



SENGUNTHAR ARTS AND SCIENCE COLLEGE

(AFFILIATED TO PERIYAR UNIVERSITY, SALEM AND APPROVED BY AICTE, NEW DELHI)
AN ISO 9001:2015 CERTIFIED INSTITUTION
RECOGNISED UNDER SECTION 2(F) AND 12(B) OF UGC ACT 1956 AND ACCREDITED BY NAAC
TIRUCHENGODE - 637205



CRITERION 1 – CURRICULAR ASPECTS

1.1 Curricular Planning and Implementation

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CALENDAR
FOR THE
ACADEMIC
YEAR
2021-2022



CALENDAR 2021- 2022

Day & Date	June	Time Table Code	No. Of Working Days
TUE - 1			
WED - 2			
THU -3			
FRI -4			
SAT -5	HOLIDAY		
SUN - 6	HOLIDAY		
MON - 7			
TUE - 8			
WED - 9	College Reopen (Odd Sem)	I	1
THU -10		II	2
FRI - 11		III	3
SAT -12	HOLIDAY		
SUN -13	HOLIDAY		
MON - 14		IV	4
TUE - 15		V	5

CALENDAR 2021- 2022

Day & Date	June	Time Table Code	No. Of Working Days
WED - 16		VI	6
THU - 17		I	7
FRI - 18		II	8
SAT - 19	HOLIDAY		
SUN - 20	HOLIDAY		
MON - 21		III	9
TUE - 22		IV	10
WED - 23		V	11
THU - 24	பெளர்ணமி கவியரங்கம்	VI	12
FRI - 25		I	13
SAT - 26	HOLIDAY		
SUN - 27	HOLIDAY		
MON - 28		II	14
TUE - 29		III	15
WED - 30		IV	16

CALENDAR 2021 -2022

Day & Date	JULY	Time Table Code	No. Of Working Days
THU - 1		V	17
FRI -2		VI	18
SAT -3	HOLIDAY		
SUN - 4	HOLIDAY		
MON -5	1 st Monthly Test	I	19
TUE - 6	1 st Monthly Test	II	20
WED -7	1 st Monthly Test	III	21
THU -8	1 st Monthly Test	IV	22
FRI - 9	1 st Monthly Test	V	23
SAT -10	HOLIDAY		
SUN - 11	HOLIDAY		
MON - 12		VI	24
TUE - 13		I	25
WED - 14		II	26
THU - 15		III	27

CALENDAR 2021- 2022

Day & Date	JULY	Time Table Code	No. Of Working Days
FRI -16		IV	28
SAT - 17	HOLIDAY		
SUN - 18	HOLIDAY		
MON - 19		V	29
TUE - 20		VI	30
WED - 21	Holiday - BAKRID		
THU -22		I	31
FRI - 23	பெள்ளுணமி கவியரங்கம்	II	32
SAT - 24	HOLIDAY		
SUN - 25	HOLIDAY		
MON - 26		III	33
TUE - 27		IV	34
WED - 28		V	35
THU -29		VI	36
FRI - 30		I	37
SAT - 31	HOLIDAY		

CALENDAR 2021- 2022

Day & Date	AUGUST	Time Table Code	No. Of Working Days
SUN – 1	HOLIDAY		
MON - 2		II	38
TUE - 3		III	39
WED - 4		IV	40
THU - 5		V	41
FRI -6		VI	42
SAT –7	HOLIDAY		
SUN - 8	HOLIDAY		
MON - 9		I	43
TUE – 10		II	44
WED – 11		III	45
THU -12		IV	46
FRI – 13		V	47
SAT -14	HOLIDAY		
SUN - 15	Holiday – Independence Day		

CALENDAR 2021- 2022

Day & Date	AUGUST	Time Table Code	No. Of Working Days
MON – 16		VI	48
TUE – 17		I	49
WED – 18		II	50
THU – 19		III	51
FRI -20	Holiday - MOHARAM		
SAT – 21	HOLIDAY		
SUN - 22	HOLIDAY		
MON - 23	II Monthly Test	IV	52
TUE – 24	II Monthly Test	V	53
WED – 25	II Monthly Test	VI	54
THU -26	II Monthly Test	I	55
FRI – 27	II Monthly Test	II	56
SAT – 28	HOLIDAY		
SUN – 29	HOLIDAY		
Mon - 30	HOLIDAY - Krishna Jayanthi		
TUE-31		III	57

CALENDAR 2021-2022

Day & Date	SEPTEMBER	Time Table Code	No. Of Working Days
WED - 1		IV	58
THU - 2		V	59
FRI - 3		VI	60
SAT - 4	HOLIDAY		
SUN - 5	HOLIDAY		
MON - 6		I	61
TUE - 7		II	62
WED - 8		III	63
THU - 9		IV	64
FRI - 10	Holiday – Vinayakar Chaturthi		
SAT - 11	HOLIDAY		
SUN - 12	HOLIDAY		
MON - 13		V	65
TUE - 14		VI	66
WED - 15		I	67

Day & Date	SEPTEMBER	Time Table Code	No. Of Working Days
THU - 16		II	68
FRI - 17		III	69
SAT - 18	HOLIDAY		
SUN - 19	HOLIDAY		
MON - 20	பெள்ள்ணமி கவியரங்கம்	IV	70
TUE - 21		V	71
WED - 22		VI	72
THU - 23		I	73
FRI - 24		II	74
SAT - 25	HOLIDAY		
SUN - 26	HOLIDAY		
MON - 27	III Monthly Test	III	75
TUE - 28	III Monthly Test	IV	76
WED - 29	III Monthly Test	V	77
THU - 30	III Monthly Test	VI	78

CALENDAR 2021-2022

Day & Date	OCTOBER	Time Table Code	No. Of Working Days
FRI -1	III Monthly Test	I	79
SAT -2	Holiday – Gandhi Jayanthi		
SUN - 3	HOLIDAY		
MON - 4		II	80
TUE – 5		III	81
WED – 6		IV	82
THU -7		V	83
FRI – 8		VI	84
SAT -9	HOLIDAY		
SUN – 10	HOLIDAY		
MON – 11		I	85
TUE – 12		II	86
WED – 13		III	87
THU – 14	Holiday - SARASWATHI POOJA		
FRI - 15	Holiday- VIJAYADHASAMI		

Day & Date	OCTOBER	Time Table Code	No. Of Working Days
SAT – 16	HOLIDAY		
SUN - 17	HOLIDAY		
MON - 18		IV	89
TUE – 19	Holiday - Milad-Un-Nabi		
WED – 20		V	90
THU -21		VI	91
FRI – 22		I	92
SAT – 23	HOLIDAY		
SUN – 24	HOLIDAY		
MON - 25	Model Examination	II	93
TUE – 26	Model Examination	III	94
WED – 27	Model Examination	IV	95
THU -28	Model Examination	V	96
FRI – 29	Model Examination	VI	97
SAT - 30	HOLIDAY		
SUN 31	HOLIDAY		

CALENDER – 2021 -2022

Day & Date	NOVEMBER	Time Table Code	No. Of Working Days
MON – 1		I	98
TUE – 2		II	99
WED -3		III	100
THU – 4	Holiday - Deepawali		
FRI -5		IV	101
SAT -6	HOLIDAY	V	102
SUN - 7	HOLIDAY		
MON - 8	Commencement of University Theory Examination		
TUE – 9			
WED –10			
THU -11			
FRI – 12			
SAT -13	HOLIDAY		
SUN – 14	HOLIDAY		
Mon- 15			

Day & Date	NOVEMBER	Time Table Code	No. Of Working Days
TUE – 16			
WED –17			
THU – 18	பௌர்ணமி கவியரங்கம்		
FRI -19			
SAT – 20	HOLIDAY		
SUN - 21	HOLIDAY		
MON - 22 .			
TUE – 23			
WED – 24			
THU -25			
FRI – 26			
SAT – 27	HOLIDAY		
SUN - 28	HOLIDAY		
Mon- 29			
TUE - 30			

CALENDAR 2021 -2022

Day & Date	DECEMBER	Time Table Code	No. Of Working Days
WED - 1			
THU - 2			
FRI - 3			
SAT - 4	HOLIDAY		
SUN - 5	HOLIDAY		
MON - 6			
TUE - 7			
WED - 8	College Reopen (Even Sem)	I	1
THU - 9		II	2
FRI - 10		III	3
SAT - 11	HOLIDAY		
SUN - 12	HOLIDAY		
MON - 13		IV	4
TUE - 14		V	5
WED - 15		VI	6

Day & Date	DECEMBER	Time Table Code	No. Of Working Days
THU - 16		I	7
FRI - 17		II	8
SAT - 18	HOLIDAY		
SUN - 19	HOLIDAY		
MON - 20		III	9
TUE - 21		IV	10
WED - 22		V	11
THU - 23		VI	12
FRI - 24		I	13
SAT - 25	Holiday - Christmas		
SUN - 26	HOLIDAY		
MON - 27		II	14
TUE - 28		III	15
WED - 29		IV	16
THU - 30		V	17
FRI - 31		VI	18

CALENDAR 2021- 2022

Day & Date	JANUARY	Time Table Code	No. Of Working Days
SAT -1	Holiday - New Year's Day		
SUN - 2	HOLIDAY		
MON - 3		I	19
TUE - 4		II	20
WED - 5		III	21
THU - 6		IV	22
FRI -7		V	23
SAT -8	HOLIDAY		
SUN - 9	HOLIDAY		
MON - 10		VI	24
TUE - 11		I	25
WED - 12		II	26
THU -13	Holiday – BOGI		
FRI – 14	Holiday – PONGAL		
SAT -15	Holiday – Ayyan Thiruvalluvar Day		

Day & Date	JANUARY	Time Table Code	No. Of Working Days
SUN – 16	Holiday – Uzhavan Day		
MON – 17	பெள்ளணமி கவியரங்கம்	III	27
TUE – 18	HOLIDAY –THAIPOOSAM		
WED – 19		IV	28
THU – 20		V	29
FRI -21		VI	30
SAT – 22	HOLIDAY		
SUN - 23	HOLIDAY		
MON - 24		I	31
TUE – 25		II	32
WED – 26	Holiday - Republic Day		
THU -27		III	33
FRI – 28		IV	34
SAT – 29	HOLIDAY		
SUN - 30	HOLIDAY		
MON - 31		V	35

CALENDAR 2021 -2022

Day & Date	FEBRUARY	Time Table Code	No. Of Working Days
TUE - 1		VI	36
WED - 2		I	37
THU -3		II	38
FRI -4		III	39
SAT -5	HOLIDAY		
SUN - 6	HOLIDAY		
MON - 7	I Monthly Test	IV	40
TUE - 8	I Monthly Test	V	41
WED - 9	I Monthly Test	VI	42
THU -10	I Monthly Test	I	43
FRI - 11	I Monthly Test	II	44
SAT -12	HOLIDAY		
SUN -13	HOLIDAY		
MON - 14		III	45
TUE - 15		IV	46

