – Tamil	3	6
Part II		English	3	6
Part III	23UDSCC04	CC7-Object Oriented Programming with Java	4	4
	23UDSCCP04	CC8-Practical: Object Oriented Programming with Java Lab	3	3
		Elective Course - EC4 (Generic / Discipline Specific) Choose from Annexure I	6	6
Part IV		Skill Enhancement Course - SEC6 Choose from Annexure II	2	2
		Skill Enhancement Course - SEC7 Choose from Annexure II	2	2
		Environmental Studies	2	1
TOTAL			25	30



Semester – V				
Component	Course code	List of courses	Credits	No. of Hrs
Part-III	23UDSCC05	CC9-Relational Database Management System	4	5
	23UDSCCP05	CC10-Practical:RDBMS Lab using ORACLE	4	5
	23UDSCC06	CC11-Machine Learning	4	5
		Elective Course - EC5 (Discipline Specific) Choose from Annexure I	3	4
		Elective Course – EC6 (Discipline Specific) Choose from Annexure I	3	4
	23UDSCCPR1	CC12 - Project with Viva voce	4	5
Part-IV		Value Education	2	2
		Internship / Industrial Training (Summer vacation at the end of IV semester activity)	2	
TOTAL			26	30

SEMESTER VI				
Component	Course code	List of courses	Credits	No. of Hrs
Part III	23UDSCC07	CC13-IoT and Cloud Technologies	4	6
	23UDSCCP06	CC14-Practical: IOT and Cloud Technologies Lab	4	6
	23UDSCC08	CC15-Artificial Intelligence	4	6
		Elective Course – EC7 (Discipline Specific) Choose from Annexure I	3	5
		Elective Course – EC8 (Discipline Specific) Choose from Annexure I	3	5
Part IV		Skill Enhancement Course - SEC8 Choose from Annexure II	2	2
		Extension Activity	1	
TOTAL			21	30
TOTAL CREDITS				140



SUGGESTED CORE COMPONENTS

S.No	Paper Code	Paper Title
1	23UDSCC09	Programming in C
2	23UDSCCP07	C Programming Lab
3	23UDSCC10	Object Oriented Programming Using C++
4	23UDSCCP08	C++ Programming Lab
5	23UDSCC11	Software Metrics
6	23UDSCCP09	Machine Learning Lab
7	23UDSCC12	Mobile Application Development
8	23UDSCCP10	Mobile Application Development Lab
9	23UDSCC13	Software Project Management
10	23UDSCCP11	Software Engineering Lab and more..

ANNEXURE I

Elective Course (EC1- EC8) (Generic / Discipline Specific)

Generic Specific

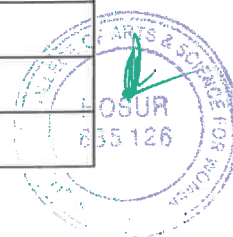
S.No	Paper Title
1	Mathematics-I
2	Mathematics-II
3	Mathematics Practical
4	Discrete Mathematics-I
5	Discrete Mathematics-II
6	Numerical Methods
7	Optimization Techniques
8	Introduction to Linear Algebra
9	Graph Theory and its Application
10	Numerical Methods-I



11	Numerical Methods-II
12	Statistical Methods and its Application-I
13	Statistical Methods and its Application-II
14	Statistical Practical
15	Physics-I
16	Physics Practical-I
17	Physics-II
18	Physics Practical-II
19	Digital Logic Fundamentals
20	Nano Technology
21	Microprocessor & Micro Controller
22	Electronics Science

Discipline Specific

S.No	Paper Code	Paper Title
1	23UDSDE01	Analytics for Service Industry
2	23UDSDE02	Natural Language Processing
3	23UDSDE03	Financial Analytics
4	23UDSDE04	Marketing Analytics
5	23UDSDE05	Data Communication And Computer Networks
6	23UDSDE06	Big Data Analytics
7	23UDSDE07	Computer Networks
8	23UDSDE08	Cryptography
9	23UDSDE09	Operating System
10	23UDSDE10	Artificial Neural Networks
11	23UDSDE11	Software Engineering
12	23UDSDE12	Software quality Assurance
13	23UDSDE13	Organizational behaviour



14	23UDSDE14	Agile Project Management
15	23UDSDE15	Computing Intelligence
16	23UDSDE16	Information Security
17	23UDSDE17	Grid Computing and more..

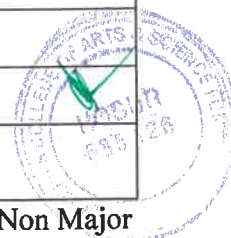
[Pl. Note: In Semester-VI - For EC7 and EC8 subjects
Instructional hours may be used as: 5 per cycle]

ANNEXURE II

Skill Enhancement Course (SEC1-SEC8)

S.No	Paper Code	Paper Title
1	23UDSSE01	Introduction To Html
2	23UDSSE02	Office Automation
3	23UDSSE03	Qualitative Aptitude
4	23UDSSE04	Cyber Forensics
5	23UDSSE05	Multimedia Systems
6	23UDSSE06	Software Testing
7	23UDSSE07	Data Mining And Warehousing
8	23UDSSE08	Bio Metrics
9	23UDSSE09	Enterprise Resource Planning
10	23UDSSE10	Robotics And Applications
11	23UDSSE11	Simulation And Modeling
12	23UDSSE12	Pattern Recognition
13	23UDSSE13	Advanced Excel
14	23UDSSE14	Open Source Software Technologies
15	23UDSSE15	PHP Programming
16	23UDSSE16	Web Technology
17	23UDSSE17	Network Security
18	23UDSSE18	Image Processing And More...

Note: For Semester I & II [if other department select our paper as Non Major
Elective choose from the above Skill Enhancement Course]



vii) **STRUCTURE OF M. Sc (COMPUTER SCIENCE) PROGRAMME**

Course Code	Title of the Course	Credits	Hours		Maximum Marks		
			Theory	Practical	CIA	EA	Total
FIRST SEMESTER							
23PCSC01	Core I:Analysis& Design of Algorithms	5	6		25	75	100
23PCSC02	Core II: Object Oriented Analysis and Design & C++	5	6		25	75	100
23PCSC03	Core III: Python Programming	4	6		25	75	100
23PCSE0_	Elective I	3	4		25	75	100
23PCSCP01	Practical I:Algorithm and OOPS Lab	3		4	40	60	100
23PCSCP02	Practical II:Python Programming Lab	3		4	40	60	100
Total		23	22	8			600
SECOND SEMESTER							
23PCSC04	Core IV: Data Mining and Warehousing	4	5		25	75	100
23PCSC05	Core V: Advanced Operating Systems	4	5		25	75	100
23PCSC06	Core VI: Advanced Java Programming	4	5		25	75	100
23PCSE_	Elective II	3	5		25	75	100
23PCSCP03	Practical III: Data Mining Lab using R	4		4	40	60	100
23PCSCP04	Practical IV: Advanced Java Programing Lab	4		4	40	60	100
23PHR01	Foundation of Fundamentals of Human Rights	1	2		25	75	100
Total		24	22	8			700



THIRD SEMESTER							
23PCSC07	Core VII: Digital Image Processing	5	6		25	75	100
23PCSC08	Core VIII: Cloud Computing	5	5		25	75	100
23PCSC09	Core IX: Network Security and Cryptography	5	5		25	75	100
23PCSC10	Core X: Data Science & Analytics	4	6		25	75	100
23PCSCP05	Practical V: Digital Image Processing Lab using MATLAB	3		4	40	60	100
23PCSCP06	Practical VI: Cloud Computing Lab	2		4	40	60	100
23PCSI01	Internship Industrial Activity	2			40	60	100
Total		26	22	08			700
FOURTH SEMESTER							
23PCSE_	Elective III	3	4		25	75	100
23PCSCP06	Web Application development & hosting Practical	5		5	40	60	100
23PCSCPR01	Project work and Viva-voce	7			50	150	200
23PCSSECP_	Skill Enhancement Course - Professional Competency Skill	2		4	40	60	100
23PCSEX01	Extension Activity	1	-				
Total		18	4	9			500
Grand Total		91					

viii) ELECTIVES LIST

Elective Course-I

- 23PCSE01 Advanced Software Engineering
- 23PCSE02 Multimedia and its applications
- 23PCSE03 Embedded Systems

Elective Course-II

- 23PCSE04 Artificial Intelligence & Machine Learning
- 23PCSE05 Internet of Things
- 23PCSE06 Mobile Computing



23PCSE07 Block Chain Technology

Elective Course–III

23PCSE08 Critical thinking, Design thinking and problem solving

23PCSE09 Web Services

23PCSE10 Robotic process automation for business

Skill Enhancement Course - Professional Competency Skill list (any one)

23PCSSECP01 Data Visualization Lab

23PCSSECP02 Soft Skill Development Lab

ix) EDC-EXTRA DISCIPLINARY COURSE LIST

Students are expected to opt EDC (Non major elective) offered to other departments.

1. Principles of Information Technology
2. Fundamentals of Computers and Communications
3. E-Commerce

x) EXTERNAL ASSESSMENT QUESTION PAPER PATTERN (THEORY)

Time: 3 Hours

Max. Marks: 75

PART- A: 15x1 = 15 marks

Answer all the questions

Three questions from each unit (Multiple Choice Questions)

PART- B: 2x5 = 10 marks

Answer any TWO questions

One question from each unit

PART- C: 5x10 = 50 marks

Answer all the questions

One question from each unit (either or type)

The Passing minimum shall be 50% out of 75 marks (38 marks)

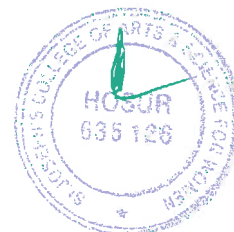
xi) CONTINUOUS INTERNAL ASSESSMENT FOR PRACTICAL

Test1 : 15 Marks

Test2 : 15 Marks

Record: 10 Marks

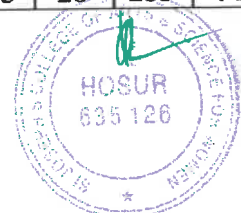
Total : 40 Marks



(Record Note must be compulsorily submitted while attending the Practical Examination and No passing minimum)

COURSE OF STUDY AND SCHEME OF EXAMINATION

Part	Subject Code	Subject Title	Hours		Credits	Marks		
			Lect.	Lab		CIA	EA	Total
SEMESTER I								
I	21UFTA01	Tamil I	6	-	3	25	75	100
II	20UENC01	English I	6	-	3	25	75	100
II	22UCA01	Core I: Problem Solving Through C	6	-	5	25	75	100
III	22UCAP01	Practical I: C Programming	-	3	2	40	60	100
III		Allied I	7	-	4	25	75	100
IV	21UVE01	Value Education	2	-	2	25	75	100
IV	20UPES01	Professional English- Physical Science I	4	-	4	25	75	100
		Total	31	3	23	190	510	700
SEMESTER II								
I	21UFTA02	Tamil II	6	-	3	25	75	100
II	20UENC02	English II	6	-	3	25	75	100
III	22UCA02	Core II : Object Oriented Programming Concepts using C ++	3	-	5	25	75	100
III	22UCAP02	Practical II : C++ Programming Lab	-	3	2	40	60	100
III	22UCA03	Core III: Computer Organization and Architecture	4	-	5	25	75	100
III		Allied II	5	-	4	25	75	100
III		Allied II – Practical		2	2	40	60	100
IV	21UES01	Environmental Studies	1	-	-	25	75	100
IV	20UPES02	Professional English- Physical Science II	4	-	4	25	75	100
		Total	29	5	28	255	645	900



Part	Subject Code	Subject Title	Hours		Credits	Marks		
			Lect.	Lab		CIA	EA	Total
SEMESTER III								
III	21UFTA03	Tamil III	6	-	3	25	75	100
III	22UCA04	Core IV: Data Structure and Algorithms	5	-	5	25	75	100
III	22UCA05	Core V: Relational Database Management Systems	5	-	5	25	75	100
III	22UCAP03	Practical III: SQL and PL/SQL	-	3	2	40	60	100
III		Allied III	7	-	4	25	75	100
III		Allied Practical	-	-	-	-	-	-
III	22UCASP01	SBEC I- Office Automation Lab	-	2	3	40	60	100
IV	NMEC –I	Non –Major Elective – I	2	-	2	25	75	100
	Total		25	5	24	205	495	700
SEMESTER IV								
III	21UFTA04	Tamil IV	6	-	3	25	75	100
III	22UCA06	Core VI : Programming in Java	5	-	5	25	75	100
III	22UCAP04	Practical IV: Java programming	-	3	2	40	60	100
III	22UCA07	Core VII: Computer Network	5	-	4	25	75	100
III		Allied IV	5	-	4	25	75	100
III		Allied –Practical	-	2	2	40	60	100
IV	22UCASP02	SBEC - II : Image Editing Tool	-	2	3	40	60	100
IV	NMEC - II	Non –Major Elective – II	2	-	2	25	75	100
IV	Add-on	Add-on Course Internship Programme	-	-	-	-	-	-
	Total		23	7	25	245	555	800

* Allied Practical Examination will be conducted at the end of even semester.



Part	Subject Code	Subject Title	Hours		Credits	Marks		
			Lect.	Lab		CIA	EA	Total

SEMESTER V

III	22UCA08	Core VIII : Data Mining and Warehousing	5	-	4	25	75	100
III	22UCA09	Core IX : Web Technology	5	-	4	25	75	100
III	22UCAP05	Practical V : Web Technology Lab	-	3	2	40	60	100
III	22UCA10	Core X: Visual Programming	5	-	4	25	75	100
III	22UCAE01/02/03	Elective – I	5	-	4	25	75	100
III	22UCAP06	Practical VI: Programming in VB	-	4	2	40	60	100
IV	22UCASP03	SBEC – III :Mobile Application Development	-	3	3	40	60	100
	Total		20	10	23	220	480	700

SEMESTER VI

III	22UCA11	Core XI : Programming in Python	6	-	5	25	75	100
III	22UCAP07	Practical VII :Python Programming	-	4	3	40	60	100
III	22UCAPR01	Mini Project	-	5	5	40	60	100
III	22UCAE04/05/06	Elective II	6	-	4	25	75	100
III	22UCAE07/08/09	Elective III	6	-	4	25	75	100
IV	22UCAS01	SBEC - IV : Quantitative Aptitude	3	-	3	25	75	100
V	22UEX01	Extension Activity	-	-	1	-	-	-
	Total		21	9	25	180	420	600



ELECTIVE SUBJECTS**Elective – I**

Sem	Part	Subject Code	Subject Title
V	III	22UCAE01	Operating System
		22UCAE02	Management Information System
		22UCAE03	Mobile Computing

Elective – II

Sem	Part	Subject Code	Subject Title
VI	III	22UCAE04	Wireless Network
		22UCAE05	Computer Graphics
		22UCAE06	Software Testing

Elective – III

Sem	Part	Subject Code	Subject Title
VI	III	22UCAE07	E-Commerce Technology
		22UCAE08	Software Engineering
		22UCAE09	Internet of Things



PERIYAR UNIVERSITY
Non Major Elective Course – (NMEC)

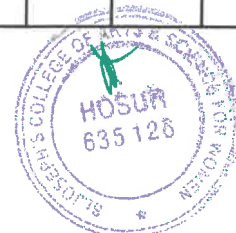
Extra Disciplinary Subjects offered by the Department of Computer Science/BCA

The department can offer any one of the subjects to the other major subject students in each semester.