Day & Date	FEBRUARY	Time Table Code	No. Of Working Days
WED - 16	பெள்ள்ணமி கவியரங்கம்	V	47
THU - 17		VI	48
FRI - 18		I	49
SAT - 19	HOLIDAY		
SUN - 20	HOLIDAY		
MON - 21		II	50
TUE - 22		III	51
WED - 23		IV	52
THU - 24		V	53
FRI - 25		VI	54
SAT - 26	HOLIDAY		
SUN - 27	HOLIDAY		
MON - 28		I	55

CALENDER – 2021 -2022

Day & Date	MARCH	Time Table Code	No. Of Working Days
TUE - 1		II	56
WED - 2		III	57
THU -3		IV	58
FRI -4		V	59
SAT -5	HOLIDAY		
SUN - 6	HOLIDAY		
MON - 7		VI	60
TUE - 8		I	61
WED - 9		II	62
THU -10		III	63
FRI - 11		IV	64
SAT -12	HOLIDAY		
SUN -13	HOLIDAY		
MON - 14		V	65
TUE - 15		VI	66

Day & Date	MARCH	Time Table Code	No. Of Working Days
WED - 16		I	67
THU - 17		II	68
FRI - 18	பெளர்ணமி கவியரங்கம்	III	69
SAT - 19	HOLIDAY		
SUN - 20	HOLIDAY		
MON - 21		IV	70
TUE - 22		V	71
WED - 23		VI	72
THU - 24		I	73
FRI - 25		II	74
SAT - 26	HOLIDAY		
SUN - 27	HOLIDAY		
MON - 28	Model Examination	III	75
TUE - 29	Model Examination	IV	76
WED - 30	Model Examination	V	77
THU - 31	Model Examination	VI	78

CALENDAR 2021-2022

Day & Date	APRIL	Time Table Code	No. Of Working Days
FRI -1	Model Examination	I	79
SAT -2	HOLIDAY		
SUN -3	HOLIDAY		
MON -4		II	80
TUE -5		III	81
WED -6		IV	82
THU -7		V	83
FRI -8		VI	84
SAT -9	HOLIDAY		
SUN -10	HOLIDAY		
MON -11		I	85
TUE -12		II	86
WED -13		III	87
THU -14	Holiday – Tamil New Year		
FRI -15	Holiday – Good Friday		

Day & Date	APRIL	Time Table Code	No. Of Working Days
SAT -16	HOLIDAY		
SUN -17	HOLIDAY		
MON -18		IV	88
TUE -19		V	89
WED -20		VI	90
THU -21		I	91
FRI -22		II	92
SAT -23	HOLIDAY		
SUN -24	HOLIDAY		
MON -25			
TUE -26			
WED -27	Commencement of University Examination		
THU -28			
FRI -29			
SAT -30	HOLIDAY		



PERIYAR UNIVERSITY

PERIYAR PALKALAI NAGAR

SALEM – 636011

B.Sc. COMPUTER SCIENCE

CHOICE BASED CREDIT SYSTEM

OBE REGULATIONS AND SYLLABUS

(SEMESTER PATTERN)

**(For Candidates admitted in the Colleges affiliated to Periyar
University from 2021 - 2022 onwards)**

Outcome Based Education (OBE) REGULATIONS AND SYLLABUS

(With effect from the academic year 2021-2022 onwards)

1. PREAMBLE

The programme prepares under Graduates in **Computer Science** with strong theoretical inputs and practical knowledge, who can be employed in industries. The programme develops requisite professional skills and problem solving abilities to pursue a successful career in software industry and for pursuing higher studies in Computer Science.

2. GRADUATE ATTRIBUTES

1. Computational Knowledge
2. Problem Analysis & Solving
3. Design & Development of Solutions
4. Modern Tool Usage
5. Communication skills
6. Innovation & Entrepreneurship
7. Societal & Environmental concern

3. PROGRAMME SPECIFIC QUALIFICATION ATTRIBUTES

The programme specific qualification attributes meant to be achieved through subjects in the programme in terms of

1. Knowledge and understanding level (K1 and K2)
2. Application level (K3)
3. Analytical level (K4)
4. Evaluation capability level (K5)
5. Scientific or Synthesis level (K6)

4. FOR ADMISSION

A candidate who has passed in Higher Secondary Examination with Mathematics or Business Mathematics or Computer Science or Statistics (Academic stream or Vocational stream) as one of the subject under Board of Higher Secondary Examination, Tamil Nadu as per the norms set by the Government of Tamil Nadu or an Examination accepted as equivalent thereto by the syndicate, subject to such other conditions as may be prescribed, are permitted to appear and qualify for the **Bachelor of Science in Computer Science** degree examination of this university, after a programme of study of three academic years.

5. PROGRAMME OBJECTIVES AND OUTCOMES

1. Programme Educational Objectives (PEOs)

PEO1: Graduates are prepared to be employed in IT industries by providing expected domain Knowledge.

PEO2: Graduates are provided with practical training, hands-on to meet the industrial needs.

PEO3: Graduates are motivated in career and entrepreneurial skill development to become global leaders.

PEO4: Graduates are trained to demonstrate creativity, develop innovative ideas and. to work in teams to accomplish a common goal.

PEO5: Graduates are trained to address social issues and guided to approach problems with solutions.

2. Programme Specific Outcomes(PSOs)

After completion of the programme, the graduates will be able to

PSO1 : Apply domain knowledge and problem solving skills to solve real time problems.

PSO2: Acquire good employability skills which will ensure exceptional career opportunities in IT companies.

PSO3: Get a strong foundation to pursue higher education in the field of Computer Science/Applications.

3. Programme Outcomes(POs)

After completion of the programme, the graduates will be able

PO1: To understand the fundamental concepts of computer system, including hardware and software.

PO2: To Design, and analyze precise specifications of algorithms, procedures, and interaction behavior.

PO3: To apply the appropriate technologies, skills and tools in various fields of Computer Science.

PO4: To analyze impacts of computing on individuals, organization and society.

6. DURATION OF THE PROGRAMME

The programme shall extend over a period of three years comprising six semesters with two semesters in one academic year. There shall not be less than 90 working days for each semester. Examination shall be conducted at the end of every semester for the respective subjects.

7. COURSE OF STUDY

The programme of study shall comprise instruction in the following subjects according to the syllabus and books prescribed from time to time. The syllabus for various subjects shall be clearly demarcated into five units in each subject. Part -I, Part-II, Part- III, Part -IV and Part-V subjects are prescribed in the scheme of examination. The Extension Activities are a must for each student to take part at least in any one of the activities such as NSS, YRC, SPORTS and RRC for the fulfillment of the degree.

8. EXAMINATIONS

The theory examination shall be three hour duration for each paper at the end of every semester. The candidate failing in any subject(s) will be permitted to appear in the subsequent examination. The practical examinations for core subjects and SBEC should be conducted at the end of the every semester.

Submission of record note books for practical examinations

Candidates appearing for practical examinations should submit bonafide Record note books prescribed for practical examinations, Otherwise the candidates will not be permitted to appear for the practical examinations. However, in genuine cases of the students who could not submit the record note books, they may be permitted to appear for the practical examinations, provided the concerned Head of the Department certify that the candidate has performed the experiments prescribed for the course. For such candidates zero (0) marks will be awarded for record note books.

9. Revision of Regulations and Curriculum

The University may revise/amend/ change the Regulations and Scheme of Examinations, as and when found necessary.

10 . PASSING MINIMUM

(a) Theory

The candidate shall be declared to have passed the examination if the candidate **secures not less than 40marks** put together out of 100 marks (CIA+EA). **Minimum 40% should be secured (30 out of 75) in EA** of each theory subject.

(b) Practical/Project viva voce

The candidate shall be declared to have passed the examination if the candidate **secures not less than 40marks** put together out of 100 marks (CIA + EA). **Minimum 40% should be secured (24 out of 60) in EA** of each Practical subject.

11. Marks Distribution and Question Paper Pattern for B.Sc.,

11.1 Theory –Marks Distribution

Maximum Marks : 100 Marks

External [EA] : 75 Marks

Internal [CIA] : 25 Marks

(a). Theory - Question Paper Pattern [External] (Total Marks: 75)

Section	Approaches	Mark Pattern
A	One word (Answer all questions & Three questions from each unit)	15X1 = 15 (Multiple Choice Questions)
B	100 to 200 words (Answer any Two out of five questions & One question from each unit)	2X5 = 10 (Analytical type questions)
C	500 to 1000 words (Answer ALL questions & One question from each unit with Internal Choice)	5X10 = 50 (Essay type questions)

(b). Theory - Internal Marks Distribution (Total Marks: 25)

Attendance : 5 Marks

Assignment : 5 Marks

Test : 15 Marks

11.2. Practical – Marks Distribution

Maximum Marks : 100 Marks

External [EA] : 60 Marks

Internal [CIA] : 40 Marks

(a) practical-External marks distribution (Total Marks :60)

For each practical question the marks should be awarded as follows **(External)**

- | | | |
|------|---|-------|
| i) | Algorithm/flowchart | - 20% |
| ii) | Writing the program in the main answer book | - 30% |
| iii) | Test and debug the program | - 30% |
| iv) | Printing the correct output | - 20% |

(Marks may be proportionately reduced for the errors committed in each of the above)

Practical Question Paper Pattern

Student should attend two questions (either / or pattern)

Note:

- (i) Practical I to Practical VII and SBEC Practical have the same pattern
- (ii) Core and SBEC Practical Examination must be conducted at the end of every Semester

(b). Practical - Internal Marks Distribution (Total Marks: 40)

- Record : 15 Marks
- Internal Practical examinations : 25 Marks

11.3 Project Evaluation:

Continuous Internal Assessment	: 40 Marks
Evaluation (External)	: 40 Marks
Viva-voce (jointly)	: 20 Marks

12. COMMENCEMENT OF THIS REGULATION :

These regulations shall take effect from the academic year 2021-2022, i.e, for students who are to be admitted to the first year of the programme during the academic year 2021-2022 and thereafter.

Scheme of Examinations from the Academic Year 2021-2022**Credit Distribution as per the University Norms.**

SEMESTER	I	II	III	IV	V	VI	Total Credits
PART – I	3	3	3	3	-	-	12
PART – II	3	3	3	3	-	-	12
ALLIED	4	6	4	6	-	-	20
CORE THEORY	5	10	9	4	12	5	45
CORE PRATICAL	2	2	2	2	4	8	20
ELECTIVE	-	-	-	-	4	8	12
SBEC	-	-	3	3	3	3	12
NMEC	-	-	2	2	-	-	4
EVS	-	-	-	-	-	-	-
VALUE EDUCATION	2	-	-	-	-	-	2
ADD-ON COURSE	-	-	-	-	-	-	-
EXTENSION ACTIVITY	-	-	-	-	-	1	1
PROFESSIONAL ENGLISH- PHYSICAL SCIENCE	4	4					8
Cumulative Total Credits	23	28	26	23	23	25	148

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	700
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	800

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

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

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

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

SEMESTER I

Subject Title	PROBLEM SOLVING THROUGH C	Semester	I
Subject Code	21UCS01	Specialization	NA
Type	Core: Theory	L:T:P:C	86:6:0:5

COURSE OBJECTIVE:

1. It aims to provide exposure to problem-solving through programming.
2. To apprehend the basic concepts of C- Programming language. This course introduces fundamental concepts such as arrays and structures.
3. It covers concepts such as arrays, pointers and file handling methods.
4. It provides technical skills to design and develop various applications.

CO Number	CO Statement	Knowledge Level
CO1	Recognize the Basic Terminologies of C Programming	K1
CO2	Understanding the statement structure and apply simple problems	K2,K3
CO3	Understand and apply the pre-defined functions and user defined functions and then apply in simple problems	K3
CO4	Demonstrate the operation of Structures and unions.	K3,K4
CO5	Recognize the operation of Files	K3,K4

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

Subject Title	PROBLEM SOLVING THROUGH C	Semester	I
Subject Code	21UCS01	Specialization	NA
Type	Core: Theory	L:T:P:C	86:6:0:5
Unit	Contents	Levels	Sessions
I	Overview of Computers and Programming: Electronic Computers Then and Now , Computer Hardware, Computer Software , The Software Development Method, Applying the Software Development Method , Professional Ethics for Computer Programmers Fundamentals of C Languages: History of C, Character Set, Identifiers and Overview of C:– Introduction - character set - C tokens - keyword & identifiers – constants – variables - data types – Declarations of variables ,operators - expressions - Evaluation of expression - Mathematical functions - Formatted input and output	K1	17
II	Decision Statements: If, if else, switch, break, continue - the? Operator - The GOTO statement. – Loop Control Statements: Introduction – for, nested for loops – while, do-while statements – Arrays: One-dimensional - Two dimensional - Multidimensional arrays	K2,K3	17
III	Character string handling - Declaring and initializing string variables - Reading strings from terminal - Writing strings to screen - String handling functions - User-defined functions: Need for user defined functions – Types of functions - calling a function category of functions - no arguments and no return values - Arguments but no return values - Arguments with return values – Recursion - functions with arrays - The scope and lifetime of variables in functions	K2,K3	17
IV	Structure: Definition- Structure initialization - Comparison of structure variables - Arrays of structures - Arrays within structures - Structures within structures – unions. Pointers: understanding pointers - accessing the address of a variable - declaring and initializing pointers - accessing a variable through its pointers - pointer expressions - pointers and arrays - pointers and character strings - pointers and functions - pointers and structures	K3,K4	17
V	File Management in C: defining and opening a file - closing file - I/O operations on files - error handling during I/O operations - Random access to files - command line arguments. Preprocessors	K3,K4	18
Learning Resources			

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

Text Books	1. Problem solving and program design in C / Jeri R. Hanly, Elliot B. Koffman. —7th ed.,PEARSON 2. E. Balagurusamy, Programming in ANSI C, fifth edition, Tata McGraw-Hill.
Reference Books	1. V. Rajaraman Computer Programming in C Prentice Hall of India Pvt Ltd, 1st Edition,2004 2 Yashwvant Kanetkar Let us C BPB Publications 13th Edition, 2014
Website / Link	http://www.learn-c.org/ http://crasseux.com/books/ctutorial/

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

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

Subject Title	PRACTICAL I : C-PROGRAMMING	Semester	I
Subject Code	21UCSP01	Specialization	NA
Type	Core: Practical	L:T:P:C	45:0:3:2

COURSE OBJECTIVE:

1. To impart Practical Training in C Programming Language.
2. Familiarize the different control and decision making statements in “C”.
3. Build programs using arrays and strings.
4. Provide knowledge on working with files and functions.

LIST OF PROGRAMS

1. Develop a C program to print prime numbers within the range of integers given. .
2. Develop a C Program to find the sum and average of given N numbers.
3. Develop a C Program using all decision making and looping statements.
4. Develop a C Program to arrange the given numbers in ascending /descending order.
5. Develop a C Program to perform matrix multiplication.
6. Develop a C Program to manipulate string functions.
7. Develop a C Program to find the Fibonacci series for a give number using recursive function.
8. Develop a C Program to show Call by Value and Call by Reference.
9. Develop a C program to swap two numbers using pointers.
10. Develop a C Program to update the student’s details using various file modes.
11. Develop a C Program to copy the content of one file to another file.

COURSE OUTCOME:

1. Study all the Basic Statements in C Programming.
2. Practice the usage of branching and looping statements.
3. Apply string functions and arrays usage.
4. Analysis the use of pointers and files.

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

Subject Title	DATA STRUCTURES AND ALGORITHMS	Semester	II
Subject Code	21UCS02	Specialization	NA
Type	Core: Theory	L:T:P:C	45:3:0:5

COURSE OBJECTIVE:

1. Understand the basic concept of algorithms.
2. To introduce the various data structures and their implementations.
3. Evaluate the performance of various sorting algorithms.

CO Number	CO Statement	Knowledge Level
CO1	Remember the concept of algorithms.	K1
CO2	Understanding the stack and queues.	K2
CO3	Apply linked list for other data structures.	K2, K3
CO4	Evaluate the trees and sorting methods.	K3,K4
CO5	Analyze the sorting and file organizations.	K5

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

Subject Title	DATA STRUCTURES AND ALGORITHMS	Semester	II
Subject Code	21UCS02	Specialization	NA
Type	Core: Theory	L:T:P:C	45:3:0:5
Unit	Contents	Levels	Sessions
I	Introduction of algorithms, analyzing algorithms, Arrays : Representation of Arrays, Implementation of Stacks and queues, Application of Stack: Evaluation of Expression - Infix to postfix Conversion - Multiple stacks and Queues, Sparse Matrices.	K1	8
II	Linked list : Singly Linked list - Linked stacks and queues - polynomial addition - More on linked Lists - Doubly linked List and Dynamic Storage Management - Garbage collection and compaction.	K2	8
III	Trees: Basic Terminology - Binary Trees - Binary Tree representations - Binary trees - Traversal - More on Binary Trees - Threaded Binary trees - counting Binary trees. Graphs: Terminology and Representations - Traversals, connected components and spanning Trees, Single Source Shortest path problem.	K2,K3	8
IV	Symbol Tables : Static Tree Tables - Dynamic Tree Tables - Hash Tables Hashing Functions - overflow Handling. External sorting : Storage Devices -sorting with Disks : K-way merging - sorting with tapes.	K3,K4	10
V	Internal sorting : Insertion sort - Quick sort - 2 way Merge sort - Heap sort - shell sort - sorting on keys. Files: Files, Queries and sequential organizations - Index Techniques - File organization	K5	11
Learning Resources			
Text Books	1. Ellis Horowitz, Sartaj Shani, Fundamentals of Data Structures, Galgotia publication.		
Reference Books	1. Data structures Using C Aaron M. Tenenbaum, Yedidyah Langsam, Moshe J. Augenstein, Kindersley (India) Pvt. Ltd., 2. Data structure and Algorithms, Alfred V. Aho, John E. Hopcroft, Jeffrey D. Ullman, Pearson Education Pvt. Ltd.,		
Website/ Link	1. www.freetechbooks.com/a-practical-introduction-to-data-structures-and-algorithm-analysis-thirdedition-c-version-t804.html 2. http://www.nptel.ac.in/courses/106101060/ 3. http://www.nptel.ac.in/courses/106104019/		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

Subject Title	DATA STRUCTURES USING C	Semester	II
Subject Code	21UCSP02	Specialization	NA
Type	Core: Practical	L:T:P:C	45:0:3:2

COURSE OBJECTIVE:

1. To impart Practical Training in C Programming Language.
2. Understanding the data structures stack and queues.
3. Apply linked list for other data structures.
4. Analyze the sorting and file organizations.

LIST OF PROGRAMS:

1. Write a C program to create two array list of integers. Sort and store the elements of both of them in third list.
2. Write a C program to multiply two matrices A and B and store the resultant matrix in C using arrays.
3. Write a C program to experiment the operation of STACK using array.
4. Write a C program to create menu driven options to implement QUEUE to perform the following
 - (i) Insertion
 - (ii) Deletion
 - (iii) Modification
 - (iv) Listing of elements
5. Write a C program to create Linked list representations of employee records and do the following operations using pointers.
 - (i) To add a new record.
 - (ii) To delete an existing record.
 - (iii) To print the details about an employee.
 - (iv) To find the number of employees in the structure.
6. Write a C Program to count the total nodes of the linked list and to insert an element at the end of the linked list.
7. Write a C program to insert an element at the beginning of a doubly linked list.
8. Write a C program to display the hash table, using the mid square method.
9. Write a C program to traverse the given binary tree using all traversal methods.
10. Write a C program to insert an element in a binary tree.

COURSE OUTCOME:

1. Study all the Basic operation of matrices and stack.
2. Practice the usage of branching and looping statements in hash table.
3. Apply arrays for stack and queue.
4. Analysis the use of pointers for linked list, doubly linked list and tree traverse.

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

Subject Title	COMPUTER ORGANIZATION AND ARCHITECTURE	Semester	II
Subject Code	21UCS03	Specialization	NA
Type	Core: Theory	L:T:P:C	56:4:0:5

COURSE OBJECTIVE:

1. To know Structure and functions of Computer architecture and organizations.
2. Observe the characteristics of various computer memory concepts.
3. To understand the computer arithmetic and machine instructions.
4. Understand the parallel processing concepts.

CO Number	CO Statement	Knowledge Level
CO1	Recognize the Basic Number system and logic gates.	K1
CO2	Understanding the flip flops and Karnaugh maps.	K2,K3
CO3	Understand and apply micro operation and data transfer.	K3
CO4	Demonstrate the computer arithmetic and addressing modes.	K3,K4
CO5	Analyze the memory and I/O organizations.	K3,K4

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

Subject Title	COMPUTER ORGANIZATION AND ARCHITECTURE	Semester	II
Subject Code	21UCS03	Specialization	NA
Type	Core: Theory	L:T:P:C	56:4:0:5
Unit	Contents	Levels	Sessions
I	Digital Principles: Definition for digital signals – Digital waveforms – Digital logic – Moving and Storing Digital Information – Digital Operations – Digital computers – Digital Integrated Circuits. Digital Logic: The Basic Gates - NOT, OR, AND –Universal Logic Gates – NOR, NAND – AND-OR- Invert Gates – Positive and Negative Logic.	K1	12
II	Combinational Logic Circuits: Boolean Laws And Theorems – Sum-of-products Method – Truth Table to Karnaugh Map – Pairs, Quads, and Octets – Karnaugh Simplification – Don't-care Conditions – Product-of-sums Simplification. Data-Processing Circuits: 16-to-1 Multiplexer – 1-to-16 De- multiplexer – BCD-to-decimal Decoder – Decimal-to-BCD Encoder – Exclusive-or Gates – Parity Generation and Application.	K2,K3	12
III	Number Systems and Codes: Binary Number System – Binary-to-decimal Conversion – Decimal-to- binary Conversion – Octal Numbers – Hexadecimal Numbers – The ASCII Code – The Excess-3 Code – The Gray Code. Arithmetic Circuits: Binary Addition –Binary Subtraction –Unsigned Binary Numbers – Sign-magnitude Numbers - 2'S Complement Representation - 2'S Compliment Arithmetic.	K2,K3	12
IV	Arithmetic Circuits: Arithmetic Building Blocks – The Adder - Subtractor – Fast Adder – Arithmetic Logic Unit – Binary Multiplication and Division. Clocks and Timing Circuits: Clock Waveforms. Flip- Flops: RS Flip-flops – Edge-triggered D Flip-flops - Edge triggered JK Flip-flops – JK Master-slave Flip-flops.	K3,K4	10
V	Registers: Serial-In Serial-Out – Serial-In Parallel-Out – Parallel-In Serial-Out – Parallel-In Parallel-Out. Memory: Introduction - Magnetic Memory - Optical Memory - Memory Addressing - ROMs, PROMs, EPROMs and EEPROM – RAMs. A Simple Computer Design.	K3,K4	10