PART	SEM	SUB CODE	SUBJECT TITLE	Lect. Hours	Credit	MARKS		
						CIA	EA	TOTAL
SEMESTER –III & IV								
IV	III	21UCAN01	NMEC I: Basics of Computers	2	2	25	75	100
		21UCAN02	NMEC I: Computer Applications for Automation	2	2	25	75	100
	IV	21UCAN03	NMEC II: Basics of Internet	2	2	25	75	100
		21UCAN04	NMEC II: Image Editing Tool	2	2	25	75	100

SBEC – Skill Based Elective Courses

Part	Semester	Subject Title	Hours		Credits	Marks		
			Lecture	LAB		CIA	EA	Total
IV	III	SBEC – I : Office Automation Lab	-	2	3	40	60	100
IV	IV	SBEC – II : Image Editing Tool	-	2	3	40	60	100
IV	V	SBEC - III : Mobile Application Development	-	3	3	40	60	100
IV	VI	SBEC-IV : Quantitative Aptitude	3		3	25	75	100



Allied Subjects for any Degree offered by the Department of Computer Applications SYLLABUS - CBCS PATTERN

EFFECTIVE FROM THE ACADEMIC YEAR 2021-2022

All Papers should be handled and valued by Computer Science Department only. For University practical examinations both Internal and External examiners should be appointed from Department of Computer Science / Applications. **(Select any one of the Subject options with Practical)**

FIRST OPTION (Allied Computer Science) First Year / Second Year

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper – I						
	21UCSA01	Fundamental of Computers	7	-	4	25	75	100
	II/IV	Allied Paper – II						
	21UCSA02	Computer Applications in Office	5	-	4	25	75	100
	21UCSAP01	Allied Practical Office Automation	-	2	2	40	60	100

SECOND OPTION (Allied Computer Science) First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper – I						
	21UCSA03	Database Systems	7	-	4	25	75	100
	II/IV	Allied Paper – II						
	21UCSA04	E-Commerce Techniques	5	-	4	25	75	100
	21UCSAP02	Allied Practical HTML Programming	-	2	2	40	60	100

Allied Subjects for Computer Science/Information Science /BCA

SYLLABUS - CBCS PATTERN EFFECTIVE FROM THE ACADEMIC YEAR 2021-2022 FIRST OPTION

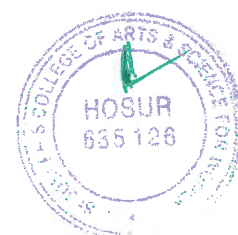
First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper – I Statistical Methods and their Applications I	7	-	4	25	75	100
	II/IV	Allied Paper – II Statistical Methods and their Applications II	5	-	4	25	75	100
		Allied Practical – II Statistical Practical	-	2	2	40	60	100

SECOND OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper –I Principles of Accounting	7	-	4	25	75	100
	II/IV	Allied Paper II Cost and Management Accounting	5	-	4	25	75	100
		Allied Practical Commerce Practical	-	2	2	40	60	100



THIRD OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Mathematics Paper – I	7	-	4	25	75	100
	II/IV	Allied Mathematics Paper – II	5	-	4	25	75	100
		Allied Mathematics Practical	-	2	2	40	69	100

FOURTH OPTION

First Year / Second Year (Select any one of the Subject with Practical)

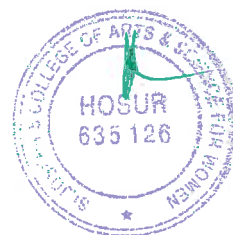
PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Physics Paper –I	7	-	4	25	75	100
	II/IV	Allied Physics Paper II	5	-	4	25	75	100
		Allied Physics Practical	-	2	2	40	60	100



FIFTH OPTION

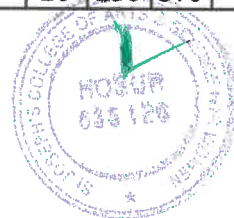
First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Electronics Paper –I	7	-	4	25	75	100
	II/IV	Allied Electronics Paper II	5	-	4	25	75	100
		Allied Electronics Practical	-	2	2	40	60	100



COURSE OF STUDY AND SCHEME OF EXAMINATION

SEM	PART	SUB CODE	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
SEMESTER – I									
I	I	21UFTA01	Tamil I	6	-	3	25	75	100
	II	21UFEN01	English I	6	-	3	25	75	100
	III	21UCS01	Core I: Problem Solving Through C	6	-	5	25	75	100
	III	21UCSP01	Practical I: C Programming	-	3	2	40	60	100
	III		Allied I	7	-	4	25	75	100
	IV	21UVE01	Value Education	2	-	2	25	75	100
	IV		Professional English- Physical Science I	4	-	4	25	75	100
				Total	31	3	23	190	510
SEMESTER – II									
II	I	21UFTA02	Tamil II	6	-	3	25	75	100
	II	21UFEN02	English II	6	-	3	25	75	100
	III	21UCS02	Core II : Data Structure and Algorithms	3	-	5	25	75	100
	III	21UCSP02	Practical II : Data Structure Using C	-	3	2	40	60	100
	III	21UCS03	Core III: Computer Organization and Architecture	4	-	5	25	75	100
	III		Allied II	5	-	4	25	75	100
	III		Allied – Practical	-	2	2	40	60	100
	IV	21UES01	Environmental Studies	1	-	-	25	75	100
	IV		Professional English- Physical Science II	4	-	4	25	75	100
			Total	29	5	28	255	645	900
SEMESTER – III									
III	I	21UFTA03	Tamil – III	6	-	3	25	75	100
	II	21UFEN03	English – III	6	-	3	25	75	100
	III	21UCS04	Core IV: Relational Database Management Systems	3	-	5	25	75	100
	III	21UCSP03	Practical III: SQL and PL / SQL	-	2	2	40	60	100
	III	21UCS05	Core V: Computer Network	3	-	4	25	75	100
	III		Allied III	6	-	4	25	75	100
	III		Allied -Practical	-	-	-	-	-	-
	IV	21UCSSP01	SBEC-I : Office Automation Lab	-	2	3	40	60	100
	IV	NMEC-1	Non -Major Elective Course – I	2	-	2	25	75	100
			Total	26	4	26	230	570	800



B.Sc-Computer Science Syllabus under CBCS Pattern with effect from 2021-2022 Onwards

SEM	PART	SUB CODE	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
SEMESTER – IV									
IV	I	21UFTA04	Tamil – IV	6	-	3	25	75	100
	II	21UFEN04	English – IV	6	-	3	25	75	100
	III	21UCS06	Core VI : Programming in Java	4	-	4	25	75	100
	III	21UCSP04	Practical IV: Java programming	-	3	2	40	60	100
	III		Allied IV	5	-	4	25	75	100
	III		Allied -Practical Lab	-	2	2	40	60	100
	IV	21UCSSP02	SBEC - II : Image Editing Tool	-	2	3	40	60	100
	IV	NMEC-2	Non -Major Elective – II	2	-	2	25	75	100
	IV	Add-on	Add-on Course Internship Programme	-	-	-	-	-	-
			Total	23	7	23	245	555	800
SEMESTER – V									
V	III	21UCS07	Core VII: Operating Systems	5	-	4	25	75	100
	III	21UCS08	Core VIII: Web Technology	5	-	4	25	75	100
	III	21UCSP05	Practical V : Web Technology Lab	-	3	2	40	60	100
	III	21UCS09	Core IX: Linux and Shell Programming	5	-	4	25	75	100
	III	21UCSP06	Practical VI : Shell Programming	-	4	2	40	60	100
	III	21UCSE01 /02/03	Elective – I	5	-	4	25	75	100
	IV	21UCSSP03	SBEC III-Mobile Application Development Lab	-	3	3	40	60	100
				Total	20	10	23	220	480
SEMESTER – VI									
VI	III	21UCS10	Core X: Programming in Python	6	-	5	25	75	100
	III	21UCSP07	Practical VII : Python Programming	-	4	3	40	60	100
	III	21UCSPR01	Mini Project	-	5	5	40	60	100
	III	21UCSE04 /05/06	Elective-II	6	-	4	25	75	100
	III	21UCSE07 /08/09	Elective-III	6	-	4	25	75	100
	IV	21UCSS01	SBEC IV- Quantitative Aptitude	3	-	3	25	75	100
	V	21UEX01	Extension Activities	-	-	1	-	-	-
				Total	21	9	25	180	420

Practical Examination should be conducted in the same semester



ELECTIVE SUBJECTS

Elective – I

Sem	Part	Subject Code	Subject
V	III	21UCSE01	Data Mining and Warehousing
		21UCSE02	Software Project Management
		21UCSE03	Software Engineering

Elective – II

Sem	Part	Subject Code	Subject
VI	III	21UCSE04	Mobile Computing
		21UCSE05	Wireless Network
		21UCSE06	Computer Graphics

Elective – III

Sem	Part	Subject Code	Subject
VI	III	21UCSE07	Software Testing
		21UCSE08	Network Security
		21UCSE09	Internet of Things



Non Major Elective Course – (NMEC)

Extra Disciplinary Subjects offered by the Department of Computer Science

The department can offer any one of the subjects to the other major subject students in each semester.

PART	SEM	SUB CODE	TITLE OF THE SUBJECT	Lect. Hours	Credit	MARKS		
						CIA	EA	TOTAL
IV	III	21UCSN01	NMEC I: Basics of Computers	2	2	25	75	100
		21UCSN02	NMEC I: Computer Applications for Automation	2	2	25	75	100
	IV	21UCSN03	NMEC II: Basics of Internet	2	2	25	75	100
		21UCSN04	NMEC II: Image Editing Tool	2	2	25	75	100

SBEC – Skill Based Elective Courses

SEM	PART	SUB CODE	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
III	IV	21UCSSP01	SBEC - I : Office Automation Lab	-	2	3	40	60	100
IV	IV	21UCSSP02	SBEC - II : Image Editing Tool	-	2	3	40	60	100
V	IV	21UCSSP03	SBEC -III : Mobile Application Development	-	3	3	40	60	100
VI	IV	21UCSS01	SBEC-IV : Quantitative Aptitude	3	-	3	25	75	100



Allied Subjects for any Degree offered by the Department of Computer Science

SYLLABUS - CBCS PATTERN

EFFECTIVE FROM THE ACADEMIC YEAR 2021-2022

All subjects should be handled and valued by Department of Computer Science only. For University practical examinations both Internal and External examiners should be appointed from Department of Computer Science.

FIRST OPTION (Allied Computer Science)

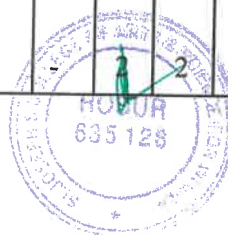
First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III 21UCSA01	Allied Paper – I Fundamental of Computers	7	-	4	25	75	100
	II/IV 21UCSA02	Allied Paper – II Computer Applications in Office	5	-	4	25	75	100
	21UCSAP01	Allied Practical Office Automation	-	2	2	40	60	100

SECOND OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III 21UCSA03	Allied Paper – I Database Systems	7	-	4	25	75	100
	II/IV 21UCSA04	Allied Paper – II E-Commerce Techniques	5	-	4	25	75	100
	21UCSAP02	Allied Practical HTML Programming	-	2	2	40	60	100



B.Sc-Computer Science Syllabus under CBCS Pattern with effect from 2021-2022 Onwards

THIRD OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III 21UCSA05	Allied Paper – I Programming in C	7	-	4	25	75	100
	II /IV 21UCSA06	Allied Paper – II Programming in Visual Basic	5	-	4	25	75	100
	21UCSAP03	Allied Practical – II Programming in C & Visual Basic Practical	-	2	2	40	60	100



Allied Subjects for Computer Science/Information

Science /BCA

SYLLABUS - CBCS PATTERN

EFFECTIVE FROM THE ACADEMIC YEAR 2021-2022

FIRST OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper – I Statistical Methods and their Applications I	7	-	4	25	75	100
	II/IV	Allied Paper – II Statistical Methods and their Applications II	5	-	4	25	75	100
		Allied Practical Statistical Practical	-	2	2	40	60	100

SECOND OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper –I Principles of Accounting	7	-	4	25	75	100
	II/IV	Allied Paper II Cost and Management Accounting	5	-	4	25	75	100
		Allied Practical Commerce Practical	-	2	2	40	60	100



THIRD OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Mathematics Paper – I	7	-	4	25	75	100
	II/IV	Allied Mathematics Paper – II	5	-	4	25	75	100
		Allied Mathematics Practical	-	2	2	40	60	100

FOURTH OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Physics Paper –I	7	-	4	25	75	100
	II/IV	Allied Physics Paper II	5	-	4	25	75	100
		Allied Physics Practical	-	2	2	40	60	100

FIFTH OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Electronics Paper –I	7	-	4	25	75	100
	II/IV	Allied Electronics Paper II	5	-	4	25	75	100
		Allied Electronics Practical	-	2	2	40	60	100

5. STRUCTURE OF M. Sc (Computer Science) PROGRAMME UNDER CBCS PATTERN FOR AFFILIATED COLLEGES

CURRICULUM AND SCHEME OF EXAMINATIONS

Courses	Number of Credits	Hours Per Week	Exam Duration (Hrs.)	Marks		
				CIA	EA	Total
Semester-I						
Core Course-I- Design and Analysis of Algorithms	4	4	3	25	75	100
Core Course-II- Distributed Operating System	4	4	3	25	75	100
Core Course-III-Advanced Java Programming	4	4	3	25	75	100
Core Course-IV- Internet of Things	4	4	3	25	75	100
Elective Course – I	4	4	3	25	75	100
Core Course-V - Lab - I - Advanced Java Programming Lab	2	5	3	40	60	100
Core Course-VI - Lab - II Algorithms Using C++ Lab	2	5	3	40	60	100
Semester-II						
Core Course-VII-Advanced Web Technology	4	4	3	25	75	100
Core Course - VIII - Compiler Design	4	4	3	25	75	100
Core Course - IX-Data Mining	4	4	3	25	75	100
Elective Course II	4	4	3	25	75	100
EDC –I	4	4	3	25	75	100
Core Course-X-Lab – III Web Technology Lab	2	4	3	40	60	100
Core Course - XI-Lab – IV Data Mining Lab	2	4	3	40	60	100
Human Rights	-	2	3	25	75	100*



Courses	Number of Credits	Hours Per Week	Exam Duration (hrs)	Marks		
				CIA	EA	Total
Semester-III						
Core Course - XII - Open Source Computing	4	4	3	25	75	100
Core Course - XIII - Digital Image Processing	4	4	3	25	75	100
Core Course - XIV - Big Data Analytics	4	4	3	25	75	100
Elective Course III	4	4	3	25	75	100
Elective Course IV	4	4	3	25	75	100
Core Course-XV - Digital Image Processing Lab	2	5	3	40	60	100
Core Course-XVI – Mini Project Using Open Source	4	5	3	40	60	100
Add On Course - SWAYAM/MOOC/SOFT SKILL	3					
Semester-IV(Option I)						
Core Course - XVII – Machine Learning	4	5	3	25	75	100
Elective Course V	4	5	3	25	75	100
Core Course-XVII - Project Work and Viva-Voce	8	-	-	50	150	200
Total	66			590	1410	2000
Core EDC	04			25	75	100
Elective	20			125	375	500
Add On Course	03			-	-	-
Human Rights	-			25	75	100*
Grand Total	93			765	1935	2700
Semester-IV(Option II)						
Core Course-XVII - Project Work and Viva-Voce	16	-	-	100	300	400
Total	70			615	1485	2100
Core EDC	04			25	75	100
Elective	16			100	300	400
Add On Course	03			-	-	-
Human Rights	-			25	75	100*
Grand Total	93			765	1935	2700

ELECTIVES

Elective Course–I

Advanced Computer Architecture
Optimizing Techniques
Embedded Systems

Elective Course–III

Object Oriented System Development
Cloud Computing
Artificial Intelligence

Elective Course–V

Web Services
Wireless Networks
Cryptography and Network Security

Elective Course–II

Soft Computing
Advanced Database Management System
Advanced Computer Networks

Elective Course–IV

WAP and XML
Mobile Computing
Grid Computing

EDC-EXTRA DISCIPLINARY COURSE

Students are expected to opt EDC (Non major elective) offered to other departments.

1. Principles of Information Technology
2. Fundamentals of Computers and Communications
3. E-Commerce

CIA – CONTINUOUS INTERNAL ASSESSMENT

EA – EXTERNAL ASSESSMENT

6. EXAMINATIONS

THEORY

EVALUATION OF CONTINUOUS INTERNAL ASSESSMENT

Test	:10 Marks
Seminar	:05 Marks
Assignment	:05 Marks
Attendance	:05 Marks

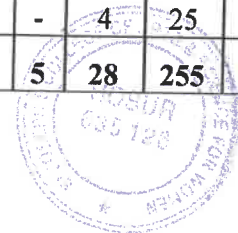
Total	:25 Marks

(No passing minimum)



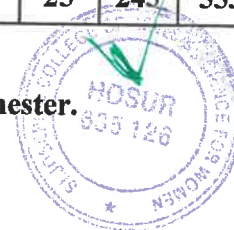
COURSE OF STUDY AND SCHEME OF EXAMINATION

Part	Subject Code	Subject Title	Hours		Credits	Marks		
			Lect.	Lab		CIA	EA	Total
SEMESTER I								
I	21UFTA01	Tamil I	6	-	3	25	75	100
II	21UFEN01	English I	6	-	3	25	75	100
II	21UCA01	Core I: Problem Solving Through C	6	-	5	25	75	100
III	21UCAP01	Practical I: C Programming	-	3	2	40	60	100
III		Allied I	7	-	4	25	75	100
IV	21UVE01	Value Education	2	-	2	25	75	100
IV		Professional English- Physical Science I	4	-	4	25	75	100
Total			31	3	23	190	510	700
SEMESTER II								
I	21UFTA02	Tamil II	6	-	3	25	75	100
II	21UFEN02	English II	6	-	3	25	75	100
III	21UCA02	Core II : Object Oriented Programming Concepts using C ++	3	-	5	25	75	100
III	21UCAP02	Practical II : C++ Programming Lab	-	3	2	40	60	100
III	21UCA03	Core III: Computer Organization and Architecture	4	-	5	25	75	100
III		Allied II	5	-	4	25	75	100
III		Allied II – Practical		2	2	40	60	100
IV	21UES01	Environmental Studies	1	-	-	25	75	100
IV		Professional English- Physical Science II	4	-	4	25	75	100
Total			29	5	28	255	645	900



Part	Subject Code	Subject Title	Hours		Credits	Marks		
			Lect.	Lab		CIA	EA	Total
SEMESTER III								
III	21UCA04	Core IV : Data Structure and Algorithms	5	-	5	25	75	100
III	21UCA05	Core V: Operating System	6	-	4	25	75	100
III	21UCA06	Core VI: Relational Database Management Systems	5	-	4	25	75	100
III	21UCAP03	Practical III: SQL and PL/SQL	-	3	2	40	60	100
III		Allied III	7	-	4	25	75	100
III		Allied Practical	-	-	-	-	-	-
III	21UCASP01	SBEC I- Office Automation Lab	-	2	3	40	60	100
IV	NMEC –I	Non –Major Elective – I	2	-	2	25	75	100
	Total		25	5	24	205	495	700
SEMESTER IV								
III	21UCA07	Core VII : Computer Network	5	-	4	25	75	100
III	21UCA08	Core VIII : Programming in Java	5	-	4	25	75	100
III	21UCAP04	Practical IV: Java programming	-	3	2	40	60	100
III	21UCA09	Core IX :Software Engineering	6	-	4	25	75	100
III		Allied IV	5	-	4	25	75	100
III		Allied –Practical	-	2	2	40	60	100
IV	21UCASP02	SBEC - II : Image Editing Tool	-	2	3	40	60	100
IV	NMEC - II	Non –Major Elective – II	2	-	2	25	75	100
IV	Add-on	Add-on Course Internship Programme	-	-	-	-	-	-
	Total		23	7	25	245	555	800

* Allied Practical Examination will be conducted at the end of even semester.