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

	Learning Resources
Text Books	Donald P Leach, Albert Paul Malvino and Goutam Saha, “Digital Principles and Applications,” 8 th Edition, TMH, 2006.
Reference Books	1. Morris Mano, "Digital Logic and Computer Design," 4th Edition, Pearson, 2008 2. Thomas C Bartee, "Digital Computer Fundamentals," sixth edition, McGraw-Hill, 1985 3. Pradeep K. Sinha, Priti Sinha , "Computer Fundamentals," Sixth Edition, BPB Publications, 2007
Website / Link	www.javatpoint.com/computer-organization-and-architecture-tutorial

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

Subject Title	RELATIONAL DATABASE MANAGEMENT SYSTEMS	Semester	III
Subject Code	21UCS04	Specialization	NA
Type	Core: Theory	L:T:P:C	41:3:0:5

COURSE OBJECTIVE:

1. Understand the basic concept of Data Base and database management system.
2. Understand and apply the SQL fundamentals.
3. Evaluate the Relational database design.

CO Number	CO Statement	Knowledge Level
CO1	Remember the concept of database.	K1
CO2	Understanding the data models and ER Diagram.	K2
CO3	Apply SQL commands.	K2, K3
CO4	Evaluate the DBMS in SQL.	K3,K4
CO5	Analyze the Transaction management.	K5

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

Subject Title	RELATIONAL DATABASE MANAGEMENT SYSTEMS	Semester	III	
Subject Code	21UCS04	Specialization	NA	
Type	Core: Theory	L:T:P:C	41:3:0:5	
Unit	Contents		Levels	Sessions
I	Introduction: Database System Applications-Purpose of Database Systems-View of Data-Database Languages-Transaction Management-Database Architecture-Database users and Administrators. Relational Model: Structure of Relational Databases – Database Design – ER Model-Overview of the Design Process – The Entity – relationship Model – Constraints – Entity Relationship Diagrams.		K1	10
II	Relational Algebra Operations –Relational Languages: The Tuple Relational Calculus –The Domain Relational Calculus – SQL: Background – Data Definition – Basic Structure of SQL Queries – Set Operations – Aggregate Functions – Null Values – Nested Sub-Queries – Views – Modification of the Database.		K2	7
III	Data Normalization: Pitfalls in Relational Database Design – Decomposition – Functional Dependencies – Normalization – First Normal Form – Second Normal Form – Third Normal Form – Boyce-Codd Normal Form – Fourth Normal Form – Fifth Normal Form – Denormalization – Database Security: Data Security Requirements – Protecting the Data within the Database – Granting and Revoking Privileges – Data Encryption.		K2,K3	8
IV	PL/SQL: A programming Language: History - Fundamentals – Block Structure – Comments – Data Types – Other Data Types – Declaration – Assignment operation – Bind variables – Substitution Variables – Printing – Arithmetic Operators. Control Structures and Embedded SQL: Control Structures – Nested Blocks – SQ L IN PL/SQL – Data Manipulation-Transaction Control statements. PL/SQL Cursors and Exceptions: Cursors – Implicit & Explicit Cursors and Attributes – Cursor FOR loops – SELECT...FOR UPDATE – WHERE CURRENT OF clause – Cursor with Parameters – Cursor Variables – Exceptions – Types of Exceptions.		K3,K4	8
V	PL/SQL Composite Data Types: Records – Tables – V arrays. Named Blocks: Procedures – Functions – Packages - Triggers – Data Dictionary Views.		K5	8
	Learning Resources			
Text Books	1. “Database System Concepts”,Abraham Silberschatz, Henry F.Korth, S.Sudarshan, TMH 5 th Edition (Units – I,II) 2. “Fundamentals of Database Management Systems”, Alexis Leon, Mathews Leon, Vijay Nicole Imprints Private Limited. (Unit-III) 3. “Database Systems Using Oracle” Nilesh Shah,2 nd edition,PHI.UNIT-IV: Chapters 10 & 11 UNIT-V:Chapters 12,13 & 14.			

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

Reference Books	1. Alexix Leon & Mathews Leon, "Essential of DBMS", 2nd reprint, Vijay Nicole Publications, 2009.
Website / Link	• https://www.w3schools.com/sql • https://www.tutorialspoint.com/sql • https://livesql.oracle.com

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

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

Subject Title	PRACTICAL III – SQL and PL/SQL	Semester	III
Subject Code	21UCSP03	Specialization	NA
Type	Core: Practical	L:T:P:C	30:0:2:2

COURSE OBJECTIVE:

1. To impart Practical Training in DDL Commands.
2. Familiarize the different DML Commands.
3. Build queries with SQL Commands.
4. Provide knowledge on working with big tables.

LIST OF PROGRAMS:

NOTE : Demonstrate the following SQL commands and can take any back end RDBMS system for implementation purpose.

1. Data Definition of Base Tables.
2. DDL with Primary key constraints.
3. DDL with constraints and verification by insert command.
4. Data Manipulation of Base Tables and Views.
5. Demonstrate the Query commands.
6. Write a PL/SQL code block that will accept an account number from the user and debit an amount of Rs. 2000 from the account if the account has a minimum balance of 500 after the amount is debited. The Process is to fired on the Accounts table.
7. Write a PL/SQL code block to calculate the area of the circle for a value of radius varying from 3 to 7. Store the radius and the corresponding values of calculated area in a table Areas. Areas – radius, area.
8. Write a PL/SQL block of code for reversing a number. (Example : 1234 as 4321).
9. Create a transparent audit system for a table Client_master (client_no, name, address, Bal_due). The system must keep track of the records that are being deleted or updated. The functionality being when a record is deleted or modified the original record details and the date of operation are stored in the audit client(client_no, name, bal_due, operation, user-id, opdate) table, then the delete or update is allowed to go through.

COURSE OUTCOME:

1. Study all the Basic DDL and DML Commands.
2. Practice the usage of SQL Statements.
3. Apply PL/SQL code usage.
4. Analysis the use of PL/SQL for complex problems.

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

Subject Title	COMPUTER NETWORKS	Semester	III
Subject Code	21UCS05	Specialization	NA
Type	Core: Theory	L:T:P:C	41:3:0:4

COURSE OBJECTIVE:

1. To understand the concept of Computer network.
2. To impart knowledge about networking and internet devices.

CO Number	CO Statement	Knowledge Level
CO1	Remember the concept of networks and its types.	K1
CO2	Understanding the wireless communications.	K2
CO3	Understand and Apply data link protocols.	K3
CO4	Evaluate the network design issues.	K3,K4
CO5	Analyze the connection issues.	K5

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

Subject Title	COMPUTER NETWORKS	Semester	III	
Subject Code	21UCS05	Specialization	NA	
Type	Core: Theory	L:T:P:C	41:3:0:4	
Unit	Contents		Levels	Sessions
I	Introduction – Network Hardware - Software - Reference Models - OSI and TCP/IP Models - Example Networks: Internet, ATM, Ethernet and Wireless LANs - Physical Layer - Theoretical Basis for Data Communication - Guided Transmission Media.		K1	8
II	Wireless Transmission - Communication Satellites - Telephone System: Structure, Local Loop, Trunks and Multiplexing and Switching. Data Link Layer: Design Issues - Error Detection and Correction.		K2	8
III	Elementary Data Link Protocols - Sliding Window Protocols - Data Link Layer in the Internet - Medium Access Layer - Channel Allocation Problem - Multiple Access Protocols - Bluetooth.		K3	8
IV	Network Layer - Design Issues - Routing Algorithms - Congestion Control Algorithms - IP Protocol - IP Addresses - Internet Control Protocols.		K3,K4	8
V	Transport Layer - Services - Connection Management - Addressing, Establishing and Releasing a Connection - Simple Transport Protocol - Internet Transport Protocols (ITP) - Network Security: Cryptography.		K5	9
	Learning Resources			
Text Books	1. A. S. Tanenbaum, “Computer Networks”, Prentice-Hall of India 2008, 4th Edition.			
Reference Books	1. Stallings, “Data and Computer Communications”, Pearson Education 2012, 7th Edition. 2. B. A. Forouzan, “Data Communications and Networking”, Tata McGraw Hill 2007, 4th Edition. 3. F. Halsall, “Data Communications, Computer Networks and Open Systems”, Pearson Education 2008.			
Website / Link	NPTEL & MOOC courses titled Computer Networks https://nptel.ac.in/courses/106106091/			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

Subject Title	SBEC I - OFFICE AUTOMATION LAB	Semester	III
Subject Code	21UCSSP01	Specialization	NA
Type	SBEC: Practical	L:T:P:C	30:0:2:3

COURSE OBJECTIVE:

1. To acquire knowledge on editor, spread sheet and slide preparation.
2. To improve creative thinking in presentation software.

LIST OF PROGRAMS:

I. MS-WORD

1. Text Manipulation: Write a paragraph about your institution and Change the font size and type, Spell check, Aligning and justification of Text.
2. Bio data: Prepare a Bio-data.
3. Find and Replace: Write a paragraph about yourself and do the following. Find and Replace - Use Numbering Bullets, Footer and Headers.
4. Tables and manipulation: Creation, Insertion, Deletion (Columns and Rows). Create a mark sheet.
5. Mail Merge: Prepare an invitation to invite your friends to your birthday party. Prepare at least five letters.

II. MS-EXCEL

1. Data sorting-Ascending and Descending (both numbers and alphabets).
2. Mark list preparation for a student.
3. Individual Pay Bill preparation.
4. Invoice Report preparation.
5. Drawing Graphs. Take your own table.

III. MS-POWERPOINT

1. Create a slide show presentation for a seminar.
2. Preparation of Organization Charts.
3. Create a slide show presentation to display percentage of marks in each semester for all students
 - (1) Use bar chart (X-axis: Semester, Y-axis: % marks).
 - (2) Use different presentation template different transition effect for each slide.

CO Number	CO Statement	Knowledge Level
CO1	Remember the concept of word processing.	K1
CO2	Understanding the tools in Micro soft word.	K2
CO3	Understand and Apply Excel Features.	K3
CO4	Evaluate the EXCEL functions.	K3,K4
CO5	Analyze the different designs of MS Presentations.	K5

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

Subject Title	PROGRAMMING IN JAVA	Semester	IV
Subject Code	21UCS06	Specialization	NA
Type	Core: Theory	L:T:P:C	60:4:0:4

COURSE OBJECTIVE:

1. To understand the concepts of Object Oriented Programming.
2. To learn about the control structures, class with attributes and methods used in Java.

CO Number	CO Statement	Knowledge Level
CO1	Remember the concepts of OOPS.	K1
CO2	Understand the basic Terminologies of languages and statements.	K2
CO3	Demonstrate the use classes and objects.	K2,K3
CO4	Evaluate the packages and exception handling methods.	K3,K4
CO5	Analyze the I/O Streams and graphics classes.	K5

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

Subject Title	PROGRAMMING IN JAVA	Semester	IV	
Subject Code	21UCS06	Specialization	NA	
Type	Core: Theory	L:T:P:C	60:4:0:4	
Unit	Contents	Levels	Sessions	
I	Introduction to OOPS: Paradigms of Programming Languages – Basic concepts of Object Oriented Programming – Differences between Procedure Oriented Programming and Object Oriented programming - Benefits of OOPs – Application of OOPs. Java: History – Java features – Java Environment – JDK – API. Introduction to Java: Types of java program – Creating and Executing a Java program – Java Tokens- Java Virtual Machine (JVM) – Command Line Arguments –Comments in Java program.	K1	12	
II	Elements: Constants – Variables – Data types - Scope of variables – Type casting – Operators: Special operators – Expressions – Evaluation of Expressions. Decision making and branching statements- Decision making and Looping– break – labeled loop – continue Statement. Arrays: One Dimensional Array – Creating an array – Array processing – Multidimensional Array – Vectors – ArrayList – Advantages of Array List over Array Wrapper classes.	K2	12	
III	Class and objects: Defining a class – Methods – Creating objects – Accessing class members – Constructors – Method overloading – Static members –Nesting of Methods – this keyword – Command line input. Inheritance: Defining inheritance –types of inheritance– Overriding methods – Final variables and methods – Final classes – Final methods - Abstract methods and classes – Visibility Control- Interfaces: Defining interface – Extending interface - Implementing Interface - Accessing interface variables. Strings: String Array – String Methods – String Buffer Class.	K2,K3	12	
IV	Packages: Java API Packages – System Packages – Naming Conventions –Creating & Accessing a Package – Adding Class to a Package – Hiding Classes. Exception Handling: Limitations of Error handling – Advantages of Exception Handling - Types of Errors – Basics of Exception Handling – try blocks – throwing an exception – catching an exception – finally statement. Multithreading: Creating Threads – Life of a Thread – Defining & Running Thread – Thread Methods – Thread Priority – Synchronization –Implementing Runnable interface – Thread Scheduling.	K3,K4	12	
V	I/O Streams: File – Streams – Advantages - The stream classes – Byte streams –Character streams. Applets: Introduction – Applet Life cycle – Creating & Executing an Applet –Applet tags in HTML – Parameter tag – Aligning the display - Graphics Class: Drawing and filling lines – Rectangles – Polygon – Circles –	K5	12	

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

	Arcs – Line Graphs – Drawing Bar charts AWT Components and Even Handlers: Abstract window tool kit – Event Handlers – Event Listeners – AWT Controls and Event Handling: Labels – Text Component – Action Event – Buttons – Check Boxes – Item Event – Choice– Scrollbars – Layout Managers- Input Events – Menus.		
	Learning Resources		
Text books	1. E. Balagurusamy, “ <i>Programming with Java</i> ”, TataMc-Graw Hill, 5 th Edition. 2. Sagayaraj, Denis, Karthick and Gajalakshmi, “ <i>Java Programming for Core and advanced learners</i> ”, Universities Press (INDIA) Private Limited 2018.		
Reference Books	Herbert Schildt, “ <i>The complete reference Java</i> ”, TataMc-Graw Hill, 7 th Edition.		
Website / Link	1. NPTEL & MOOC courses titled Java https://nptel.ac.in/courses/106105191/ 2. https://www.geeksforgeeks.org/ 3. https://www.tutorialspoint.com/java/		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	M	S	L	M
CO4	M	S	M	S
CO5	S	S	-	-

S- Strong , M- Medium , L – Low

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

Subject Title	PRACTICAL IV- JAVA PROGRAMMING	Semester	IV
Subject Code	21UCSP04	Specialization	NA
Type	Core: Practical	L:T:P:C	45:0:3:2

COURSE OBJECTIVE:

1. To impart Practical Training in JAVA Programming Language.
2. Familiarize the different control and decision making statements in JAVA.
3. Build programs using Packages.
4. Provide knowledge on working with Exception handling functions.

LIST OF PROGRAMS:

1. Write a program to find the Area of Square, Rectangle and Circle using Method Overloading.
2. Write a program to sort the list of numbers using Command Line Arguments.
3. Write a program to multiply the given two matrices.
4. Write a program to design a class to represent a bank account. Include the following:

Data Members: Name of the depositor, Account number, Type of account, and Balance amount in the account.

Methods: To assign initial values, To deposit an amount, To withdraw an amount after checking balance, and To display the name and balance.
5. Write a program that import the user defined package and access the Member variable of classes that contained by Package.
6. Write a program to handle the Exception using try and multiple catch blocks.
7. Write a program to illustrate the use of multi threads.
8. Write a program to create student registration form using applet with Name, Address, Sex, Class, Email-id.
9. Write a program to draw the line, rectangle, oval, text using the graphics method.
10. Write a program to create a sequential file that could store details about five products. Details include product code, cost, and number of items available and are provided through the keyboard. Compute and print the total value of all the five products

COURSE OUTCOME:

1. Study all the Basic Statements in java Programming.
2. Practice the usage of branching and looping statements.
3. Apply Packages and Interfaces.
4. Analysis the use of graphics tools in JAVA.

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

Subject Title	SBEC II : IMAGE EDITING TOOL	Semester	IV
Subject Code	21UCSSP02	Specialization	NA
Type	SBEC: Practical	L:T:P:C	45:0:3:3

COURSE OBJECTIVE:

1. To impart Practical Training in PHOTOSHOP image editing Tool.
2. Familiarize the different text and filter effects.
3. Build programs using stamp tools.
4. Provide knowledge on working with several layouts.

LIST OF PROGRAMS:

1. Design a greeting card for birthday using different text effects.
2. Apply various filter effects to an image.
3. Design the front page of the college calendar using gradient.
4. Create a pattern using pattern stamp tool and clone stamp tool.
5. Design a web page layout.
6. Design a bunch of flowers.
7. Perform/Simulate Plastic Surgery on any part of the face.
8. Create See-through texts
9. Convert Black and White Photo to Color Photo
10. Fill a text with an appropriate image (Example: The word “Flower” should be filled with some flower image.)

COURSE OUTCOME:

1. Study all the Basic tools in Photo Shop.
2. Practice the usage of web page creation and useable objects.
3. Apply various effects on image.
4. Analysis the use of coloring on images.

**Semester IV: Add-on Course
Internship Programme**

OBJECTIVES:

- To make students acquire practical knowledge by going to a company and learn in a live environment
- To make students learn team work and work ethics
- To make students to know the recent trends in Web/Mobile Application Development, Networking or any other area relevant to their study
- To make students analyze their skills and interests
- To help students examine academic and career goals

OUTCOME:

At the end of this internship programme the students will be able to

- apply theory to real life
- work as a part of team
- learn from the company experts
- learn latest trending technologies
- come out with a high morale
- enrich CV

About the internship programme: The internship programme provides students with practical, real-world experience and a valuable complement to their academic training. It enhances the students' skills in problem solving by making him/her work in a live environment in which systematic problem solving methods are practised.

Duration: Internship requires students to spend a minimum of 15 days (during vacation) employed, full-time, as IT interns or trainees during vacation at the end of fourth semester. During this period, they are engaged in work of direct relevance to their programme of study.

Areas: Some of the fields that are open to students include:

- Online Publishing and Editing
- Online Advertising
- Web / Mobile Application Development
- E-Marketing / Online Marketing
- Any other field related to Computer Science / Applications / Information Science

Certificate: A certificate is to be obtained from the organization in which the student undergoes internship programme. This certificate is to be submitted to the college within fifteen days after the college reopens for the next semester.

Credits: The Internship programme does not carry any credit.

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

Subject Title	OPERATING SYSTEM	Semester	V
Subject Code	21UCS07	Specialization	NA
Type	Core: Theory	L:T:P:C	71:5:0:4

COURSE OBJECTIVE:

1. To understand the fundamental concepts and role of Operating System.
2. To learn the Process Management and Scheduling Algorithms
3. To understand the Memory Management policies
4. To gain insight on I/O and File management techniques

CO Number	CO Statement	Knowledge Level
CO1	Understand the structure and functions of Operating System	K1
CO2	Compare the performance of Scheduling Algorithms	K2
CO3	Understand and organize the memory	K1,K3
CO4	Evaluate the deadlock measures	K3,K4
CO5	Analyze the I/O hardware and software	K5

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

Subject Title	OPERATING SYSTEM	Semester	V
Subject Code	21UCS07	Specialization	NA
Type	Core: Theory	L:T:P:C	71:5:0:4
Unit	Contents	Levels	Sessions
I	Introduction – History of operating system- Different kinds of operating system – Operation system concepts - System calls- Operating system structure.	K1	11
II	Processes and Threads: Processes – threads – thread model and usage – inter process communication.	K2	15
III	Scheduling - Memory Management: Memory Abstraction – Virtual Memory - page replacement algorithms.	K1,K3	15
IV	Deadlocks: Resources- introduction to deadlocks – deadlock detection and recovery – deadlocks avoidance – deadlock prevention. Multiple processor system: multiprocessors – multi computers.	K3,K4	15
V	Input/Output: principles of I/O hardware - principles of I/O software. Files systems: Files – directories - files systems implementation – File System Management and Optimization.	K5	15
	Learning Resources		
Text Books	Andrew S. Tanenbaum, “Modern Operating Systems”, 2ndEdition, PHI private Limited, New Delhi, 2008.		
Reference Books	1. William Stallings, “Operating Systems – Internals & Design Principles”, 5th Edition, Prentice – Hall of India private Ltd, New Delhi, 2004. 2. Sridhar Vaidyanathan, “Operating System”, 1st Edition, Vijay Nicole Publications, 2014.		
Website / Link	1. www.wikipedia.org/wiki/Operating_system 2. http://www.fretechbooks.com/introduction-to-operating-systems-t340.html		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

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

Subject Title	WEB TECHNOLOGY	Semester	V
Subject Code	21UCS08	Specialization	NA
Type	Core: Theory	L:T:P:C	71:5:0:4

COURSE OBJECTIVE:

1. To understand the fundamental concepts and role of Web Technology.
2. To learn the Process of CSS.
3. To understand the web pages.
4. To gain insight on script objects.