Part	Subject Code	Subject Title	Hours		Credits	Marks		
			Lect.	Lab		CIA	EA	Total

SEMESTER V

III	21UCA10	Core X : Data Mining and Warehousing	5	-	4	25	75	100
III	21UCA11	Core XI : Web Technology	5	-	4	25	75	100
III	21UCAP05	Practical V : Web Technology Lab	-	3	2	40	60	100
III	21UCA12	Core XII: Visual Programming	5	-	4	25	75	100
III	21UCAE01/02/03	Elective – I	5	-	4	25	75	100
III	21UCAP06	Practical VI: Programming in VB	-	4	2	40	60	100
IV	21UCASP03	SBEC – III :Mobile Application Development	-	3	3	40	60	100
	Total		20	10	23	220	480	700

SEMESTER VI

III	21UCA13	Core XIII : Programming in Python	6	-	5	25	75	100
III	21UCAP07	Practical VII :Python Programming	-	4	3	40	60	100
III	21UCAPR01	Mini Project	-	5	5	40	60	100
III	21UCAE04/05/06	Elective II	6	-	4	25	75	100
III	21UCAE07/08/09	Elective III	6	-	4	25	75	100
IV	21UCAS01	SBEC - IV : Quantitative Aptitude	3	-	3	25	75	100
V	21UEX01	Extension Activity	-	-	1	-	-	-
	Total		21	9	25	180	420	600



ELECTIVE SUBJECTS

Elective – I

Sem	Part	Subject Code	Subject Title
V	III	21UCAE01	Artificial Intelligence
		21UCAE02	Management Information System
		21UCAE03	Mobile Computing

Elective – II

Sem	Part	Subject Code	Subject Title
VI	III	21UCAE04	Wireless Network
		21UCAE05	Computer Graphics
		21UCAE06	Software Testing

Elective – III

Sem	Part	Subject Code	Subject Title
VI	III	21UCAE07	E-Commerce Technology
		21UCAE08	Software Project Management
		21UCAE09	Internet of Things



PERIYAR UNIVERSITY
Non Major Elective Course – (NMEC)

Extra Disciplinary Subjects offered by the Department of Computer Science/BCA

The department can offer any one of the subjects to the other major subject students in each semester.

PART	SEM	SUB CODE	SUBJECT TITLE	Lect. Hours	Credit	MARKS		
						CIA	EA	TOTAL
SEMESTER –III & IV								
IV	III	21UCAN01	NMEC I: Basics of Computers	2	2	25	75	100
		21UCAN02	NMEC I: Computer Applications for Automation	2	2	25	75	100
	IV	21UCAN03	NMEC II: Basics of Internet	2	2	25	75	100
		21UCAN04	NMEC II: Image Editing Tool	2	2	25	75	100

SBEC – Skill Based Elective Courses

Part	Semester	Subject Title	Hours		Credits	Marks		
			Lecture	LAB		CIA	EA	Total
IV	III	SBEC – I : Office Automation Lab	-	2	3	40	60	100
IV	IV	SBEC – II : Image Editing Tool	-	2	3	40	60	100
IV	V	SBEC - III : Mobile Application Development	-	3	3	40	60	100
IV	VI	SBEC-IV : Quantitative Aptitude	3		3	25	75	100

Allied Subjects for any Degree offered by the Department of Computer Applications SYLLABUS - CBCS PATTERN

EFFECTIVE FROM THE ACADEMIC YEAR 2021-2022

All Papers should be handled and valued by Computer Science Department only. For University practical examinations both Internal and External examiners should be appointed from Department of Computer Science / Applications. **(Select any one of the Subject options with Practical)**

FIRST OPTION (Allied Computer Science) First Year / Second Year

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper – I						
	21UCSA01	Fundamental of Computers	7	-	4	25	75	100
	II/IV	Allied Paper – II						
	21UCSA02	Computer Applications in Office	5	-	4	25	75	100
	21UCSAP01	Allied Practical Office Automation	-	2	2	40	60	100

SECOND OPTION (Allied Computer Science) First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper – I						
	21UCSA03	Database Systems	7	-	4	25	75	100
	II/IV	Allied Paper – II						
	21UCSA04	E-Commerce Techniques	5	-	4	25	75	100
	21UCSAP02	Allied Practical HTML Programming	-	2	2	40	60	100

Allied Subjects for Computer Science/Information Science /BCA

SYLLABUS - CBCS PATTERN EFFECTIVE FROM THE ACADEMIC YEAR 2021-2022 FIRST OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper – I Statistical Methods and their Applications I	7	-	4	25	75	100
	II/IV	Allied Paper – II Statistical Methods and their Applications II	5	-	4	25	75	100
		Allied Practical – II Statistical Practical	-	2	2	40	60	100

SECOND OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper –I Principles of Accounting	7	-	4	25	75	100
	II/IV	Allied Paper II Cost and Management Accounting	5	-	4	25	75	100
		Allied Practical Commerce Practical	-	2	2	40	60	100



THIRD OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect	Lab		CIA	EA	TOTAL
III	I /III	Allied Mathematics Paper – I	7	-	4	25	75	100
	II/IV	Allied Mathematics Paper – II	5	-	4	25	75	100
		Allied Mathematics Practical	-	2	2	40	69	100

FOURTH OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect	Lab		CIA	EA	TOTAL
III	I /III	Allied Physics Paper –I	7	-	4	25	75	100
	II/IV	Allied Physics Paper II	5	-	4	25	75	100
		Allied Physics Practical	-	2	2	40	60	100

FIFTH OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT TITLE	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Electronics Paper –I	7	-	4	25	75	100
	II/IV	Allied Electronics Paper II	5	-	4	25	75	100
		Allied Electronics Practical	-	2	2	40	60	100



SEM	PART	SUB CODE	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
SEMESTER – IV									
IV	I	21UFTA04	Tamil – IV	6	-	3	25	75	100
	II	21UFEN04	English – IV	6	-	3	25	75	100
	III	21UCS06	Core VI : Programming in Java	4	-	4	25	75	100
	III	21UCSP04	Practical IV: Java programming	-	3	2	40	60	100
	III		Allied IV	5	-	4	25	75	100
	III		Allied -Practical Lab	-	2	2	40	60	100
	IV	21UCSSP02	SBEC - II : Image Editing Tool	-	2	3	40	60	100
	IV	NMEC-2	Non -Major Elective – II	2	-	2	25	75	100
	IV	Add-on	Add-on Course Internship Programme	-	-	-	-	-	-
			Total	23	7	23	245	555	800
SEMESTER – V									
V	III	21UCS07	Core VII: Operating Systems	5	-	4	25	75	100
	III	21UCS08	Core VIII: Web Technology	5	-	4	25	75	100
	III	21UCSP05	Practical V : Web Technology Lab	-	3	2	40	60	100
	III	21UCS09	Core IX: Linux and Shell Programming	5	-	4	25	75	100
	III	21UCSP06	Practical VI : Shell Programming	-	4	2	40	60	100
	III	21UCSE01							
	III	/02/03	Elective – I	5	-	4	25	75	100
	IV	21UCSSP03	SBEC III-Mobile Application Development Lab	-	3	3	40	60	100
			Total	20	10	23	220	480	700
SEMESTER – VI									
VI	III	21UCS10	Core X: Programming in Python	6	-	5	25	75	100
	III	21UCSP07	Practical VII : Python Programming	-	4	3	40	60	100
	III	21UCSPR01	Mini Project	-	5	5	40	60	100
	III	21UCSE04							
	III	/05/06	Elective-II	6	-	4	25	75	100
	III	21UCSE07							
	III	/08/09	Elective-III	6	-	4	25	75	100
	IV	21UCSS01	SBEC IV- Quantitative Aptitude	3	-	3	25	75	100
V	21UEX01	Extension Activities	-	-	1	-	-	-	
			Total	21	9	25	180	420	600

Practical Examination should be conducted in the same semester



COURSE OF STUDY AND SCHEME OF EXAMINATION

SEM	PART	SUB CODE	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
SEMESTER – I									
I	I	21UFTA01	Tamil I	6	-	3	25	75	100
	II	21UFEN01	English I	6	-	3	25	75	100
	III	21UCS01	Core I: Problem Solving Through C	6	-	5	25	75	100
	III	21UCSP01	Practical I: C Programming	-	3	2	40	60	100
	III		Allied I	7	-	4	25	75	100
	IV	21UVE01	Value Education	2	-	2	25	75	100
	IV		Professional English- Physical Science I	4	-	4	25	75	100
				Total	31	3	23	190	510
SEMESTER – II									
II	I	21UFTA02	Tamil II	6	-	3	25	75	100
	II	21UFEN02	English II	6	-	3	25	75	100
	III	21UCS02	Core II : Data Structure and Algorithms	3	-	5	25	75	100
	III	21UCSP02	Practical II : Data Structure Using C	-	3	2	40	60	100
	III	21UCS03	Core III: Computer Organization and Architecture	4	-	5	25	75	100
	III		Allied II	5	-	4	25	75	100
	III		Allied – Practical	-	2	2	40	60	100
	IV	21UES01	Environmental Studies	1	-	-	25	75	100
	IV		Professional English- Physical Science II	4	-	4	25	75	100
				Total	29	5	28	255	645
SEMESTER – III									
III	I	21UFTA03	Tamil – III	6	-	3	25	75	100
	II	21UFEN03	English – III	6	-	3	25	75	100
	III	21UCS04	Core IV: Relational Database Management Systems	3	-	5	25	75	100
	III	21UCSP03	Practical III: SQL and PL / SQL	-	2	2	40	60	100
	III	21UCS05	Core V: Computer Network	3	-	4	25	75	100
	III		Allied III	6	-	4	25	75	100
	III		Allied -Practical	-	-	-	-	-	-
	IV	21UCSSP01	SBEC-I : Office Automation Lab	-	2	3	40	60	100
	IV	NMEC-1	Non -Major Elective Course – I	2	-	2	25	75	100
				Total	26	4	26	230	570



Non Major Elective Course – (NMEC)

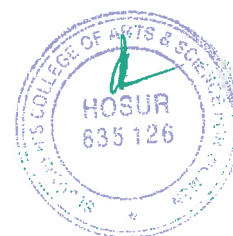
Extra Disciplinary Subjects offered by the Department of Computer Science

The department can offer any one of the subjects to the other major subject students in each semester.

PART	SEM	SUB CODE	TITLE OF THE SUBJECT	Lect. Hours	Credit	MARKS		
						CIA	EA	TOTAL
IV	III	21UCSN01	NMEC I: Basics of Computers	2	2	25	75	100
		21UCSN02	NMEC I: Computer Applications for Automation	2	2	25	75	100
	IV	21UCSN03	NMEC II: Basics of Internet	2	2	25	75	100
		21UCSN04	NMEC II: Image Editing Tool	2	2	25	75	100

SBEC – Skill Based Elective Courses

SEM	PART	SUB CODE	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
III	IV	21UCSSP01	SBEC - I : Office Automation Lab	-	2	3	40	60	100
IV	IV	21UCSSP02	SBEC - II : Image Editing Tool	-	2	3	40	60	100
V	IV	21UCSSP03	SBEC -III : Mobile Application Development	-	3	3	40	60	100
VI	IV	21UCSS01	SBEC-IV : Quantitative Aptitude	3	-	3	25	75	100



ELECTIVE SUBJECTS

Elective – I

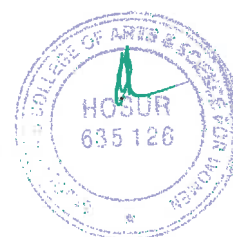
Sem	Part	Subject Code	Subject
V	III	21UCSE01	Data Mining and Warehousing
		21UCSE02	Software Project Management
		21UCSE03	Software Engineering

Elective – II

Sem	Part	Subject Code	Subject
VI	III	21UCSE04	Mobile Computing
		21UCSE05	Wireless Network
		21UCSE06	Computer Graphics

Elective – III

Sem	Part	Subject Code	Subject
VI	III	21UCSE07	Software Testing
		21UCSE08	Network Security
		21UCSE09	Internet of Things



Allied Subjects for any Degree offered by the Department of Computer Science

SYLLABUS - CBCS PATTERN

EFFECTIVE FROM THE ACADEMIC YEAR 2021-2022

All subjects should be handled and valued by Department of Computer Science only. For University practical examinations both Internal and External examiners should be appointed from Department of Computer Science.

FIRST OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III 21UCSA01	Allied Paper – I Fundamental of Computers	7	-	4	25	75	100
	II/IV 21UCSA02	Allied Paper – II Computer Applications in Office	5	-	4	25	75	100
	21UCSAP01	Allied Practical Office Automation	-	2	2	40	60	100

SECOND OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III 21UCSA03	Allied Paper – I Database Systems	7	-	4	25	75	100
	II/IV 21UCSA04	Allied Paper – II E-Commerce Techniques	5	-	4	25	75	100
	21UCSAP02	Allied Practical HTML Programming	-	2	2	40	60	100



B.Sc-Computer Science Syllabus under CBCS Pattern with effect from 2021-2022 Onwards

THIRD OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III 21UCSA05	Allied Paper – I Programming in C	7	-	4	25	75	100
	II /IV 21UCSA06	Allied Paper – II Programming in Visual Basic	5	-	4	25	75	100
	21UCSAP03	Allied Practical – II Programming in C & Visual Basic Practical	-	2	2	40	60	100



Allied Subjects for Computer Science/Information Science /BCA

SYLLABUS - CBCS PATTERN

EFFECTIVE FROM THE ACADEMIC YEAR 2021-2022

FIRST OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper – I Statistical Methods and their Applications I	7	-	4	25	75	100
	II/IV	Allied Paper – II Statistical Methods and their Applications II	5	-	4	25	75	100
		Allied Practical Statistical Practical	-	2	2	40	60	100

SECOND OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper –I Principles of Accounting	7	-	4	25	75	100
	II/IV	Allied Paper II Cost and Management Accounting	5	-	4	25	75	100
		Allied Practical Commerce Practical	-	2	2	40	60	100



THIRD OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Mathematics Paper – I	7	-	4	25	75	100
	II/IV	Allied Mathematics Paper – II	5	-	4	25	75	100
		Allied Mathematics Practical	-	2	2	40	60	100

FOURTH OPTION

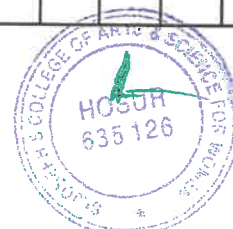
First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Physics Paper –I	7	-	4	25	75	100
	II/IV	Allied Physics Paper II	5	-	4	25	75	100
		Allied Physics Practical	-	2	2	40	60	100

FIFTH OPTION

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Electronics Paper –I	7	-	4	25	75	100
	II/IV	Allied Electronics Paper II	5	-	4	25	75	100
		Allied Electronics Practical	-	2	2	40	60	100



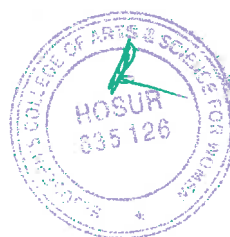
5. STRUCTURE OF M. Sc (Computer Science) PROGRAMME UNDER CBCS PATTERN FOR AFFILIATED COLLEGES