CO Number	CO Statement	Knowledge Level
CO1	Understand the structure of the documents in Web.	K1
CO2	Remember and understand the table handling tags.	K2
CO3	Understand and organize CSS.	K1,k3
CO4	Implement scripts in web page.	K3,K4
CO5	Evaluate script objects.	K5

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

Subject Title	WEB TECHNOLOGY	Semester	V	
Subject Code	21UCS08	Specialization	NA	
Type	Core: Theory	L:T:P:C	71:5:0:4	
Unit	Contents		Levels	Sessions
I	Structuring Documents for the Web: Introducing HTML and XHTML, Basic Text Formatting, Presentational Elements, Phrase Elements, Lists, Editing Text, Core Elements and Attributes, Attribute Groups. Links and Navigation: Basic Links, Creating Links with the <a> Element, Advanced E- mail Links. Images, Audio, and Video: Adding Images Using the Element, Using Images as Links Image Maps, Choosing the Right Image Format, Adding Flash, Video and Audio to your web pages.		K1	15
II	Tables: Introducing Tables, Grouping Section of a Table, Nested Tables, Accessing Tables. Forms: Introducing Forms, Form Controls, Sending Form Data to the Server. Frames: Introducing Frameset, <frame> Element, Creating Links Between Frames, Setting a Default Target Frame Using <base> Element, Nested Framesets, Inline or Floating Frames with <iframe>.		K2	15
III	Cascading Style Sheets: Introducing CSS, Where you can Add CSS Rules. CSS Properties: Controlling Text, Text Formatting, Text Pseudo Classes, Selectors, Lengths, Introducing the Box Model. More Cascading Style Sheets: Links, Lists, Tables, Outlines, The :focus and :activate Pseudo classes Generated Content, Miscellaneous Properties, Additional Rules, Positioning and Layout wit, Page Layout CSS , Design Issues.		K1,K3	15
IV	Java Script: How to Add Script to Your Pages, Variables and Data Types – Statements and Operators, Control Structures, Conditional Statements, Loop Statements – Functions - Message box, Dialog Boxes, Alert Boxes, Confirm Boxes, Prompt Boxes		K3,K4	15
V	Working with JavaScript: Practical Tips for Writing Scripts, JavaScript Objects: Window Object - Document object - Browser Object - Form Object - Navigator object Screen object - Events, Event Handlers, Forms – Validations, Form Enhancements, JavaScript Libraries.		K5	11
	Learning Resources			
Text Books	Jon Duckett, Beginning HTML, XHTML, CSS and Java script , Wiley Publishing			
Reference Books	1.Chris Bates, “Web Programming”, Wiley Publishing 3d Edition. 2. M. Srinivasan, “Web Technology: Theory and Practice”, Pearson Publication			
Website/ Link	www.tutorialspoint.com/internet_technologies/index.htm			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

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

Subject Title	PRACTICAL V : WEB TECHNOLOGY LAB	Semester	V
Subject Code	21UCSP05	Specialization	NA
Type	Core: Practical	L:T:P:C	45:0:3:2

COURSE OBJECTIVE:

1. To impart Practical Training in Control panel tools.
2. Familiarize with HTML Tags.
3. Build programs using Java script.
4. Provide knowledge on working with events and methods.

LIST OF PROGRAMS:

1. Create a form having number of elements (Textboxes, Radio buttons, Checkboxes, and so on). Write JavaScript code to count the number of elements in a form.
2. Create a HTML form that has number of Textboxes. When the form runs in the Browser fill the Text boxes with data. Write JavaScript code that verifies that all textboxes has been filled. If a textboxes has been left empty, popup an alert indicating which textbox has been left empty.
3. Develop a HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluates the expression and Displays the result.
4. Create a page with dynamic effects. Write the code to include layers and basic animation.
5. Write a JavaScript code to find the sum of N natural Numbers. (Use user-defined function).
6. Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.
7. Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.
8. Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.
9. Create a form consists of a two Multiple choice lists and one single choice list
 - (a)The first multiple choice list, displays the Major dishes available.
 - (b)The second multiple choice list, displays the Starters available.
 - (c)The single choice list, displays the Soft drinks available.

COURSE OUTCOME:

1. Study all the Basic tools.
2. Practice the usage of web page creation and useable objects.
3. Apply various effects on webpage.
4. Analysis the use of java script and html code.

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

Subject Title	LINUX AND SHELL PROGRAMMING	Semester	V
Subject Code	21UCS09	Specialization	NA
Type	Core: Theory	L:T:P:C	71:5:0:4

COURSE OBJECTIVE:

1. To understand the Linux OS.
2. Study the shell programming and text formatting.

CO Number	CO Statement	Knowledge Level
CO1	Understand the structure and functions of Linux Operating System.	K1
CO2	Understand the basic commands of Shell.	K2
CO3	Implement text processing and arrays.	K3
CO4	Evaluate shell scripting.	K4
CO5	Analyze decision making and scripting in Linux.	K5

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

Subject Title	LINUX AND SHELL PROGRAMMING	Semester	V
Subject Code	21UCS09	Specialization	NA
Type	Core: Theory	L:T:P:C	71:5:0:4
Unit	Contents	Levels	Sessions
I	Introduction to Linux : operating system and Linux - History of Linux and Unix - Linux overview - Linux Distributions - Vi editors..	K1	15
II	Shell - comparison of Shells - working in the shell - Learning Basic Commands - Compiler and interpreter differences - various directories - Drilling deep into process management, job control and Automation.	K2	15
III	Text processing - Text filtering Tools - working with commands. - Logical operators. - local variables and its scope - working with arrays.	K3	15
IV	Tricks with shell scripting - interactive shell scripts - The here document and << operator - sort command - WC command - file handling - Debugging -	K4	15
V	Automating Decision - Making in scripts - Automating repetitive tasks - working with Functions.	K5	15
Learning Resources			
Text Books	1. The Complete Reference LINUX - Richard L. Petersen, McGraw Hill, 2. LINUX shell scripting by Ganesh Naik, Packt Publishing Ltd.,		
Reference Books	Yashwanth Kanetkar, “ Unix Shell Programming”, B.P.B Publications 1 st Edition Reprint 2012		
Website / Link	1. www.wikipedia.org/wiki/Operating_system 2. http://www.freetchbooks.com/introduction-to-operating-systems-t340.html		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	---
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

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

Subject Title	PRACTICAL IV : SHELL PROGRAMMING	Semester	V
Subject Code	21UCSP06	Specialization	NA
Type	Core: Practical	L:T:P:C	60:0:4:2

COURSE OBJECTIVE:

1. To impart Practical Training in file commands.
2. Familiarize with shell script for system configuration.
3. Build programs using filter commands.
4. Provide knowledge on working with simple programs with shell script.

LIST OF PROGRAMS:

1. Write a shell script to stimulate the file commands: rm, cp, cat, mv, cmp, wc, split, diff.
2. Write a shell script to show the following system configuration:
 - Currently logged user and his log name.
 - Current shell, home directory, Operating System type, current Path setting, current working directory.
 - Show currently logged number of users, show all available shells
 - Show CPU information like processor type, speed
 - Show memory information.
3. Write a Shell Script to implement the following: pipes, Redirection and tee commands.
4. Write a Shell script for displaying current date, user name, file listing and directories by getting user choice.
5. Write a Shell script to implement the filter commands.
6. Write a Shell script to remove the files which has file size as zero bytes.
7. Write a Shell script to find the sum of the individual digits of a given number.
8. Write a Shell script to find the greatest among the given set of numbers using command line arguments.
9. Write a Shell script for palindrome checking.
10. Write a Shell script to print the multiplication table of the given argument using for-loop.

COURSE OUTCOME:

1. Study all the Basic commands.
2. Practice the usage of shell script for system configuration.
3. Apply various effects piping and redirection process.
4. Analysis the use of shell script for simple process.

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

Subject Title	SBEC III : MOBILE APPLICATION DEVELOPMENT LAB	Semester	V
Subject Code	21UCSSP03	Specialization	NA
Type	SBEC: Practical	L:T:P:C	45:0:3:3

COURSE OBJECTIVE:

1. To impart Practical Training in android developer tools.
2. Build programs using eclipse environment.
3. Provide knowledge on working with simple android apps.

LIST OF PROGRAMS:

1. Sample application about Layouts.
2. Sample application about Internets.
3. Sample application about User Interfaces.
4. Sample application about Animations.
5. Create calculator app in Android.
6. Create sample android Camera Application.
7. Create basic list view demo in Android.
8. Create Google map in Android.

COURSE OUTCOME:

1. Study all the Basic Tools.
2. Practice the usage of control panel objects.
3. Apply various commands for layouts and animations.
4. Analysis the use of SQLite I.

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

Subject Title	PROGRAMMING IN PYTHON	Semester	VI
Subject Code	21UCS10	Specialization	NA
Type	Core: Theory	L:T:P:C	86:6:0:5

COURSE OBJECTIVE:

1. To understand the basic components of computer programming using the Python language.
2. To demonstrate significant experience with the Python program development environment.

CO Number	CO Statement	Knowledge Level
CO1	Understand the Basic Programming Logic.	K1
CO2	Understand the basic Statements.	K2
CO3	Implement Files and SQL.	K3
CO4	Evaluate Graphics in python.	K4
CO5	Analyze Version control system.	K5

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

Subject Title	PROGRAMMING IN PYTHON	Semester	VI	
Subject Code	21UCS10	Specialization	NA	
Type	Core: Theory	L:T:P:C	86:6:0:5	
Unit	Contents	Levels	Sessions	
I	Python – origins – features – variable and assignment - Python basics – statement and syntax – Identifiers – Basic style guidelines – Python objects – Standard types and other built-in types – Internal types – Standard type operators – Standard type built-in functions.	K1	13	
II	Numbers – Introduction to Numbers – Integers – Double precision floating point numbers – Complex numbers – Operators – Numeric type functions – Sequences: Strings, Lists and Tuples – Sequences – Strings and strings operators – String built-in methods – Lists – List type Built in Methods – Tuples.	K2	13	
III	Mapping type: Dictionaries – Mapping type operators – Mapping type Built-in and Factory Functions - Mapping type built in methods – Conditionals and loops – if statement – else Statement – elif statement – conditional expression – while statement – for statement – break statement – continue statement – pass statement – Iterators and the iter() function - Files and Input/Output – File objects – File built-in functions – File built-in methods – File built-in attributes – Standard files – command line arguments.	K3	20	
IV	Functions and Functional Programming – Functions – calling functions – creating functions – passing functions – Built-in Functions: apply(), filter(), map() and reduce() - Modules – Modules and Files – Modules built-in functions - classes – class attributes – Instances.	K4	20	
V	Database Programming – Introduction - Basic Database Operations and SQL - Example of using Database Adapters, Mysql - Regular Expression – Special Symbols and Characters – REs and Python.	K5	20	
	Learning Resources			
Text Books	Title of Book Publisher Year of Publication 1 Wesley J. Chun Core Python Programming Pearson Education Publication 2012			
Reference Books	1.Wesley J. Chun Core Python Application Programming Pearson Education Publication 2015 2.Eric Matthes Python crash course William pollock 2016 3.Zed Shaw Learn Python the hard way Addition Wesley 2017 4.Mark Lutz Python pocket reference O'Reilly Media 2014 Pedagogy			
Website / Link	1. https://www.tutorialspoint.com/python/ 2. www.spoken-tutorial.org			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	M	---
CO2	M	M	M	S
CO3	S	M	L	M
CO4	M	S	M	S
CO5	S	M	L	L

S- Strong , M- Medium , L – Low

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

Subject Title	PYTHON PROGRAMMING	Semester	VI
Subject Code	21UCSP07	Specialization	NA
Type	Core: Practical	L:T:P:C	60:0:4:3

COURSE OBJECTIVE:

1. To impart Practical Training in basic python statements.
2. Familiarize with control flow tools.
3. Build programs using data structure concepts.
4. Provide knowledge on working with exception and string handling.

LIST OF PROGRAMS:

1. Create a simple calculator to do all the arithmetic operations.
2. Write a program to use control flow tools like if.
3. Write a program to use for loop.
4. Data structures
 - a. use list as stack.
 - b. use list as queue.
 - c. tuple, sequence.
5. Create new module for mathematical operations and use in your program.
6. Write a program to read and write files, create and delete directories.
7. Write a program with exception handling.
8. Write a program using classes.
9. Connect with MySQL and create address book.
10. Write a program using string handling and regular expressions.

COURSE OUTCOME:

1. Study all the Basic commands.
2. Practice the usage of control flow statements.
3. Apply various commands in files and directories.
4. Analysis the use of MYSQL to connect database.

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

Subject Title	QUANTITATIVE APTITUDE	Semester	VI
Subject Code	21UCSS01	Specialization	NA
Type	Theory	L:T:P:C	41:3:0:3

COURSE OBJECTIVE:

1. To improve the quantitative skills of the students.
2. To prepare the students for various competitive exams.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic mathematical functions.	K1
CO2	Understand the problems of ages , profits and loss.	K2
CO3	Demonstrate the relationship of time with work and distance.	K3
CO4	Implement permutation and combinations problem.	K4
CO5	Analyze data representation methods.	K5

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

Subject Title	QUANTITATIVE APTITUDE	Semester	VI	
Subject Code	21UCSS01	Specialization	NA	
Type	SBEC: Theory	L:T:P:C	41:3:0:3	
Unit	Contents		Levels	Sessions
I	Numbers - HCF and LCM of numbers - Decimal fractions - Simplification - Square roots and cube roots - Average - problems on Numbers.		K1	8
II	Problems on Ages - Surds and Indices - percentage - profits and loss - ratio and proportion - partnership - Chain rule.		K2	8
III	Time and work - pipes and cisterns - Time and Distance - problems on trains -Boats and streams - simple interest - compound interest - Logarithms - Area - Volume and surface area - races and Games of skill.		K3	8
IV	Permutation and combination - probability - True Discount - Bankers Discount - Height and Distances - Odd man out & Series.		K4	8
V	Calendar - Clocks - stocks and shares - Data representation - Tabulation - Bar Graphs - Pie charts - Line graphs.		K5	9
	Learning Resources			
Text Books	“Quantitative Aptitude”, R.S. AGARWAL., S. Chand & Company Ltd.,			
Reference Books	“Quantitative Aptitude for Competitive examinations” Abhijit Guha – 4 th edition – Tata MH			
Website / Link	https://textbook.com/aptitude www.carrierbless.com/aptitude/qa/home.php			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	M	---
CO2	M	M	M	S
CO3	S	M	L	M
CO4	M	S	M	S
CO5	S	M	L	L

S- Strong , M- Medium , L – Low

OBJECTIVES:

The aim of the mini project is that the student has to understand the real time software development environment. The student should gain a thorough knowledge in the problem and language / software which he/she has selected for their project work.

Project Planning:

B.Sc (Computer Science / Information Science)/BCA Mini Project is an involved exercise, which has to be planned well in advance. The topic should be chosen in the beginning of final year itself. Related reading training and discussions of project should be completed in the first term of final year.

I Selection of Team

To meet the stated objectives, it is imperative that mini project is done through a team effort. Though it would be ideal to select the team members at random and this should be strongly recommended, due to practical consideration students may also be given the choice of forming themselves into teams with Two members. A team leader shall be selected. Team shall maintain the minutes of meeting of the team members and ensure that tasks have been assigned to every team member in writing. Team meeting minutes shall form a part of the project report. Even if students are doing project as groups, each one must independently take different modules of the work and must submit the report.

II Selection of Tools

No restrictions shall be placed on the students in the choice of platform/tools/languages to be utilized for their project work, though open source is strongly recommended, wherever possible. No value shall be placed on the use of tools in the evaluation of the project.

III Project Evaluation:

Continuous Internal Assessment	:	40 Marks
Evaluation (External)	:	40 Marks
Viva-voce (jointly)	:	20 Marks

There shall be a common written examination conducted for all the candidates in each group together for a minimum of 10 minutes.

- (i) Requirement Specification of Project
- (ii) Design of Project
- (iii) Testing and Implementation of Project

IV REGULATIONS OF PROJECT WORK

- Three copies of the project report must be submitted by each student..
- The final outer dimensions of the project report shall be 21cm X 30 cm.
- Only hard binding should be done. The text of the report should be set in 12 pt, Times New Roman, 1.5 spaced.
- Headings should be set as follows: CHAPTER HEADINGS 16 pt, Arial, Bold, All caps, Centered.

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

- Section Headings 14 pt Bookman old style, Bold, Left adjusted.
- Section Sub-heading 12 pt, Bookman old style.
- Title of figures tables etc are done in 12 point, Times New Roman, Italics, centered.
- Only 1.5 space need be left above a section or subsection heading and no space may be left after them.
- References shall be IEEE format (see any IEEE magazine for detail) While doing the project keep note of all books you refer, in the correct format and include them in alphabetical order in your reference list.
- The Candidate should submit the filled in format as given in Annexure-I to the department for approval during the First Week of December.
- Periodically the project should be reviewed.
- A Sample format is enclosed in Annexure-II.
- Format of the Title page and Certificate are enclosed in Annexure III.
- The students may use power point presentation during their viva voce examination.

ANNEXURE - I

PERIYAR UNIVERSITY

Name of the College :

Programme :

Name of the Student :

Register Number :

Title of the Project Work :

Address of Organization / Institution :

Name of the Internal Guide :

Qualification :

Place :

Date :

Signature of Internal Guide

ANNEXURE II

CONTENTS

Chapter	Page No.
COLLEGE BONAFIDE CERTIFICATE	
ACKNOWLEDGEMENT	
SYNOPSIS	
1. INTRODUCTION	
1.1 ORGANIZATION PROFILE (optional)	
1.2 SYSTEM SPECIFICATION	
1.2.1 HARDWARE CONFIGURATION	
1.2.2 SOFTWARE SPECIFICATION	
2. SYSTEM STUDY	
2.1 EXISTING SYSTEM	
2.1.1 DESCRIPTION	
2.1.2 DRAWBACKS	
2.2 PROPOSED SYSTEM	
2.2.1 DESCRIPTION	
2.2.2 FEATURES	
3. SYSTEM DESIGN AND DEVELOPMENT	
3.1 FILE DESIGN	
3.2 INPUT DESIGN	
3.3 OUTPUT DESIGN	
3.4 CODE DESIGN	
3.5 DATABASE DESIGN	
3.6 SYSTEM DEVELOPMENT	
3.6.1 DESCRIPTION OF MODULES	
(Detailed explanation about the project work)	
4. TESTING AND IMPLEMENTATION	
5. CONCLUSION	
6. BIBLIOGRAPHY	
APPENDICES	
A. DATA FLOW DIAGRAM	
B. TABLE STRUCTURE	
C. SAMPLE CODING	
D. SAMPLE INPUT	
E. SAMPLE OUTPUT	

ANNEXURE III

A. Format of the title page

TITLE OF THE PROJECT WORK

A Project Work submitted in partial fulfillment of
the requirements for the degree of

**Bachelor of Science in Computer Science /
Information Science**

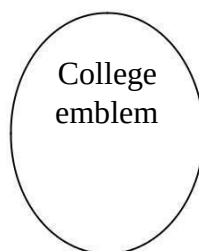
to the

Periyar University, Salem - 11

By

NAME OF THE STUDENT

REG. NO.



COLLEGE NAME

(AFFILIATED TO PERIYAR UNIVERSITY)

PLACE with Pin Code

MONTH – YEAR

B. Format of the Certificate

Name and Address of the Internal Guide

Date

CERTIFICATE

This is to certify that the Project Work entitled _____
submitted in partial fulfillment of the requirements of the degree of Bachelor of Science in Computer
Sciences to the Periyar University, Salem is a record of bonafide work carried out by
..... Reg. No.under my supervision and guidance.

Internal Guide

Head of the Department

Date of Viva-voice:

Internal Examiner

External Examiner

ELECTIVE I

Subject Title	SEMESTER – V PAPER - I DATA MINING AND WAREHOUSING	Semester	V
Subject Code	21UCSE01	Specialization	NA
Type	Elective : Theory	L:T:P:C	71:5:0:4

COURSE OBJECTIVE:

1. To introduce the basic concepts and techniques of Data Mining.
2. To study the basic concepts of cluster analysis.
3. To study a set of typical clustering methodologies, algorithms and applications.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts of data mining and data preprocessing.	K1
CO2	Understanding the data mining primitives.	K2
CO3	Apply mining association rule.	K3
CO4	Evaluate classification and Prediction.	K4
CO5	Implement cluster analysis.	K5

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

Subject Title	SEMESTER – V PAPER - I DATA MINING AND WAREHOUSING	Semester	V	
Subject Code	21UCSE01	Specialization	NA	
Type	Elective : Theory	L:T:P:C	71:5:0:4	
Unit	Contents		Levels	Sessions
I	Introduction: Data mining application – data mining techniques – data mining case studies- the future of data mining – data mining software - Association rules mining: basics- task and a naïve algorithm- Apriori algorithm – improve the efficient of the Apriori algorithm – mining frequent pattern without candidate generation (FP-growth) – performance evaluation of algorithms.		K1	15
II	Classification : Introduction – decision tree – over fitting and pruning - DT rules- Naive bayes method- estimation predictive accuracy of classification methods - other evaluation criteria for classification method – classification software.		K2	15
III	Cluster analysis: cluster analysis – types of data – computing distances-types of cluster analysis methods- partitioned methods – hierarchical methods – density based methods – dealing with large databases – quality and validity of cluster analysis methods - cluster analysis software.		K3	15
IV	Web data mining: Introduction- web terminology and characteristics- locality and hierarchy in the web- web content mining-web usage mining- web structure mining – web mining software - Search engines: Search engines functionality- search engines architecture – ranking of web pages.		K4	15
V	Data warehousing: Introduction – Operational data sources- data warehousing - Data warehousing design – Guidelines for data warehousing implementation - Data warehousing metadata - Online analytical processing (OLAP): Introduction – OLAP characteristics of OLAP system – Multidimensional view and data cube - Data cube implementation - Data cube operations OLAP implementation guidelines.		K5	11
Learning Resources				
Text Books	G.K. Gupta, “Introduction to Data mining with case studies”, 2 nd Edition, PHI Private limited, New Delhi, 2011			
Reference Books	Arun K Pujari, “Data Mining Techniques”, 10 th impression, University Press, 2008.			
Website /Link	NPTEL & MOOC courses titled Data Mining 1. https://nptel.ac.in/courses/106105174/ 2. http://cecs.louisville.edu/datamining/PDF/0471228524.pdf			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	M	-
CO2	S	L	M	S
CO3	S	M	L	M
CO4	M	S	-	S
CO5	S	L	M	S