CURRICULUM AND SCHEME OF EXAMINATIONS

Courses	Number of Credits	Hours Per Week	Exam Duration (Hrs.)	Marks		
				CIA	EA	Total
Semester-I						
Core Course-I- Design and Analysis of Algorithms	4	4	3	25	75	100
Core Course-II- Distributed Operating System	4	4	3	25	75	100
Core Course-III-Advanced Java Programming	4	4	3	25	75	100
Core Course-IV- Internet of Things	4	4	3	25	75	100
Elective Course – I	4	4	3	25	75	100
Core Course-V - Lab - I - Advanced Java Programming Lab	2	5	3	40	60	100
Core Course-VI - Lab - II Algorithms Using C++ Lab	2	5	3	40	60	100
Semester-II						
Core Course-VII-Advanced Web Technology	4	4	3	25	75	100
Core Course - VIII - Compiler Design	4	4	3	25	75	100
Core Course - IX-Data Mining	4	4	3	25	75	100
Elective Course II	4	4	3	25	75	100
EDC –I	4	4	3	25	75	100
Core Course-X-Lab – III Web Technology Lab	2	4	3	40	60	100
Core Course - XI-Lab – IV Data Mining Lab	2	4	3	40	60	100
Human Rights	-	2	3	25	75	100*



Courses	Number of Credits	Hours Per Week	Exam Duration (hrs)	Marks		
				CIA	EA	Total
Semester-III						
Core Course - XII - Open Source Computing	4	4	3	25	75	100
Core Course - XIII - Digital Image Processing	4	4	3	25	75	100
Core Course - XIV - Big Data Analytics	4	4	3	25	75	100
Elective Course III	4	4	3	25	75	100
Elective Course IV	4	4	3	25	75	100
Core Course-XV - Digital Image Processing Lab	2	5	3	40	60	100
Core Course-XVI – Mini Project Using Open Source	4	5	3	40	60	100
Add On Course - SWAYAM/MOOC/SOFT SKILL	3					
Semester-IV(Option I)						
Core Course - XVII – Machine Learning	4	5	3	25	75	100
Elective Course V	4	5	3	25	75	100
Core Course-XVII - Project Work and Viva-Voce	8	-	-	50	150	200
Total Core EDC	66			590	1410	2000
Elective	04			25	75	100
Add On Course	20			125	375	500
Human Rights	03			-	-	-
	-			25	75	100*
Grand Total	93			765	1935	2700
Semester-IV(Option II)						
Core Course-XVII - Project Work and Viva-Voce	16	-	-	100	300	400
Total Core EDC	70			615	1485	2100
Elective	04			25	75	100
Add On Course	16			100	300	400
Human Rights	03			-	-	-
	-			25	75	100*
Grand Total	93			765	1935	2700



ELECTIVES

Elective Course–I

Advanced Computer Architecture
Optimizing Techniques
Embedded Systems

Elective Course–II

Soft Computing
Advanced Database Management System
Advanced Computer Networks

Elective Course–III

Object Oriented System Development
Cloud Computing
Artificial Intelligence

Elective Course–IV

WAP and XML
Mobile Computing
Grid Computing

Elective Course–V

Web Services
Wireless Networks
Cryptography and Network Security

EDC-EXTRA DISCIPLINARY COURSE

Students are expected to opt EDC (Non major elective) offered to other departments.

1. Principles of Information Technology
2. Fundamentals of Computers and Communications
3. E-Commerce

CIA – CONTINUOUS INTERNAL ASSESSMENT

EA – EXTERNAL ASSESSMENT

6. EXAMINATIONS

THEORY

EVALUATION OF CONTINUOUS INTERNAL ASSESSMENT

Test	:10 Marks
Seminar	:05 Marks
Assignment	:05 Marks
Attendance	:05 Marks

Total	:25 Marks

(No passing minimum)



COURSE OF STUDY AND SCHEME OF EXAMINATION

Part	Paper Code	Subject Title	Hours		Credits	Marks			
			Lec t.	Lab		CIA	EA	Total	
SEMESTER I									
I	Core I	Tamil I	6	-	3	25	75	100	
II		English I	6	-	3	25	75	100	
II		Computer Applications for Automation	5	-	5	25	75	100	
III		Practical - I	Office Automation	-	4	4	40	60	100
III		Allied I		7	-	4	25	75	100
IV		Value Education	Yoga	2	-	2	25	75	100
		Total	26	4	21	165	435	600	
SEMESTER II									
I	Core II	Tamil II	6	-	3	25	75	100	
II		English II	6	-	3	25	75	100	
III		C Programming	4	-	4	25	75	100	
III		Practical II	Programming in C	-	3	4	40	60	100
III		Allied II		4	-	3	25	75	100
III		Allied III		4	-	3	25	75	100
IV	SBEC - I	Internet and its Applications	1	1	2	25	75	100	
IV	Environment Studies		1	-	2	25	75	100	
		Total	26	4	24	215	585	800	



Part	Paper Code	Subject Title	Hours		Credits	Marks		
			Lec t.	Lab		CIA	EA	Total
SEMESTER III								
III	Core III	Fundamentals of Digital Computers	5	-	4	25	75	100
II	Core IV	Structured System analysis and Design	5	-	4	25	75	100
III	Core V	Data Structures and Algorithms	5	-	4	25	75	100
III	Practical III	Data Structures using C	-	5	4	40	60	100
III	Allied I	Practical Lab - I (*)	5	-	4	25	75	100
III	Allied II		-	3	-			
	Practical							
IV	NMEC –I	Tamil/ Advanced Tamil (OR) Non –Major elective – I	2	-	2	25	75	100
	Total	22	8	22	165	435	600	
SEMESTER IV								
III	Core VI	Relational Database Management Systems	5	-	4	25	75	100
III	Core VII	Operating Systems	5	-	4	25	75	100
III	Core VIII	Object oriented Programming with C++	4	-	4	25	75	100
IV	Practical IV	Programming in C++	-	4	4	40	60	100
IV	Allied II	Practical Lab – I (*)	5	-	4	25	75	100
	Paper - II							
	Allied II		-	3	2	40	60	100
	Practical							
IV	SBEC - II :	HTML and Java Script	1	1	2	25	75	100
IV		Tamil/ Advanced Tamil (OR)	2	-	2	25	75	100
	NMEC - II	Non –Major elective – I						
	Total	22	8	26	230	570	800	

* Allied Practical Examination will be conducted at the end of even semester.



Part	Paper Code	Subject Title	Hours		Credits	Marks		
			Lec t.	Lab		CIA	EA	Total
SEMESTER V								
III	Core IX	Web Technologies	5	-	4	25	75	100
III	Core X	Problem solving techniques	5	-	4	25	75	100
III	Core XI	JAVA Programming	5	-	4	25	75	100
III	Elective – I		5	-	5	25	75	100
III	Practical V	Programming in Java	-	5	4	40	60	100
IV	SBEC - III	Practical - Image Editing Tool	-	3	2	40	60	100
IV	SBEC - IV	Multi skill Development	2	-	2	25	75	100
	Total	22	8	25	190	510	700	
SEMESTER VI								
III	Core XII	GUI Programming	5	-	4	25	75	100
III	Core XIII	Computer Networks	5	-	4	25	75	100
III	Elective – II		5	-	5	25	75	100
III	Elective – III		5	-	5	25	75	100
III	Practical VI	Programming in VB	-	5	4	40	60	100
IV	SBEC - V	Practical-Android Programming	-	3	2	40	60	100
IV	SBEC - VI	Shell Programming	2	-	2	25	75	100
V		Extension Activity	-	-	1	-	-	-
	Total	22	8	27	190	510	700	



ELECTIVE SUBJECTS**Elective – I**

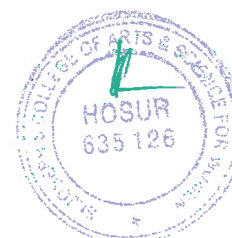
Sem	Part	Subject Code	Subject
V	III	Paper I	E-Commerce Technologies
		Paper II	System Software
		Paper III	Computer Graphics

Elective – II

Sem	Part	Subject Code	Subject
VI	III	Paper I	Software Testing
		Paper II	Parallel Processing
		Paper III	Multimedia

Elective – III

Sem	Part	Subject Code	Subject
VI	III	Paper I	Data mining and Warehousing
		Paper II	Image Processing
		Paper III	Mobile Computing



SBEC – Skill Based Elective Courses*

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				Th	Lab		CIA	EA	Total
IV	II		SBEC – I : Internet and its Applications	1	1	2	25	75	100
	IV		SBEC – II : HTML and JAVA Script	1	1	2	25	75	100
	V		SBEC – III : Practical-Image Editing Tool	-	3	2	40	60	100
	V		SBEC - IV : Multi Skill Development	3	-	2	25	75	100
	VI		SBEC - V : Practical-Android Programming	-	3	2	40	60	100
	VI		SBEC-VI : Shell Programming	2	-	2	25	75	100

Non Major Elective Course – (NMEC)

Extra Disciplinary Subjects offered by the Department of Computer Science The department can offer any one of the subjects to the other major subject students in each semester.

Part	Semester	Subject Code	Subject Title	Lect. Hours	Credits	Marks		
						CIA	EA	Total
IV	III		NMEC I: Basics of Computers	2	2	25	75	100
	III		NMEC I: System Administration and Maintenance	2	2	25	75	100
	IV		NMEC II: Office Automation	2	2	25	75	100
	IV		NMEC II: Basics of Internet	2	2	25	75	100



Allied Subjects for any Degree offered by the Department of Computer Science

SYLLABUS - CBCS PATTERN

EFFECTIVE FROM THE ACADEMIC YEAR 2017-2018

All Papers should be handled and valued by Computer Science Department only. For University practical examinations both Internal and External examiners should be appointed from Computer Science Department.

FIRST OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				Lect.	Lab		CIA	EA	Total
III	I/ II		Allied – I C Programming	4	-	2	25	75	100
	I/II		Allied Practical – I Programming in C	-	3	2	40	60	100
	II/IV		Allied – II C++ Programming	4	-	3	25	75	100
	II/IV		Allied Practical–II Programming in C++	-	3	2	40	60	100

SECOND OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
							CIA	EA	Total
III	I/ III		Allied – I Database Systems	4	-	3	25	75	100
	I/II		Allied Practical – I MS-Access	-	3	2	40	60	100
	II/IV		Allied II E–Commerce Techniques	4	-	3	25	75	100
	II/IV		Allied Practical – II HTML Programming	-	3	2	40	60	100



THIRD OPTION (Allied Computer Science)
First Year / Second Year (Select any one of the Subject with Practical)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				Lect.	Lab		CIA	EA	Total
III	I/ III		Allied – I Computer Applications in Office	4	-	3	25	75	100
	I/II		Allied Practical – I Office Automation	-	3	2	40	60	100
	II/IV		Allied – II Image Editing Tool	4	-	3	25	75	100
	II/IV		Allied Practical–II Image Editing Software	-	3	2	40	60	100

FOURTH OPTION (Allied Computer Science)
First Year / Second Year (Select any one of the Subject with Practical)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
							CIA	EA	Total
III	I/ III		Allied – I PHP Scripting Language	4	-	3	25	75	100
	I/II		Allied Practical – I PHP Programming	-	3	2	40	60	100
	II/IV		Allied – II Basics of Computer and Financial Computing	4	-	3	25	75	100
	II/IV		Allied Practical – II Financial Computing Software	-	3	2	40	60	100



Allied Papers for B.Sc. Computer Science offered by other Departments
I - YEAR (Allied – I: First Option)

Part	Semester Subject Code	Subject Title	Hours			Marks		
			Lect	Ta	Pr	CIA	EA	Total
III	I	Allied I : Paper-I: Algebra and Fourier series	6	-	4	25	75	100
	II	Allied I : Paper-II: Differential Equations and Laplace Transforms	4	-	3	25	75	100
	II	Allied I : – III : Practical	-	4	3	40	60	100

I - YEAR (Allied – I: Second Option)

Part	Semester Subject Code	Subject Title	Hours			Marks		
			Lect	Ta	Pr	CIA	EA	Total
III	I	Allied I : Paper – I: Discrete Mathematics	6	-	4	25	75	100
	II	Allied I : Paper – II: Numerical Methods	4	-	3	25	75	100
	II	Allied I : Paper – III : Graph Theory	4	-	3	25	75	100

I-Year (Allied – I: Statistics –Third Option)

Part	Semester Subject Code	Subject Title	Hours			Marks		
			Lect	Ta	Pr	CIA	EA	Total
III	I	Allied I :Paper-I: Allied Statistics –I	6	-	4	25	75	100
	II	Allied I :Paper-I: Allied Statistics –II	4	-	3	25	75	100
	II	Allied I :Paper-I: Allied Statistics –III (Practical)	4	-	3	25	75	100

II - YEAR (Allied – II: COMMERCE -First Option)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				Th	Lab		CIA	EA	Total
III	III		Allied II : Paper – I: Principles of Accounting	6	-	4	25	75	100
	IV		Allied II : Paper – II: Cost and Management Accounting	5	-	4	25	75	100
	III/IV		Allied II : Practical Lab -1: Allied Commerce Practical	2	-	2	40	60	100

II - YEAR (Allied – II: ELECTRONICS - Second Option)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				Th	Lab		CIA	EA	Total
III	III		Allied II: Paper – I: Applied Electronics-I	6	-	4	25	75	100
	IV		Allied II: Paper – II: Applied Electronics-II	5	-	3	25	75	100
	III/IV		Allied II: Practical Lab -1: Allied Electronics Lab –I	-	2	2	40	60	100

II - YEAR (Allied – II: PHYSICS - Third Option)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				Th	Lab		CIA	EA	Total
III	III		Allied II : Paper – I: Allied Physics – I	6	-	4	25	75	100
	IV		Allied II : Paper – II: Allied physics – II	4	-	3	25	75	100
	III/IV		Allied II : Practical Lab -1 Allied Physics Practical	-	2	2	40	60	100

COURSE OF STUDY AND SCHEME OF EXAMINATION

SEM	PART	SUB CODE	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS			
				Lect.	Lab		CIA	EA	TOTAL	
SEMESTER – I										
I	I	Language	Tamil - I	6	-	3	25	75	100	
	II	Language	English - I	6	-	3	25	75	100	
	III	Core I	Digital Computer Fundamentals and Microprocessor	6	-	6	25	75	100	
		Core Practical I	Assembly Language Programming	-	4	4	40	60	100	
		Allied I	Paper - I	6	-	4	25	75	100	
		Value Education		2	-	2	25	75	100	
			Total	26	4	22	165	435	600	
SEMESTER – II										
II	I	Language	Tamil - II	6	-	3	25	75	100	
	II	Language	English - II	6	-	3	25	75	100	
	III	Core II	C Programming	4	-	4	25	75	100	
		Core Practical II	Programming in C		3	4	40	60	100	
		Allied I	Paper - II	4	-	3	25	75	100	
	Allied Practical I	Paper - III (Practical)	-	4	3	25	75	100		
		IV	SBEC - I	System Administration and Maintenance	1	1	2	25	75	100
			EVS	Environment Studies	1	-	2	25	75	100
			Total	22	8	24	215	585	800	
SEMESTER – III										
III	I	Language	Tamil - III	6	-	3	25	75	100	
	II	Language	English - III	6	-	3	25	75	100	
	Core III	Object Oriented Programming with C++	3	-	3	25	75	100		
		Core IV	Data Structures and Algorithms	4	-	4	25	75	100	
		Core Practical III	Practical - III :Programming in C++	-	3	4	40	60	100	
	Allied II	Paper - I	4	-	4	25	75	100		
		Allied Practical II	Practical Lab - I (*)	-	2	-	-	-	-	
		IV	NMEC - I	Tamil/ Advanced Tamil (or) Non -Major Elective Course - I	2	-	2	25	75	100
			Total	25	5	23	190	510	700	

B Sc COMPUTER SCIENCE

SEM	PART	SUB CODE	SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
SEMESTER – IV									
IV	I	Language	Tamil - IV	6	-	3	25	75	100
	II	Language	English - IV	6	-	3	25	75	100
	III	Core V	Relational Database Management Systems	4	-	4	25	75	100
		Core	Practical - IV:RDBMS	-	3	4	40	60	100
		Practical IV							
		Allied II	Paper - II	5	-	4	25	75	100
		Allied II	Practical Lab - I(*)	-	2	2	40	60	100
		Practical							
		IV	SBEC - II	Internet and its Applications	1	1	2	25	75
	NMEC - II		Tamil/ Advanced Tamil (OR)						
Non -Major elective - II			2	-	2	25	75	100	
			Total	24	6	24	230	570	800
SEMESTER – V									
V	III	Core VI	GUI Programming	5	-	4	25	75	100
		Core VII	Operating Systems	5	-	4	25	75	100
		Core VIII	Computer Networks	5	-	4	25	75	100
		Elective - I		5	-	5	25	75	100
		Core	Programming in VB	-	5	4	40	60	100
	IV	Practical V							
		SBEC - III	Practical-Shell Programming	-	3	2	40	60	100
		SBEC - IV	Multi Skill Development	2	-	2	25	75	100
				Total	22	8	25	190	510
SEMESTER – VI									
VI	III	Core IX	Java Programming	5	-	4	25	75	100
		Core X	Software Engineering	5	-	4	25	75	100
		Elective-II		5	-	5	25	75	100
		Elective-III		5	-	5	25	75	100
		Core	Programming in Java	-	5	4	40	60	1 0 0
	IV	Practical VI							
		SBEC -V	Practical-Image Editing Tool		3	2	40	60	100
		SBEC -VI	PHP Scripting Language	2		2	25	75	100
	V		Extension Activities	-	-	1			
				Total	22	8	27	190	510

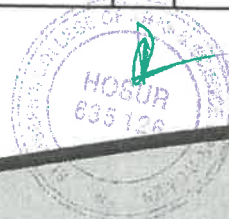
Practical Examination should be conducted in the same semester

ELECTIVE SUBJECTS

SEM	PART	SUB CODE	SUBJECT
Elective - I			
V	III		Discrete Structures Multimedia Problem Solving Techniques
Elective - II			
VI	III		Data Mining and Warehousing Unified Modeling Language Web Technologies
Elective - III			
VI	III		Mobile Computing Computer Graphics Internetworking with TCP/IP

SBEC – Skill Based Elective Courses

SEM	PART	- SUB CODE	SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
SEMESTER – IV									
IV	II		SBEC - I : System Administration and Maintenance	1	1	2	25	75	100
	IV		SBEC - II :Internet and its Applications	1	1	2	25	75	100
	V		SBEC -III :Practical-Shell Programming	-	3	2	40	60	100
	V		SBEC - IV : Multi Skill Development	2	-	2	25	75	100
	VI		SBEC - V:Practical-Image Editing Tool	-	3	2	40	60	100
	VI		SBEC-VI :PHP Scripting Language	2	-	2	25	75	100



Non Major Elective Course – (NMEC)

Extra Disciplinary Subjects offered by the Department of Computer Science

The department can offer any one of the subjects to the other major subject students in each semester.

PART	SEM	SUB CODE	SUBJECT	Lect. Hours	Credit	MARKS		
						CIA	EA	TOTAL
SEMESTER – IV								
IV	III		NMEC I: Basics of Computers	2	2	25	75	100
			NMEC I: System Administration and Maintenance	2	2	25	75	100
	IV		NMEC II: Office Automation	2	2	25	75	100
			NMEC II: Basics of Internet	2	2	25	75	100



Allied Subjects for any Degree offered by the Department of Computer Science

SYLLABUS - CBCS PATTERN EFFECTIVE FROM THE ACADEMIC YEAR 2017-2018

All Papers should be handled and valued by Computer Science Department only. For University practical examinations both Internal and External examiners should be appointed from Computer Science Department.

FIRST OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

SBEC – Skill Based Elective Courses

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper - I C Programming	4	-	3	25	75	100
		Allied Practical - I Programming in C	-	3	2	40	60	100
	II/IV	Allied Paper - II C++ Programming	4	-	3	25	75	100
		Allied Practical - II Programming in C++	-	3	2	40	60	100



SECOND OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper - I Database Systems	4	-	3	25	75	100
		Allied Practical - I MS-Access	-	3	2	40	60	100
	II/IV	Allied Paper - II E - Commerce Techniques	4	-	3	25	75	100
		Allied Practical - II HTML Programming	-	3	2	40	60	100

THIRD OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper - I Computer Applications in Office	4	-	3	25	75	100
		Allied Practical - I Office Automation	-	3	2	40	60	100
	II/IV	Allied Paper - II Image Editing Tool	4	-	3	25	75	100
		Allied Practical - II Image Editing Software	-	3	2	40	60	100



FOURTH OPTION (Allied Computer Science)

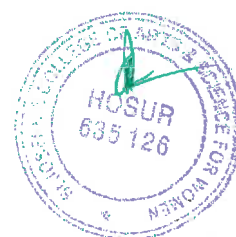
First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper - I PHP Scripting Language	4	-	3	25	75	100
		Allied Practical - I PHP Programming	-	3	2	40	60	100
	II/IV	Allied Paper - II Basics of Computer and Financial Computing	4	-	3	25	75	100
		Allied Practical - II Financial Computing Software	-	3	2	40	60	100

Allied Papers for B.Sc. Computer Science offered by other Departments

I - YEAR / II YEAR (Allied I / II - Mathematics Group -I)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/III	Paper - I: Allied Mathematics I	6	-	4	25	75	100
	II/IV	Paper - II: Allied Mathematics II	4	-	3	25	75	100
	II/IV	Paper - III : Allied Mathematics Practical	-	4	3	40	60	100



B Sc COMPUTER SCIENCE

I - YEAR / II YEAR (Allied I / II : MATHEMATICS GROUP - II)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/III	Allied : Paper - I: Discrete Mathematics	6	-	4	25	75	100
	II/IV	Allied : Paper - II: Numerical Methods	4	-	3	25	75	100
	II/IV	Allied : Paper - III : Graph Theory	4	-	3	25	75	100

I / II YEAR (Allied – I / II : STATISTICS)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I / III	Allied : Paper - I: Statistical Mehtods	6	-	4	25	75	100
	II/IV	Allied : Paper - II: Applied Statistics	4	-	3	25	75	100
	II/IV	Allied Statistics-III (Practical) (Based on Allied theory paper I and II)	-	4	3	40	60	100

II - YEAR (Allied – II: COMMERCE)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/III	Allied I : Paper - I: 0 Principles of Accounting	6	-	4	25	75	100
	II/IV	Allied I : Paper - II: Cost and Management Accounting	5	-	4	25	75	100
	II/IV	Allied Commerce Practical	-	2	2	40	60	100

I YEAR / II YEAR (Allied I / II: ELECTRONICS)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/ III	Allied I : Paper - I : Appied Electronics - I	6	-	4	25	75	100
	II/IV	Allied I : Paper - II : Appied Electronics - II	5	-	4	25	75	100
	II/IV	Allied II : Practical Lab - I : Allied Electronics Practical	-	2	2	40	60	100

I YEAR / II YEAR (Allied I / II: PHYSICS)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/ III	Allied I : Paper - I : Allied Physics - I	6	-	4	25	75	100
	II/IV	Allied I : Paper - II : Allied Physics - II	5	-	4	25	75	100
	II/IV	Allied II : Practical Lab - I : Allied Physics Practical	-	2	2	40	60	100



**5. STRUCTURE OF M.Sc., (Computer Science) PROGRAMME UNDER CBCS
PATTERN FOR AFFILIATED COLLEGES (FROM 2017 AND THEREAFTER)**

CURRICULUM AND SCHEME OF EXAMINATIONS

Courses	Number of Credits	Hours Per Week	Exam Duration (hrs)	Marks		
				CIA	EA	Total
Semester-I						
Core Course-I-17PCS01- Design and Analysis of Algorithms	4	4	3	25	75	100
Core Course-II-17PCS02- Advanced Computer Architecture	4	4	3	25	75	100
Core Course-III-17PCS03- Advanced Java Programming	4	4	3	25	75	100
Core Course-IV-17PCS04- Principles of Programming Languages	4	4	3	25	75	100
Core Course-V-17PCS05- Advanced Operating Systems	4	4	3	25	75	100
Core Course-VI - 17PCSP01- Lab – I - Advanced Java Programming Lab	2	5	3	40	60	100
Core Course-VII- 17PCSP02- Lab - II Algorithms Using C++ Lab	2	5	3	40	60	100
Semester-II						
Core Course-VIII-17PCS06- .NET Programming	4	4	3	25	75	100
Core Course-IX - 17PCS07- Discrete Structures	4	4	3	25	75	100
Core Course-X-17PCS08- Data Mining Techniques	4	4	3	25	75	100
Elective Course I - 17PCSE__	4	4	3	25	75	100
EDC –I	4	4	3	25	75	100
Core Course-XI-17PCSP03- Lab – III .Net Programming Lab	2	4	3	40	60	100
Core Course-XII-17PCSP04- Lab – IV Data Mining Lab	2	4	3	40	60	100
17PHR01 - Human Rights	-	2	3	25	75	100*



Courses	Number of Credits	Hours Per Week	Exam Duration (hrs)	Marks		
				CIA	EA	Total
Semester-III						
Core Course-XIII-17PCS09- Open Source Computing	4	4	3	25	75	100
Core Course-XIV-17PCS10- Network Security and Cryptography	4	4	3	25	75	100
Core Course-XV-17PCS11- Mobile Computing	4	4	3	25	75	100
Core Course-XVI-17PCS12 - Digital Image Processing	4	4	3	25	75	100
Elective Course II - 17PCSE__	4	4	3	25	75	100
Core Course-XVII -17PCSP05 - Lab – V - Python Programming Lab	2	5	3	40	60	100
Core Course-XVIII-17PCSP06-Lab - VI - Mobile Application Development Lab	2	5	3	40	60	100
Semester-IV						
Elective Course III - 17PCSE__	4	5	3	25	75	100
Elective Course IV - 17PCSE__	4	5	3	25	75	100
Core Course-XIX-17PCSPR1 Project Work and Viva-Voce	10	-	-	50	150	200
Total	70			590	1410	2000
Core EDC	04			25	75	100
Elective	16			100	300	400
Human Rights	-			25*	75*	100*
Grand Total	90			715	1785	2500

* Human Rights mark is excluded for aggregation

Electives

Elective Course -I

Course 17PCSE01 Theory of Automata
Course 17PCSE02 Compiler Design
Course 17PCSE03 Embedded System
Course 17PCSE04 E-Technologies

Elective Course -II

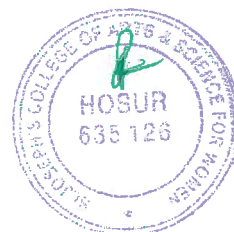
Course 17PCSE05 Soft Computing
Course 17PCSE06 Internet of Things
Course 17PCSE07 Object Oriented Analysis and Design
Course 17PCSE08 Resource Management Techniques

Elective Course -III

Course 17PCSE09 Cyber Security
Course 17PCSE10 Cloud Computing
Course 17PCSE11 Big Data Analytics
Course 17PCSE12 Social Computing

Elective Course -IV

Course 17PCSE13 Artificial Intelligence
Course 17PCSE14 Web Technologies
Course 17PCSE15 Software Engineering
Course 17PCSE16 Wireless Application Protocols



EDC-EXTRA DISCIPLINARY COURSE

Students are expected to opt EDC (Non major elective) offered by other departments.

1. 17PCSED1 - Principles of Information Technology
2. 17PCSED2 - Fundamentals of Computers and Communications
3. 17PCSED3 - E-Commerce

CIA – CONTINUOUS INTERNAL ASSESSMENT EA – EXTERNAL ASSESSMENT

6. EXAMINATIONS

6.1 THEORY

6.1.1 EVALUATION OF CONTINUOUS INTERNAL ASSESSMENT

Test	:	10 Marks
Seminar	:	05 Marks
Assignment	:	05 Marks
Attendance	:	05 Marks

Total	:	25 Marks

(No passing minimum)

6.1.2 EVALUATION OF EXTERNAL ASSESSMENT QUESTION PAPER PATTERN

Time: 3 Hours

Max. Marks: 75

PART- A: 5x5 = 25 marks

Answer all the questions

One question from each unit (either or type)

PART- B: 5x10 = 50 marks

Answer all the questions

One question from each unit (either or type)

The Passing minimum shall be 50% out of 75 marks (38 marks)

6.2 PRACTICAL / SOFTWARE DEVELOPMENT

6.2.1 EVALUATION OF CONTINUOUS INTERNAL ASSESSMENT

Test 1	:	15 Marks
Test 2	:	15 Marks
Record	:	10 Marks

Total	:	40 Marks

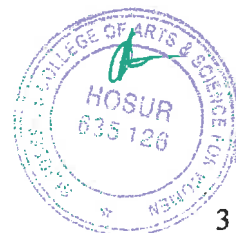
(No passing minimum)



5. STRUCTURE OF M.Sc., (Computer Science) PROGRAMME UNDER CBCS PATTERN FOR AFFILIATED COLLEGES (FROM 2017 AND THEREAFTER)

CURRICULUM AND SCHEME OF EXAMINATIONS

Courses	Number of Credits	Hours Per Week	Exam Duration (hrs)	Marks		
				CIA	EA	Total
Semester-I						
Core Course-I-17PCS01- Design and Analysis of Algorithms	4	4	3	25	75	100
Core Course-II-17PCS02- Advanced Computer Architecture	4	4	3	25	75	100
Core Course-III-17PCS03- Advanced Java Programming	4	4	3	25	75	100
Core Course-IV-17PCS04- Principles of Programming Languages	4	4	3	25	75	100
Core Course-V-17PCS05- Advanced Operating Systems	4	4	3	25	75	100
Core Course-VI - 17PCSP01- Lab – I - Advanced Java Programming Lab	2	5	3	40	60	100
Core Course-VII- 17PCSP02- Lab - II Algorithms Using C++ Lab	2	5	3	40	60	100
Semester-II						
Core Course-VIII-17PCS06- .NET Programming	4	4	3	25	75	100
Core Course-IX - 17PCS07- Discrete Structures	4	4	3	25	75	100
Core Course-X-17PCS08- Data Mining Techniques	4	4	3	25	75	100
Elective Course I - 17PCSE__	4	4	3	25	75	100
EDC –I	4	4	3	25	75	100
Core Course-XI-17PCSP03- Lab – III .Net Programming Lab	2	4	3	40	60	100
Core Course-XII-17PCSP04- Lab – IV Data Mining Lab	2	4	3	40	60	100
17PHR01 - Human Rights	-	2	3	25	75	100*



Courses	Number of Credits	Hours Per Week	Exam Duration (hrs)	Marks		
				CIA	EA	Total
Semester-III						
Core Course-XIII-17PCS09-Open Source Computing	4	4	3	25	75	100
Core Course-XIV-17PCS10-Network Security and Cryptography	4	4	3	25	75	100
Core Course-XV-17PCS11-Mobile Computing	4	4	3	25	75	100
Core Course-XVI-17PCS12 - Digital Image Processing	4	4	3	25	75	100
Elective Course II - 17PCSE__	4	4	3	25	75	100
Core Course-XVII -17PCSP05 - Lab – V - Python Programming Lab	2	5	3	40	60	100
Core Course-XVIII-17PCSP06-Lab - VI - Mobile Application Development Lab	2	5	3	40	60	100
Semester-IV						
Elective Course III - 17PCSE__	4	5	3	25	75	100
Elective Course IV - 17PCSE__	4	5	3	25	75	100
Core Course-XIX-17PCSPR1 Project Work and Viva-Voce	10	-	-	50	150	200
Total	70			590	1410	2000
Core EDC	04			25	75	100
Elective	16			100	300	400
Human Rights	-			25*	75*	100*
Grand Total	90			715	1785	2500

* Human Rights mark is excluded for aggregation

Electives

Elective Course -I

Course 17PCSE01 Theory of Automata
Course 17PCSE02 Compiler Design
Course 17PCSE03 Embedded System
Course 17PCSE04 E-Technologies

Elective Course -II

Course 17PCSE05 Soft Computing
Course 17PCSE06 Internet of Things
Course 17PCSE07 Object Oriented Analysis and Design
Course 17PCSE08 Resource Management Techniques

Elective Course -III

Course 17PCSE09 Cyber Security
Course 17PCSE10 Cloud Computing
Course 17PCSE11 Big Data Analytics
Course 17PCSE12 Social Computing

Elective Course -IV

Course 17PCSE13 Artificial Intelligence
Course 17PCSE14 Web Technologies
Course 17PCSE15 Software Engineering
Course 17PCSE16 Wireless Application Protocols



EDC-EXTRA DISCIPLINARY COURSE

Students are expected to opt EDC (Non major elective) offered by other departments.

1. 17PCSED1 - Principles of Information Technology
2. 17PCSED2 - Fundamentals of Computers and Communications
3. 17PCSED3 - E-Commerce

**CIA – CONTINUOUS INTERNAL
ASSESSMENT EA – EXTERNAL ASSESSMENT**

6. EXAMINATIONS

6.1 THEORY

6.1.1 EVALUATION OF CONTINUOUS INTERNAL ASSESSMENT

Test	:	10 Marks
Seminar	:	05 Marks
Assignment	:	05 Marks
Attendance	:	05 Marks

Total	:	25 Marks

(No passing minimum)

6.1.2 EVALUATION OF EXTERNAL ASSESSMENT QUESTION PAPER PATTERN

Time: 3 Hours

Max. Marks: 75

PART- A: 5x5 = 25 marks

Answer all the questions

One question from each unit (either or type)

PART- B: 5x10 = 50 marks

Answer all the questions

One question from each unit (either or type)

The Passing minimum shall be 50% out of 75 marks (38 marks)

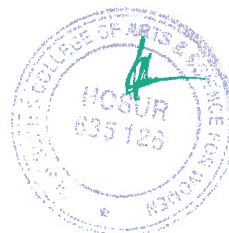
6.2 PRACTICAL / SOFTWARE DEVELOPMENT

6.2.1 EVALUATION OF CONTINUOUS INTERNAL ASSESSMENT

Test 1	:	15 Marks
Test 2	:	15 Marks
Record	:	10 Marks

Total	:	40 Marks

(No passing minimum)



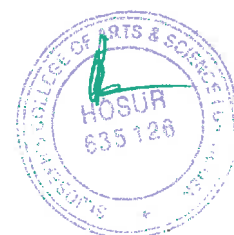
COURSE OF STUDY AND SCHEME OF EXAMINATION

Part	Paper Code	Subject Title	Hours		Credits	Marks			
			Lec t.	Lab		CIA	EA	Total	
SEMESTER I									
I	Core I	Tamil I	6	-	3	25	75	100	
II		English I	6	-	3	25	75	100	
II		Computer Applications for Automation	5	-	5	25	75	100	
III		Practical - I	Office Automation	-	4	4	40	60	100
III		Allied I		7	-	4	25	75	100
IV		Value Education	Yoga	2	-	2	25	75	100
			Total	26	4	21	165	435	600
SEMESTER II									
I	Core II	Tamil II	6	-	3	25	75	100	
II		English II	6	-	3	25	75	100	
III		C Programming	4	-	4	25	75	100	
III		Practical II	Programming in C	-	3	4	40	60	100
III		Allied II		4	-	3	25	75	100
III		Allied III		4	-	3	25	75	100
IV		SBEC - I	Internet and its Applications	1	1	2	25	75	100
IV		Environment Studies		1	-	2	25	75	100
			Total	26	4	24	215	585	800



Part	Paper Code	Subject Title	Hours		Credits	Marks		
			Lec t.	Lab		CIA	EA	Total
SEMESTER III								
III	Core III	Fundamentals of Digital Computers	5	-	4	25	75	100
II	Core IV	Structured System analysis and Design	5	-	4	25	75	100
III	Core V	Data Structures and Algorithms	5	-	4	25	75	100
III	Practical III	Data Structures using C	-	5	4	40	60	100
III	Allied I	Practical Lab - I (*)	5	-	4	25	75	100
III	Allied II		-	3	-			
IV	NMEC –I	Tamil/ Advanced Tamil (OR) Non –Major elective – I	2	-	2	25	75	100
	Total	22	8	22	165	435	600	
SEMESTER IV								
III	Core VI	Relational Database Management Systems	5	-	4	25	75	100
III	Core VII	Operating Systems	5	-	4	25	75	100
III	Core VIII	Object oriented Programming with C++	4	-	4	25	75	100
IV	Practical IV	Programming in C++	-	4	4	40	60	100
IV	Allied II	Practical Lab – I (*)	5	-	4	25	75	100
	Paper - II							
	Allied II	Practical Lab – I (*)	-	3	2	40	60	100
	Practical							
IV	SBEC - II :	HTML and Java Script	1	1	2	25	75	100
IV		Tamil/ Advanced Tamil (OR)	2	-	2	25	75	100
	NMEC - II	Non –Major elective – I						
	Total	22	8	26	230	570	800	

* Allied Practical Examination will be conducted at the end of even semester.



Part	Paper Code	Subject Title	Hours		Credits	Marks		
			Lec t.	Lab		CIA	EA	Total
SEMESTER V								
III	Core IX	Web Technologies	5	-	4	25	75	100
III	Core X	Problem solving techniques	5	-	4	25	75	100
III	Core XI	JAVA Programming	5	-	4	25	75	100
III	Elective – I		5	-	5	25	75	100
III	Practical V	Programming in Java	-	5	4	40	60	100
IV	SBEC - III	Practical - Image Editing Tool	-	3	2	40	60	100
IV	SBEC - IV	Multi skill Development	2	-	2	25	75	100
	Total	22	8	25	190	510	700	
SEMESTER VI								
III	Core XII	GUI Programming	5	-	4	25	75	100
III	Core XIII	Computer Networks	5	-	4	25	75	100
III	Elective – II		5	-	5	25	75	100
III	Elective – III		5	-	5	25	75	100
III	Practical VI	Programming in VB	-	5	4	40	60	100
IV	SBEC - V	Practical-Android Programming	-	3	2	40	60	100
IV	SBEC - VI	Shell Programming	2	-	2	25	75	100
V		Extension Activity	-	-	1	-	-	-
	Total	22	8	27	190	510	700	



ELECTIVE SUBJECTS**Elective – I**

Sem	Part	Subject Code	Subject
V	III	Paper I	E-Commerce Technologies
		Paper II	System Software
		Paper III	Computer Graphics

Elective – II

Sem	Part	Subject Code	Subject
VI	III	Paper I	Software Testing
		Paper II	Parallel Processing
		Paper III	Multimedia

Elective – III

Sem	Part	Subject Code	Subject
VI	III	Paper I	Data mining and Warehousing
		Paper II	Image Processing
		Paper III	Mobile Computing



SBEC – Skill Based Elective Courses*

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				a	b		CIA	EA	Total
IV	II		SBEC – I : Internet and its Applications	1	1	2	25	75	100
	IV		SBEC – II : HTML and JAVA Script	1	1	2	25	75	100
	V		SBEC – III : Practical-Image Editing Tool	-	3	2	40	60	100
	V		SBEC - IV : Multi Skill Development	3	-	2	25	75	100
	VI		SBEC - V : Practical-Android Programming	-	3	2	40	60	100
	VI		SBEC-VI : Shell Programming	2	-	2	25	75	100

Non Major Elective Course – (NMEC)

Extra Disciplinary Subjects offered by the Department of Computer Science The department can offer any one of the subjects to the other major subject students in each semester.

Part	Semester	Subject Code	Subject Title	Lect. Hours	Credits	Marks		
						CIA	EA	Total
IV	III		NMEC I: Basics of Computers	2	2	25	75	100
	III		NMEC I: System Administration and Maintenance	2	2	25	75	100
	IV		NMEC II: Office Automation	2	2	25	75	100
	IV		NMEC II: Basics of Internet	2	2	25	75	100



Allied Subjects for any Degree offered by the Department of Computer Science

SYLLABUS - CBCS PATTERN

EFFECTIVE FROM THE ACADEMIC YEAR 2017-2018

All Papers should be handled and valued by Computer Science Department only. For University practical examinations both Internal and External examiners should be appointed from Computer Science Department.

FIRST OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				Lect.	Lab		CIA	EA	Total
III	I/ II		Allied – I C Programming	4	-	2	25	75	100
	I/II		Allied Practical – I Programming in C	-	3	2	40	60	100
	II/IV		Allied – II C++ Programming	4	-	3	25	75	100
	II/IV		Allied Practical–II Programming in C++	-	3	2	40	60	100

SECOND OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
							CIA	EA	Total
III	I/ III		Allied – I Database Systems	4	-	3	25	75	100
	I/II		Allied Practical – I MS-Access	-	3	2	40	60	100
	II/IV		Allied II E–Commerce Techniques	4	-	3	25	75	100
	II/IV		Allied Practical – II HTML Programming	-	3	2	40	60	100



Allied Papers for B.Sc. Computer Science offered by other Departments
I - YEAR (Allied – I: First Option)

Part	Semester	Subject Code	Subject Title	Hours			Marks		
				Lect	Tut	Pr	CIA	EA	Total
III	I		Allied I : Paper-I: Algebra and Fourier series	6	-	4	25	75	100
	II		Allied I : Paper-II: Differential Equations and Laplace Transforms	4	-	3	25	75	100
	II		Allied I : – III : Practical	-	4	3	40	60	100

I - YEAR (Allied – I: Second Option)

Part	Semester	Subject Code	Subject Title	Hours			Marks		
				Lect	Tut	Pr	CIA	EA	Total
III	I		Allied I : Paper – I: Discrete Mathematics	6	-	4	25	75	100
	II		Allied I : Paper – II: Numerical Methods	4	-	3	25	75	100
	II		Allied I : Paper – III : Graph Theory	4	-	3	25	75	100

I-Year (Allied – I: Statistics –Third Option)

Part	Semester	Subject Code	Subject Title	Hours			Marks		
				Lect	Tut	Pr	CIA	EA	Total
III	I		Allied I :Paper-I: Allied Statistics –I	6	-	4	25	75	100
	II		Allied I :Paper-I: Allied Statistics –II	4	-	3	25	75	100
	II		Allied I :Paper-I: Allied Statistics –III (Practical)	4	-	3	25	75	100

THIRD OPTION (Allied Computer Science)
First Year / Second Year (Select any one of the Subject with Practical)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				Lect.	Lab		CIA	EA	Total
III	I/ III		Allied – I Computer Applications in Office	4	-	3	25	75	100
	I/II		Allied Practical – I Office Automation	-	3	2	40	60	100
	II/IV		Allied – II Image Editing Tool	4	-	3	25	75	100
	II/IV		Allied Practical–II Image Editing Software	-	3	2	40	60	100

FOURTH OPTION (Allied Computer Science)
First Year / Second Year (Select any one of the Subject with Practical)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
							CIA	EA	Total
III	I/ III		Allied – I PHP Scripting Language	4	-	3	25	75	100
	I/II		Allied Practical – I PHP Programming	-	3	2	40	60	100
	II/IV		Allied – II Basics of Computer and Financial Computing	4	-	3	25	75	100
	II/IV		Allied Practical – II Financial Computing Software	-	3	2	40	60	100



II - YEAR (Allied – II: COMMERCE -First Option)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				t	b		CIA	EA	Total
III	III		Allied II : Paper – I: Principles of Accounting	6	-	4	25	75	100
	IV		Allied II : Paper – II: Cost and Management Accounting	5	-	4	25	75	100
	III/IV		Allied II : Practical Lab -I: Allied Commerce Practical	2	-	2	40	60	100

II - YEAR (Allied – II: ELECTRONICS - Second Option)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				t	b		CIA	EA	Total
III	III		Allied II: Paper – I: Applied Electronics-I	6	-	4	25	75	100
	IV		Allied II: Paper – II: Applied Electronics-II	5	-	3	25	75	100
	III/IV		Allied II: Practical Lab -1: Allied Electronics Lab –I	-	2	2	40	60	100

II - YEAR (Allied – II: PHYSICS - Third Option)

Part	Semester	Subject Code	Subject Title	Hours		Credits	Marks		
				t	b		CIA	EA	Total
III	III		Allied II : Paper – I: Allied Physics – I	6	-	4	25	75	100
	IV		Allied II : Paper – II: Allied physics – II	4	-	3	25	75	100
	III/IV		Allied II : Practical Lab -I Allied Physics Practical	-	2	2	40	60	100

B Sc COMPUTER SCIENCE

SEM	PART	SUB CODE	SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
SEMESTER – IV									
IV	I	Language	Tamil - IV	6	-	3	25	75	100
	II	Language	English - IV	6	-	3	25	75	100
	III	Core V	Relational Database Management Systems	4	-	4	25	75	100
		Core	Practical - IV:RDBMS	-	3	4	40	60	100
	IV	Practical IV							
		Allied II	Paper - II	5	-	4	25	75	100
		Allied II	Practical Lab - I(*)	-	2	2	40	60	100
		Practical							
		SBEC - II	Internet and its Applications	1	1	2	25	75	100
NMEC - II	Tamil/ Advanced Tamil (OR)								
		Non -Major elective - II	2	-	2	25	75	100	
			Total	24	6	24	230	570	800
SEMESTER – V									
V	III	Core VI	GUI Programming	5	-	4	25	75	100
		Core VII	Operating Systems	5	-	4	25	75	100
		Core VIII	Computer Networks	5	-	4	25	75	100
		Elective - I		5	-	5	25	75	100
		Core	Programming in VB	-	5	4	40	60	100
	IV	Practical V							
		SBEC - III	Practical-Shell Programming	-	3	2	40	60	100
		SBEC - IV	Multi Skill Development	2	-	2	25	75	100
			Total	22	8	25	190	510	700
SEMESTER – VI									
VI	III	Core IX	Java Programming	5	-	4	25	75	100
		Core X	Software Engineering	5	-	4	25	75	100
		Elective-II		5	-	5	25	75	100
		Elective-III		5	-	5	25	75	100
		Core	Programming in Java	-	5	4	40	60	100
	IV	Practical VI							
		SBEC -V	Practical-Image Editing Tool		3	2	40	60	100
		SBEC -VI	PHP Scripting Language	2		2	25	75	100
V		Extension Activities	-	-	1				
			Total	22	8	27	190	510	700

Practical Examination should be conducted in the same semester



COURSE OF STUDY AND SCHEME OF EXAMINATION

SEM	PART	SUB CODE	TITLE OF THE SUBJECT	Hrs.		CRE DIT	MARKS			
				Lect.	Lab		CIA	EA	TOTAL	
SEMESTER – I										
I	I	Language	Tamil - I	6	-	3	25	75	100	
	II	Language	English - I	6	-	3	25	75	100	
	III	Core I	Digital Computer Fundamentals and Microprocessor	6	-	6	25	75	100	
		Core Practical I	Assembly Language Programming	-	4	4	40	60	100	
		Allied I	Paper - I	6	-	4	25	75	100	
	IV	Value Education		2	-	2	25	75	100	
				Total	26	4	22	165	435	600
SEMESTER – II										
II	I	Language	Tamil - II	6	-	3	25	75	100	
	II	Language	English - II	6	-	3	25	75	100	
	III	Core II	C Programming	4	-	4	25	75	100	
		Core Practical II	Programming in C		3	4	40	60	100	
		Allied I	Paper - II	4	-	3	25	75	100	
		Allied Practical I	Paper - III (Practical)	-	4	3	25	75	100	
		IV	SBEC - I	System Administration and Maintenance	1	1	2	25	75	100
			EVS	Environment Studies	1	-	2	25	75	100
				Total	22	8	24	215	585	800
	SEMESTER – III									
III	I	Language	Tamil - III	6	-	3	25	75	100	
	II	Language	English - III	6	-	3	25	75	100	
		Core III	Object Oriented Programming with C++	3	-	3	25	75	100	
		Core IV	Data Structures and Algorithms	4	-	4	25	75	100	
		Core Practical III	Practical - III :Programming in C++	-	3	4	40	60	100	
		Allied II	Paper - I	4	-	4	25	75	100	
		Allied Practical II	Practical Lab - I (*)	-	2	-	-	-	-	
		IV	NMEC - I	Tamil/ Advanced Tamil (or) Non -Major Elective Course - I	2	-	2	25	75	100
				Total	25	5	23	190	510	700



ELECTIVE SUBJECTS

SEM	PART	SUB CODE	SUBJECT
Elective - I			
V	III		Discrete Structures Multimedia Problem Solving Techniques
Elective - II			
VI	III		Data Mining and Warehousing Unified Modeling Language Web Technologies
Elective - III			
VI	III		Mobile Computing Computer Graphics Internetworking with TCP/IP

SBEC – Skill Based Elective Courses

SEM	PART	SUB CODE	SUBJECT	Hrs.		CRE DIT	MARKS		
				Lect.	Lab		CIA	EA	TOTAL
SEMESTER – IV									
IV	II		SBEC - I : System Administration and Maintenance	1	1	2	25	75	100
	IV		SBEC - II :Internet and its Applications	1	1	2	25	75	100
	V		SBEC -III :Practical-Shell Programming	-	3	2	40	60	100
	V		SBEC - IV : Multi Skill Development	2	-	2	25	75	100
	VI		SBEC - V:Practical-Image Editing Tool	-	3	2	40	60	100
	VI		SBEC-VI :PHP Scripting Language	2	-	2	25	75	100



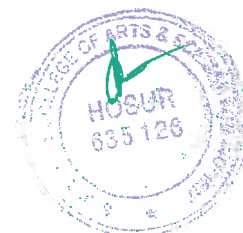
B Sc COMPUTER SCIENCE

Non Major Elective Course – (NMEC)

Extra Disciplinary Subjects offered by the Department of Computer Science

The department can offer any one of the subjects to the other major subject students in each semester.

PART	SEM	SUB CODE	SUBJECT	Lect. Hours	Credit	MARKS		
						CIA	EA	TOTAL
SEMESTER – IV								
IV	III		NMEC I: Basics of Computers	2	2	25	75	100
			NMEC I: System Administration and Maintenance	2	2	25	75	100
	IV		NMEC II: Office Automation	2	2	25	75	100
			NMEC II: Basics of Internet	2	2	25	75	100



Allied Subjects for any Degree offered by the Department of Computer Science

SYLLABUS - CBCS PATTERN EFFECTIVE FROM THE ACADEMIC YEAR 2017-2018

All Papers should be handled and valued by Computer Science Department only. For University practical examinations both Internal and External examiners should be appointed from Computer Science Department.

FIRST OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

SBEC – Skill Based Elective Courses

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper - I C Programming	4	-	3	25	75	100
		Allied Practical - I Programming in C	-	3	2	40	60	100
	II/IV	Allied Paper - II C++ Programming	4	-	3	25	75	100
		Allied Practical - II Programming in C++	-	3	2	40	60	100



B Sc COMPUTER SCIENCE

SECOND OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper - I Database Systems	4	-	3	25	75	100
		Allied Practical - I MS-Access	-	3	2	40	60	100
	II/IV	Allied Paper - II E - Commerce Techniques	4	-	3	25	75	100
		Allied Practical - II HTML Programming	-	3	2	40	60	100

THIRD OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper - I Computer Applications in Office	4	-	3	25	75	100
		Allied Practical - I Office Automation	-	3	2	40	60	100
	II/IV	Allied Paper - II Image Editing Tool	4	-	3	25	75	100
		Allied Practical - II Image Editing Software	-	3	2	40	60	100



FOURTH OPTION (Allied Computer Science)

First Year / Second Year (Select any one of the Subject with Practical)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied Paper - I PHP Scripting Language	4	-	3	25	75	100
		Allied Practical - I PHP Programming	-	3	2	40	60	100
	II/IV	Allied Paper - II Basics of Computer and Financial Computing	4	-	3	25	75	100
		Allied Practical - II Financial Computing Software	-	3	2	40	60	100

Allied Papers for B.Sc. Computer Science offered by other Departments

I - YEAR / II YEAR (Allied I / II - Mathematics Group -I)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/III	Paper - I: Allied Mathematics I	6	-	4	25	75	100
	II/IV	Paper - II: Allied Mathematics II	4	-	3	25	75	100
	II/IV	Paper - III : Allied Mathematics Practical	-	4	3	40	60	100



B Sc COMPUTER SCIENCE

I - YEAR / II YEAR (Allied I / II : MATHEMATICS GROUP - II)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/III	Allied : Paper - I: Discrete Mathematics	6	-	4	25	75	100
	II/IV	Allied : Paper - II: Numerical Methods	4	-	3	25	75	100
	II/IV	Allied : Paper - III : Graph Theory	4	-	3	25	75	100

I / II YEAR (Allied – I / II : STATISTICS)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I /III	Allied : Paper - I: Statistical Mehtods	6	-	4	25	75	100
	II/IV	Allied : Paper - II: Applied Statistics	4	-	3	25	75	100
	II/IV	Allied Statistics-III (Practical) (Based on Allied theory paper I and II)	-	4	3	40	60	100

II - YEAR (Allied – II: COMMERCE)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/III	Allied I : Paper - I: 0 Principles of Accounting	6	-	4	25	75	100
	II/IV	Allied I : Paper - II: Cost and Management Accounting	5	-	4	25	75	100
	II/IV	Allied Commerce Practical	-	2	2	40	60	100



I YEAR / II YEAR (Allied I / II: ELECTRONICS)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/ III	Allied I : Paper - I : Appied Electronics - I	6	-	4	25	75	100
	II/IV	Allied I : Paper - II : Appied Electronics - II	5	-	4	25	75	100
	II/IV	Allied II : Practical Lab - I : Allied Electronics Practical	-	2	2	40	60	100

I YEAR / II YEAR (Allied I / II: PHYSICS)

PART	SEMESTER	SUBJECT	Hrs.		CRE DIT	MARKS		
			Lect.	Lab		CIA	EA	TOTAL
III	I/ III	Allied I : Paper - I : Allied Physics - I	6	-	4	25	75	100
	II/IV	Allied I : Paper - II : Allied Physics - II	5	-	4	25	75	100
	II/IV	Allied II : Practical Lab - I : Allied Physics Practical	-	2	2	40	60	100



COURSE OF STUDY AND SCHEME OF EXAMINATION

Part	Paper Code	Subject Title	Hours			Credits	Exam Hrs.	Marks		
			Lect.	Prac.	I			CIA	EA	Total
SEMESTER I										
I	Language	Tamil – I	6	-	6	3	3	25	75	100
II	Language	English – I	6	-	6	3	3	25	75	100
III	Core-I	Classical Algebra	5	-	5	4	3	25	75	100
III	Core-II	Differential Calculus	4	-	4	4	3	25	75	100
	Allied I		5	-	5	4	3	25	75	100
	Allied I	Practical	-	2	2	-	*	-	-	-
IV	Value Education	Yoga	2	-	2	2	3	25	75	100
SEMESTER II										
I	Language	Language/ Tamil – I I	6	-	6	3	3	25	75	100
II	Language	English – II	6	-	6	3	3	25	75	100
III	Core -III	Integral Calculus	5	-	5	4	3	25	75	100
III	Core -IV	Vector Analysis	4	-	4	4	3	25	75	100
	Allied II		5	-	5	3	3	25	75	100
	Allied II	Practical	-	2	2	3	3	40	60	-
IV	EVS	Environmental Studies	2	-	2	2	3	25	75	100



B.Sc. MATHEMATICS - (17-18)

Part	Paper Code	Subject Title	Hours			Credits	Exam Hrs.	Marks		
			Lect.	Prac.	Total			CIA	EA	Total
SEMESTER III										
I	Language	Language/ Tamil – III	6	-	6	3	3	25	75	100
II	Language	English – III	6	-	6	3	3	25	75	100
III	Core V	Statics	4	-	4	3	3	25	75	100
	Core VI	Core- VI Differential Equations and Laplace Transforms	3	-	3	3	3	25	75	100
	Allied II	Paper I	5	-	5	4	3	25	75	100
	Allied Practical II	Paper-III (Practical)	-	2	2	-	**	-	-	-
IV	SBEC-I	Office Automation Practical	-	2	2	2	3	40	60	100
	NMEC-I		2	-	2	2	3	25	75	100
SEMESTER IV										
I	Language	Language/ Tamil – IV	6	-	6	3	3	25	75	100
II	Language	English – IV	6	-	6	3	3	25	75	100
III	Core VII	Dynamics	4	-	4	3	3	25	75	100
III	Core VIII	Trigonometry and Analytical Geometry of 3D	3	-	3	3	3	25	75	100
	Allied II	Paper-II (Theory)	5	-	5	3	3	25	75	100
	Allied II	Paper-III (Practical)	-	2	2	3	3	40	60	100
IV	NMEC-II		2	-	2	2	3	25	75	100
	SBEC II	Quantitative Aptitude	2	-	2	2	3	25	75	100



PERIYAR UNIVERSITY

Part	Paper Code	Subject Title	Hours			Credits	Exam Hrs.	Marks		
			Lect.	Prac.	Lab			CIA	EA	Total
SEMESTER V										
III	Core IX	Modern Algebra-I	5	-	5	5	3	25	75	100
	Core X	Real Analysis-I	6	-	6	4	3	25	75	100
	Core XI	Complex Analysis-I	5	-	5	4	3	25	75	100
	Elective I Group A		5	-	5	5	3	25	75	100
	Elective II Group B		5	-	5	5	3	25	75	100
IV	SBEC- III	C Programming (Theory)	2	-	2	2	3	25	75	100
	SBEC- IV	C Programming (Practical)	-	2	2	2	3	40	60	100
SEMESTER VI										
III	Core XII	Modern Algebra- II	5	-	5	5	3	25	75	100
	Core XIII	Real Analysis -II	6	-	6	5	3	25	75	100
	Core XIV	Complex Analysis -II	5	-	5	4	3	25	75	100
	Core XV	Graph Theory	5	-	5	5	3	25	75	100
	Elective III Group C		5	-	5	5	3	25	75	100
IV	SBEC -V	Latex Theory	2	-	2	2	3	25	75	100
	SBEC –III	Latex Practical	-	2	2	2	3	40	60	100
		Extension Activity	-	-	-	1	***	-	-	***
		Total				140				4200

- Syllabus and Question paper are same for Bsc., Maths & Bsc., Maths (CA). The exam to be conducted on the same day

* - Examination at the end of Second Semester.

** - Examination at the end of Fourth Semester.

*** - No Examination – Participation in NCC / NSS / RRC / YRC / Others if any.



B.Sc. MATHEMATICS

ALLIED SUBJECTS FOR B.Sc. MATHEMATICS:

Any two of the following subjects (Physics / Chemistry / Statistics / Electronics / Accountancy) can be chosen as Allied Subjects.

NAME OF THE COURSE	PAPER CODE
Allied Physics – I	
Allied Physics – II	
Allied Physics – Practical	
Allied Chemistry – I	
Allied Chemistry – II	
Allied Chemistry – Practical	
Allied Statistics – I	
Allied Statistics – II	
Allied Statistics – Practical	
Allied Electronics – I	
Allied Electronics – II	
Allied Electronics – Practical	
Allied Accountancy – I	
Allied Accountancy – II	
Allied Accountancy – Practical	



ELECTIVE COURSES:

Select one paper from Group –A for Elective Course-I and one paper from Group –B for Elective Course II and one paper from Group - C for Elective Course III.

TABLE 1

NAME OF THE COURSE	PAPER CODE
Group A:	
Operations Research	
Astronomy	
Group B:	
Discrete Mathematics	
Number Theory	
Group C:	
Numerical Analysis	
Java Programming	

SKILL BASED ELECTIVE COURSE:

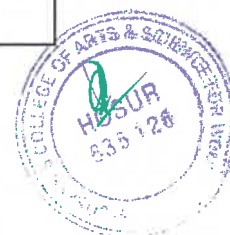
NAME OF THE COURSE	PAPER CODE
Office Automation	
Quantitative Aptitude Examination	
Programming Theory	
Programming Practical	
Latex Theory	
Latex Practical	

ALLIED MATHEMATICS

Note: Select either Group – I or Group - II

ALLIED MATHEMATICS – GROUP I

NAME OF THE COURSE	PAPER CODE
Paper I: Allied Mathematics – I	
Paper II: Allied Mathematics – II	
Paper III: Allied Mathematics – Practical	



B.Sc. MATHEMATICS

ALLIED MATHEMATICS – GROUP II

NAME OF THE COURSE	PAPER CODE
Paper I – Discrete Mathematics	
Paper II – Numerical Method	
Paper III – Graph Theory	

NON – MAJOR ELECTIVE COURSES:

Non – Major Elective Course –I (III- SEMESTER)	PAPER CODE
1.Quantitative Aptitude – I	
2.Matrix Algebra	
3.Linear Programming	
Non – Major Elective Course– II (IV- SEMESTER)	
1.Quantitative Aptitude – II	
2.Numerical Methods	
3.Operations Research	

UNIFORMITY IN THE NUMBER OF UNITS IN EACH PAPER:

Each theory paper shall consist of five units. The Question paper shall consist of questions uniformly distributed among all the units.

1. QUESTION PAPER PATTERN FOR THE THEORY PAPERS

Duration: Three Hours

Maximum Marks: 75

Part A: (10 X 2 = 20 marks)

Answer ALL Questions

(Two Questions from Each Unit)

Part B: (5 X 5 = 25 marks)

Answer ALL Questions

(One Question from Each Unit with internal choice)

Part C: (3 X 10 = 30 marks) Answer Any THREE Questions out of Five Questions (One Question from Each Unit)

2. MARKS AND QUESTION PAPER PATTERN FOR PRACTICALS

MAXIMUM:100 Marks

INTERNAL MARK: 40 marks

EXTERNAL MARK: 60 marks

(Practical Exam -45 marks + Record - 15 marks)

QUESTION PATTERN FOR THE PRACTICAL EXAM PAPERS

Answer any THREE questions out of 5 questions (3 x 15 = 45 marks)



B.Sc 21-22

COURSE OF STUDY AND SCHEME OF EXAMINATION

PART	Paper Code	SUBJECT TITLE	HOURS			Credit	Exam Hours	MARKS		
			Lecture	Practical	Total			CIA	EA	Total
SEMESTER – I										
I	Language	Tamil -I	6	-	6	3	3	25	75	100
II	Language	English - I	6	-	6	3	3	25	75	100
III	21UMA01 / 21UMACA01	Core I – Classical Algebra	4	-	4	4	3	25	75	100
III	21UMA02 / 21UMACA02	Core II – Calculus	5	-	5	5	3	25	75	100
III		Professional English for Sciences - I	6	-	6	4	3	25	75	100
III	Allied – I	Paper I	5	-	5	4	3	25	75	100
III	Allied – I	Practical	-	2	2	-	*	-	-	-
IV	Value Education	Yoga	2	-	2	-	3	25	75	100
SEMESTER – II										
I	Language	Tamil- II	6	-	6	3	3	25	75	100
II	Language	English - II	6	-	6	3	3	25	75	100
III	21UMA03 / 21UMACA03	Core III – Analytical Geometry of 2D & 3D	4	-	4	4	3	25	75	100
III	21UMA04 / 21UMACA04	Core IV – Trigonometry and Vector Analysis	5	-	5	5	3	25	75	100
III		Professional English for Sciences - II	6	-	6	4	3	25	75	100
III	Allied - I	Paper II	5	-	5	3	3	25	75	100
III	Allied - I	Practical	-	2	2	3	3	40	60	100
IV	EVS	Environmental Studies	2	-	2	-	3	25	75	100
SEMESTER – III										
I	Language	Tamil - III	6	-	6	3	3	25	75	100
II	Language	English - III	6	-	6	3	3	25	75	100
III	21UMA05 / 21UMACA05	Core V – Number Theory	3	-	3	3	3	25	75	100
III	21UMA06 / 21UMACA06	Core VI – Differential Equations	3	-	3	3	3	25	75	100
III	Allied - II	Paper - I	5	-	5	4	3	25	75	100
III	Allied - II	Practical		2	2	-	**		-	-
IV	21UMAS01 / 21UMACAS01	SBEC I – Financial Mathematics	3	-	3	3	3	25	75	100

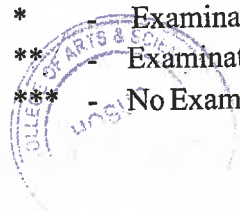
IV	NMEC- I		2	-	2	2	3	25	75	100
SEMESTER – IV										
I	Language	Tamil - IV	6	-	6	3	3	25	75	100
II	Language	English - IV	6	-	6	3	3	25	75	100
III	21UMA07	Core VII – Laplace Transforms & Fourier Series	3	-	3	3	3	25	75	100
III	21UMA08	Core VIII – Numerical Methods	3	-	3	3	3	25	75	100
III	Allied – II	Paper - II	5	-	5	3	3	25	75	100
III	Allied – II	Practical	-	2	2	3	3	40	60	100
IV	21UMASP02	SBEC II – Latex - Practical	-	3	3	3	3	40	60	100
IV	NMEC- II		2	-	2	2	3	25	75	100
SEMESTER – V										
III	21UMA09 / 21UMACA09	Core IX – Modern Algebra	6	-	6	5	3	25	75	100
III	21UMA10 / 21UMACA10	Core X – Real Analysis - I	6	-	6	5	3	25	75	100
III	21UMA11 / 21UMACA11	Core XI – Operations Research	5	-	5	5	3	25	75	100
III	21UMA12 / 21UMACA12	Core XII – Mechanics	6	-	6	5	3	25	75	100
III	Elective - I Group A		4	-	4	4	3	25	75	100
IV	21UMAS03	SBEC III – C - Programming (Theory)	3	-	3	3	3	25	75	100
SEMESTER – VI										
III	21UMA13 / 21UMACA13	Core XIII – Linear Algebra	6	-	6	5	3	25	75	100
III	21UMA14 / 21UMACA14	Core XIV – Real Analysis – II	6	-	6	6	3	25	75	100
III	21UMA15 / 21UMACA15	Core XV – Complex Analysis	6	-	6	5	3	25	75	100
III	21UMA16 / 21UMACA16	Core XVI – Graph Theory	5	-	5	5	3	25	75	100
III	Elective - II Group B		4	-	4	4	3	25	75	100
IV	21UMASP04	SBEC IV – Office Automation (Practical)	-	3	3	3	3	40	60	100
		Extension Activity	-	-	-	1	***	-	-	***

- Syllabus and Question paper are same for Bsc., Maths & Bsc., Maths (CA). The exam should be conducted on the same day

* Examination at the end of Second Semester.

** Examination at the end of Fourth Semester.

*** - No Examination – Participation in NCC/NSS/RRC/YRC/Others if any.



ALLIED SUBJECTS FOR B.Sc. MATHEMATICS:

Any two of the following subjects (Physics / Chemistry / Statistics) can be chosen as Allied Subjects.

NAME OF THE COURSE	PAPER CODE
Allied Physics – I	
Allied Physics – II	
Allied Physics – Practical	
Allied Chemistry – I	
Allied Chemistry – II	
Allied Chemistry – Practical	
Allied Statistics – I	
Allied Statistics – II	
Allied Statistics – Practical	

ELECTIVE COURSES:

Select one paper from Group – A for Elective Course-I and one paper from Group – B for Elective Course II.

TABLE 1

NAME OF THE COURSE	PAPER CODE
Group A:	
Discrete Mathematics	21UMAE01
Astronomy	21UMAE02
Java Programming	21UMAE03
Group B:	
Fuzzy Sets and Fuzzy Logic	21UMAE04
Formal Languages and Automata Theory	21UMAE05
C++ Programming	21UMAE06



SKILL BASED ELECTIVE COURSE:

NAME OF THE COURSE	PAPER CODE
Financial Mathematics	21UMAS01
Latex (Practical)	21UMASP02
C Programming (Theory)	21UMAS03
Office Automation (Practical)	21UMASP04

ALLIED MATHEMATICS

NAME OF THE COURSE	PAPER CODE
Paper I: Allied Mathematics – I	21UMAA01
Paper II: Allied Mathematics – II	21UMAA02
Paper III: Allied Mathematics – Practical	21UMAAP01

NON – MAJOR ELECTIVE COURSES:

Non – Major Elective Course – I III Semester	PAPER CODE
Quantitative Aptitude – I	21UMAN01
Linear Programming	21UMAN02
Non – Major Elective Course – II IV Semester	
Quantitative Aptitude – II	21UMAN03
Numerical Methods	21UMAN04



SEMESTER IV							
20	23PMACO11	Functional Analysis	6	25	75	100	5
21	23PMACO12	Differential Geometry	6	25	75	100	5
22	ELECTIVE –VI	From Group ‘F’	4	25	75	100	3
23	23PMAPR01	Core Project with viva – voce	10	25	75	100	7
24	SEC	From Group ‘G’	4	25	75	100	2
25		Extension Activity	-				1
TOTAL			120			2300	93



ELECTIVE COURSES

Courses are grouped (Group A to Group F) so as to include topics from Pure Mathematics(PM), Applied Mathematics(AM), Industrial Components(IC) and IT Oriented(ITC) courses for flexibility of choice by the stakeholders / institutions.

Semester I : Elective I and Elective II

Elective I to be chosen from Group A and **Elective II** to be chosen from Group B

Group A: (PM/AP/IC/ITC)

- | | |
|---|-----------|
| 1. Number Theory and Cryptography | -23PMAE11 |
| 2. Graph Theory and Applications | -23PMAE12 |
| 3. Formal Languages and Automata Theory | -23PMAE13 |
| 4. Programming in C++ and Numerical Methods | -23PMAE14 |

Group B:(PM/AP/IC/ITC)

- | | |
|--------------------------------------|-----------|
| 1. Lie Groups and Lie Algebras | -23PMAE15 |
| 2. Mathematical Programming | -23PMAE16 |
| 3. Fuzzy Sets and Their Applications | -23PMAE17 |
| 4. Discrete Mathematics | -23PMAE18 |

Elective III to be chosen from **Group C** and **Elective IV** to be chosen from **Group D**

Group C:(PM/AP/IC/ITC)

- | | |
|--|-----------|
| 1. Algebraic Topology | -23PMAE21 |
| 2. Mathematical Statistics | -23PMAE22 |
| 3. Statistical Data Analysis using R Programming | -23PMAE23 |
| 4. Tensor Analysis and Relativity | -23PMAE24 |

Group D :(PM/AP/IC/ITC)

- | | |
|---|-----------|
| 1. Wavelets | -23PMAE25 |
| 2. Modelling and Simulation with Excel | -23PMAE26 |
| 3. Machine Learning and Artificial Intelligence | -23PMAE27 |
| 4. Neural Networks | -23PMAE28 |

Semester III : Elective V

Elective V to be chosen from Group E.

Group E: (PM/AP/IC/ITC)

- | | |
|----------------------------|-----------|
| 1. Algebraic Number Theory | -23PMAE31 |
| 2. Fluid Dynamics | -23PMAE32 |
| 3. Stochastic Processes | -23PMAE33 |
| 4. Mathematical Python | -23PMAE34 |



Semester IV : Elective VI

Elective VI to be chosen from Group F.

Group F:(PM/AP/IC/ITC)

- | | |
|-----------------------------------|-----------|
| 1. Algebraic Geometry | -23PMAE41 |
| 2. Financial Mathematics | -23PMAE42 |
| 3. Resource Management Techniques | -23PMAE43 |
| 4. Mathematical Python | -23PMAE44 |

SKILL ENHANCEMENT COURSES

Skill Enhancement Courses are chosen so as to keep in pace with the latest developments in the academic / industrial front and provides flexibility of choice by the stakeholders / institutions.

Group G (Skill Enhancement Courses) SEC:

- | | |
|---|-------------|
| 1. Computational Mathematics using SageMath | -23PMASEC01 |
| 2. Mathematical documentation using LATEX / other packages | -23PMASEC02 |
| 3. Office Automation and ICT Tools | -23PMASEC03 |
| 4. Numerical analysis using SCILAB | -23PMASEC04 |
| 5. Differential equations using SCILAB | -23PMASEC05 |
| 6. Industrial Mathematics /Statistics using latest programming packages | -23PMASEC06 |
| 7. Research Tools and Techniques | -23PMASEC07 |

EXTRA DISCIPLINARY COURSES FOR OTHER DEPARTMENTS (NOT FOR MATHEMATICS STUDENTS)

Students from other Departments may also choose any one of the following as Extra Disciplinary Course.

ED-I: Mathematics for Life Sciences

ED-II: Mathematics for Social Sciences

ED-III: Statistics for Life and Social Sciences

ED-IV: Game Theory and Strategy

ED-V: History of Mathematics



23-24

6. B. Sc Mathematics Curriculum Design

First Year Semester-I

Part	Subject Code	List of Courses	Credit	Hours per week (L/T/P)
Part-I		Tamil-I	3	6
Part-II		English-I	3	6
Part-III	23UMACT01	Algebra & Trigonometry	4	4
	23UMACT02	Differential Calculus	4	4
	Elective Course-1	Paper-I	5	6
Part-IV		Skill Enhancement Course (SEC-1) (Non Major Elective) Mathematics For Competitive Examinations-I	2	2
	Foundation Course FC 23UMAF01	Bridge Mathematics	2	2
			23	30

Semester-II

Part	Subject Code	List of Courses	Credit	Hours per week (L/T/P)
Part-I		Tamil-II	3	6
Part-II		English-II	3	6
Part-III	23UMACT03	Analytical Geometry (Two & Three Dimensions)	4	4
	23UMACT04	Integral Calculus	4	4
	Elective Course-1	Paper-II	5	6
Part-IV		Skill Enhancement Course (SEC-2) (Non Major Elective) Mathematics For Competitive Examinations-II	2	2
	23UMASE03	Skill Enhancement Course (SEC-3) Computational Mathematics	2	2
			23	30



Second Year Semester-III

Part	Subject Code	List of Courses	Credit	Hours per week (L/T/P)
Part-I		Tamil-III	3	6
Part-II		English - III	3	6
Part-III	23UMACT05	Vector Calculus and its Applications	4	4
	23UMACT06	Differential Equations and its Applications	4	4
	Elective Course- 2	Paper-I	5	6
Part-IV	23UMASE04	Skill Enhancement Course (Entrepreneurial Based) (SEC-4) Statistics with Excel Programming	1	1
	23UMASE05	Skill Enhancement Course (SEC-5) Mathematics For Competitive Examinations-III	2	2
		Environmental Studies	-	1
			22	30

Semester-IV

Part	Subject Code	List of Courses	Credit	Hours per week (L/T/P)
Part-I		Tamil-IV	3	6
Part-II		English-IV	3	6
Part-III	23UMACT07	Industrial Statistics	3	3
	23UMACT08	Elements of Mathematical Analysis	4	4
	Elective Course- 2	Paper-II	5	6
Part-IV	23UMASE06	Skill Enhancement Course (SEC-6) Mathematics For Competitive Examinations-IV	2	2
	23UMASE07	Skill Enhancement Course (SEC-7) LaTeX Practical	2	2
		Environmental Studies	2	1
			25	30

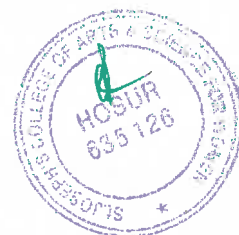


Third Year Semester-V

Part	Subject Code	List of Courses	Credit	Hours per week (L/T/P)
Part-III	23UMACT09	Abstract Algebra	4	5
	23UMACT10	Real Analysis	4	5
	23UMACT11	Mathematical Modelling	4	4
	23UMACT12	Optimization Techniques	4	4
		Elective Course – I (From Group-I)	3	5
		Elective Course – II (From Group-II)	3	5
Part-IV		Value Education Yoga	2	2
		Internship / Industrial Training (Summer vacation at the end of IV semester activity)	2	-
			26	30

Semester-VI

Part	Subject Code	List of Courses	Credit	Hours per week (L/T/P)
Part-III	23UMACT13	Linear Algebra	4	6
	23UMACT14	Complex Analysis	4	6
	23UMACT15	Mechanics	4	6
		Elective Course – III (From Group-I)	3	5
		Elective Course – IV (From Group-II)	3	5
Part-IV	23UMAPC01	Professional Competency Skill - Statistics with R Programming	2	2
		Extension Activity **	1	-
			21	30



Elective Course for the I year B. Sc Mathematics:

Name of the course	Paper Code
Paper I- Allied Physics -I & Practical-I	
Paper II- Allied Physics -II & Practical - II	
Paper I- C Programming Language & Practical	
Paper II- C Programming Language& Practical	

Elective Course for the II year B. Sc Mathematics:

Name of the course	Paper Code
Paper I- Allied Chemistry-I & Practical-I	
Paper II- Allied Chemistry-II & Practical-II	
Paper I- Statistical Methods	
Paper II- Statistical Methods	
Paper III- Statistical Methods Practical	

Elective Course for the III year B. Sc Mathematics: Group-I

Name of the course	Paper Code
Numerical Methods with Applications	23UMAME01
Number Theory	23UMAME02
Mathematical Statistics	23UMAME03

Elective Course for the III year B. Sc Mathematics: Group-II

Name of the course	Paper Code
Difference Equations with Applications	23UMAME04
Discrete Mathematics	23UMAME05
Graph Theory with Applications	23UMAME06

Elective/Allied Mathematics

Name of the course	Paper Code
Paper I- Allied Mathematics-I	23UMAAT01
Paper II- Allied Mathematics-II	23UMAAT02
Allied Mathematics-Practical *	23UMAAP01

* Examination at the end of the II-Semester.

** No Examination-Participation in NCC/NSS/RRC/YRC/Others if any



COURSE OF STUDY AND SCHEME OF EXAMINATION

S.No.	Subject	Subject Title	Hours	University Examination			Credits
				Internal (25%)	External (75%)	Total	
SEMESTER I							
1	Core I	LINEAR ALGEBRA	6	25	75	100	5
2	Core II	REAL ANALYSIS – I	6	25	75	100	5
3	Core III	ORDINARY DIFFERENTIAL EQUATIONS	6	25	75	100	5
4	Core IV	MECHANICS	6	25	75	100	4
5	Elective I	FROM GROUP – A	6	25	75	100	4
SEMESTER II							
6	Core V	ABSTRACT ALGEBRA	6	25	75	100	5
7	Core VI	REAL ANALYSIS – II	6	25	75	100	5
8	Core VII	PARTIAL DIFFERENTIAL EQUATIONS	5	25	75	100	4
9	Elective II	FROM GROUP – B	5	25	75	100	4
10	EDC – I	FROM THE LIST	4	25	75	100	3
11	Common Paper	HUMAN RIGHTS	2	25	75	100	-
12	Add on Courses	Internship training			-	-	-



M.Sc. MATHEMATICS

SEMESTER III

S.No.	Paper Code	Subject Title	Hours	University Examination			Credits
				Internal (25%)	External (75%)	Total	
13	Core VIII	COMPLEX ANALYSIS	6	25	75	100	5
14	Core IX	TOPOLOGY	6	25	75	100	5
15	Core X	MEASURE THEORY AND INTEGRATION	6	25	75	100	5
16	Core XI	GRAPH THEORY	6	25	75	100	4
17	Elective III	FROM GROUP – C	6	25	75	100	4

SEMESTER IV

18	Core XII	FUNCTIONAL ANALYSIS	6	25	75	100	5
19	Core XIII	PROBABILITY THEORY	6	25	75	100	5
20	Core XIV	CALCULUS OF VARIATION AND INTEGRAL CALCULATIONS	6	25	75	100	4
21	Core XV	PROJECT	6	-	100	100	5
22	Elective IV	FROM GROUP – D (Theory Paper or Practical Paper) T-Theory Paper ; P-Practical Paper.	T-6 P-6	T-25 P-40	T-75 P-60	100	T-4 P-4
TOTAL			120	-	-	2100	90



(i) List of Elective Courses:

Semester / Elective Course	Paper Code	Paper Title
	GROUP A	
I	Paper I Paper II	Discrete Mathematics Combinatorial Mathematics
	GROUP B	
II	Paper I Paper II	Numerical Analysis Difference Equations
	GROUP C	
III	Paper I Paper II Paper III	Differential Geometry Fluid Dynamics Programming with C++
	GROUP D	
IV	Paper I Paper II Practical	Number Theory (T) Optimization techniques (T) C++ Programming Lab (P)

(ii) List of Extra Disciplinary Courses (EDC): (This course is meant for other PG department students)

S. No.	PAPER CODE	PAPER TITLE
1	Paper I	Numerical & Statistical Methods
2	Paper II	Statistics

M.Sc. MATHEMATICS

(iii)List of Add on Courses (AOC):

S. No.	PAPER CODE	PAPER TITLE
1	Paper I	Advanced LaTeX
2	Paper II	Python
3	Paper III	Artificial Intelligence



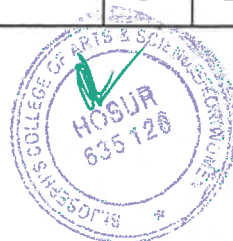
M.Sc. MATHEMATICS

S.No.	Paper Code	Subject Title	Hours	University Examination			Credits
				Internal (25%)	External (75%)	Total	
SEMESTER III							
12	Core VIII	PARTIAL DIFFERENTIAL EQUATIONS	6	25	75	100	5
13	Core IX	TOPOLOGY	6	25	75	100	5
14	Core X	MEASURE THEORY AND INTEGRATION	6	25	75	100	5
15	Core XI	CALCULUS OF VARIATIONS AND INTEGRAL EQUATIONS	6	40	60	100	4
16	Elective III	FROM GROUP - C	6	25	75	100	4
SEMESTER IV							
17	Core XII	FUNCTIONAL ANALYSIS	6	25	75	100	5
18	Core XIII	PROBABILITY THEORY	6	25	75	100	4
19	Core XIV	GRAPH THEORY	6	25	75	100	5
20	Elective IV	FROM GROUP – D (Theory Paper or Practical Paper) T-Theory Paper ; P-Practical Paper.	T-6 P-6	T-25 P-40	T-75 P-60	100	T-4 P-4
21	Core XV	PROJECT	6	-	100	100	5
22		TOTAL	120	--	--	2100	92



COURSE OF STUDY AND SCHEME OF EXAMINATION

S.No.	Subject	Subject Title	Hours	University Examination			Credits
				Internal (25%)	External (75%)	Total	
SEMESTER I							
1	Core I	LINEAR ALGEBRA	6	25	75	100	5
2	Core II	REAL ANALYSIS	6	25	75	100	5
3	Core III	MECHANICS	6	25	75	100	4
4	Core IV	ORDINARY DIFFERENTIAL EQUATIONS	6	40	60	100	4
5	Elective I	FROM GROUP - A	6	25	75	100	4
SEMESTER II							
6	Core V	ALGEBRA	6	25	75	100	5
7	Core VI	FLUID DYNAMICS	6	25	75	100	5
8	Core VII	COMPLEX ANALYSIS	6	25	75	100	4
9	Common Paper	HUMAN RIGHTS	2	-	75	100	2
10	EDC - I	FROM THE LIST	4	25	75	100	4
11	Elective II	FROM GROUP - B	6	25	75	100	4



(i) List of Elective Courses:

Semester / Elective Course	Paper Code	Paper Title
GROUP A		
I	Paper I Paper II	Numerical Analysis Difference Equations
GROUP B		
II	Paper I Paper II	Discrete Mathematics Combinatorial Mathematics
GROUP C		
III	Paper I Paper II	Differential Geometry Programming with C++
GROUP D		
IV	Paper I Paper II Practical	Number Theory (T) Optimization techniques (T) C++ Programming Lab (P)

(ii) List of Extra Disciplinary Courses (EDC):

S. No.	PAPER CODE	PAPER TITLE
1	Paper I	Numerical & Statistical Methods
2	Paper II	Statistics