S- Strong , M- Medium , L – Low

Subject Title	SEMESTER – V PAPER – II SOFTWARE PROJECT MANAGEMENT	Semester	V
Subject Code	21UCSE02	Specialization	NA
Type	Elective : Theory	L:T:P:C	71:5:0:4

COURSE OBJECTIVE:

1. To define and highlight importance of software project management.
2. To formulate and define the software management.
3. To evaluate metrics & strategy in managing projects.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts of software project management.	K1
CO2	Understanding domain processes in project management.	K1,K2
CO3	Apply task and activities.	K3
CO4	Evaluate issues in resource management.	K3,K4
CO5	Implement quality requirements.	K5

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

Subject Title	SEMESTER – V PAPER - II SOFTWARE PROJECT MANAGEMENT	Semester	V
Subject Code	21UCSE02	Specialization	NA
Type	Elective : Theory	L:T:P:C	71:5:0:4
Unit	Contents	Levels	Sessions
I	Introduction to Competencies - Product Development Techniques - Management Skills - Product Development Life Cycle - Software Development Process and models - The SEI CMM - International Organization for Standardization.	K1	15
II	Managing Domain Processes - Project Selection Models - Project Portfolio Management - Financial Processes - Selecting a Project Team - Goal and Scope of the Software Project - Project Planning - Creating the Work Breakdown Structure - Approaches to Building a WBS - Project Milestones - Work Packages - Building a WBS for Software.	K1,K2	15
III	Tasks and Activities - Software Size and Reuse Estimating - The SEI CMM - Problems and Risks - Cost Estimation - Effort Measures - COCOMO: A Regression Model - COCOMO II - SLIM: A Mathematical Model - Organizational Planning - Project Roles and Skills Needed.	K3	15
IV	Project Management Resource Activities - Organizational Form and Structure - Software Development Dependencies - Brainstorming - Scheduling Fundamentals - PERT and CPM Leveling Resource Assignments - Map the Schedule to a Real Calendar - Critical Chain Scheduling.	K3,K4	15
V	Quality: Requirements – The SEI CMM - Guidelines - Challenges - Quality Function Deployment - Building the Software Quality Assurance - Plan - Software Configuration Management: Principles - Requirements - Planning and Organizing - Tools - Benefits - Legal Issues in Software - Case Study	K5	11
	Learning Resources		
Text Books	Robert T. Futrell, Donald F. Shafer, Linda I. Safer, “ <i>Quality Software Project Management</i> ”, Pearson Education Asia 2002.		
Reference Books	1. Pankaj Jalote, “ <i>Software Project Management in Practice</i> ”, Addison Wesley 2002. 2. Hughes, “ <i>Software Project Management</i> ”, Tata McGraw Hill 2004, 3 rd Edition.		
Website / Link	NPTEL & MOOC courses titled Software Project Management https://nptel.ac.in/courses/106/105/106105218/		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	L	L
CO2	S	M	L	L
CO3	S	M	L	M
CO4	M	S	L	S
CO5	S	M	M	L

S- Strong , M- Medium , L – Low

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

Subject Title	SEMESTER – V PAPER - III SOFTWARE ENGINEERING	Semester	V
Subject Code	21UCSE03	Specialization	NA
Type	Elective : Theory	L:T:P:C	71:5:0:4

COURSE OBJECTIVE:

1. To introduce the software development life cycles.
2. To introduce concepts related to structured and objected oriented analysis & design.
3. To provide an insight into UML and software testing techniques.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts of software Engineering.	K1
CO2	Understanding requirement analysis.	K1,K2
CO3	Apply software design.	K3
CO4	Evaluate with UML.	K4
CO5	Implement coding and testing.	K5

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

Subject Title	SEMESTER – V PAPER - III SOFTWARE ENGINEERING	Semester	V
Subject Code	21UCSE03	Specialization	NA
Type	Elective : Theory	L:T:P:C	71:5:0:4
Unit	Contents	Levels	Sessions
I	Introduction – Evolution – Software Development projects – Emergence of Software Engineering. Software Life cycle models – Waterfall model – Rapid Application Development – Agile Model – Spiral Model	K1	15
II	Requirement Analysis and Specification – Gathering and Analysis – SRS – Formal System Specification	K1,K2	15
III	Software Design – Overview – Characteristics – Cohesion & Coupling – Layered design – Approaches Function Oriented Design – Structured Analysis – DFD – Structured Design – Detailed design	K3	15
IV	Object Modeling using UML – OO concepts – UML – Diagrams – Use case, Class, Interaction, Activity, State Chart – Postscript	K4	15
V	Coding & Testing – coding – Review – Documentation – Testing – Black-box, White-box, Integration, OO Testing, Smoke testing.	K5	11
Learning Resources			
Text Books	Rajib Mall, “ <i>Fundamentals of Software Engineering</i> ”, PHI 2018, 5th Edition.		
Reference Books	1. Roger S. Pressman, “ <i>Software Engineering - A Practitioner’s Approach</i> ”, McGraw Hill 2010, 7th Edition. 2. Pankaj Jalote, “ <i>An Integrated Approach to Software Engineering</i> ”, Narosa Publishing House 2011, 3rd Edition.		
Website / Link	NPTEL online course – Software Engineering - https://nptel.ac.in/courses/106105182/		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	M	L
CO2	S	M	L	L
CO3	S	M	M	L
CO4	M	S	L	L
CO5	S	M	M	L

S- Strong , M- Medium , L – Low

ELECTIVE II

Subject Title	SEMESTER – VI PAPER – I MOBILE COMPUTING	Semester	VI
Subject Code	21UCSE04	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4

COURSE OBJECTIVE:

1. To make the student to understand the concepts of mobile computing.
2. To familiar with the network protocol stack.
3. To be exposed to Ad-Hoc networks.
4. Gain knowledge about different mobile platforms and application development.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts of mobile computing.	K1
CO2	Understanding mobile IP.	K1,K2
CO3	Apply Mobile Telecommunication system.	K3
CO4	Evaluate mobile ad hoc system.	K4
CO5	Implement mobile operating system.	K5

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

Subject Title	SEMESTER – VI PAPER – I MOBILE COMPUTING	Semester	VI
Subject Code	21UCSE04	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4
Unit	Contents	Levels	Sessions
I	Introduction-Mobile Computing – Mobile Computing Vs wireless Networking – Mobile Computing Applications – Characteristics of Mobile computing – Structure of Mobile Computing Application. MAC Protocols – Wireless MAC Issues. Fixed Assignment Schemes – Random Assignment Schemes – Reservation Based Schemes	K1	14
II	Mobile Internet Protocol and Transport Layer-Overview of Mobile IP – Features of Mobile IP – Key Mechanism in Mobile IP – route Optimization. Overview of TCP/IP – Architecture of TCP/IP- Adaptation of TCP Window – Improvement in TCP Performance.	K1,K2	18
III	Mobile Telecommunication System-Global System for Mobile Communication (GSM) – General Packet Radio Service (GPRS) – Universal Mobile Tele communication System (UMTS).	K3	18
IV	Mobile Ad-Hoc Networks-Ad-Hoc Basic Concepts – Characteristics – Applications – Design Issues – Routing – Essential of Traditional Routing Protocols –Popular Routing Protocols – Vehicular Ad Hoc networks (VANET) – MANET Vs VANET –Security.	K4	18
V	Mobile Platforms and Applications-Mobile Device Operating Systems – Special Constrains & Requirements – Commercial Mobile Operating Systems – Software Development Kit: iOS, Android, BlackBerry, Windows Phone – M-Commerce – Structure– Pros & Cons – Mobile Payment System – Security Issues.	K5	18
	Learning Resources		
Text Books	Prasant Kumar Pattnaik, Rajib Mall, “ <i>Fundamentals of Mobile Computing</i> ”, PHI Learning Pvt. Ltd, New Delhi 2012.		
Reference Books	1. Jochen H. Schller, “<i>Mobile Communications</i>”, Pearson Education, New Delhi, 2007, 2nd Edition. 2. Dharma Prakash Agarwal, Qing and An Zeng, “<i>Introduction to Wireless and Mobile systems</i>”, Thomson Asia Pvt Ltd. 2005. 3. Uwe Hansmann, LotharMerk, Martin S. Nicklons and Thomas Stober, “<i>Principles of Mobile Computing</i>”, Springer 2003.		
Website / Link	NPTEL & MOOC courses titled Mobile Computing 1. https://nptel.ac.in/courses/106/106/106106147/		

	2. https://www.smartzworld.com/notes/mobile-computing-pdf-notes-mc-notes-pdf/
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Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	M	S	M	L
CO2	S	M	M	L
CO3	S	M	M	L
CO4	M	S	M	L
CO5	S	M	L	L

S- Strong , M- Medium , L – Low

Subject Title	SEMESTER – VI PAPER – II WIRELESS NETWORK	Semester	VI
Subject Code	21UCSE05	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4

COURSE OBJECTIVE:

1. To understand about Wireless Networks,
2. To familiar with Protocol Stack and Standards.
3. To be exposed to 3G/4G Services.
4. Gain knowledge about Its Protocols and Applications.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts of WLAN technologies.	K1
CO2	Understanding mobile IP.	K2
CO3	Apply TCP enhancements.	K3
CO4	Evaluate UTMS.	K4
CO5	Implement 4G.	K5

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

Subject Title	SEMESTER – VI PAPER – II WIRELESS NETWORK	Semester	VI	
Subject Code	21UCSE05	Specialization	NA	
Type	Elective : Theory	L:T:P:C	86:6:0:4	
Unit	Contents		Levels	Sessions
I	Introduction-WLAN Technologies: Infrared, UHF Narrowband, Spread Spectrum -IEEE802.11: System Architecture, Protocol Architecture, Physical Layer, MAC Layer, 802.11b, 802.11a – Hiper LAN: WATM, BRAN, HiperLAN2 – Bluetooth: Architecture, Radio Layer, Baseband Layer, Link Manager Protocol, Security – IEEE802.16-WIMAX: Physical Layer, MAC, Spectrum Allocation For WIMAX.		K1	14
II	Introduction – Mobile IP: IP Packet Delivery, Agent Discovery, Tunneling And Encapsulation, IPV6-Network Layer In The Internet- Mobile IP Session Initiation Protocol – Mobile Ad-Hoc Network: Routing, Destination Sequence Distance Vector, Dynamic Source Routing.		K2	18
III	TCP Enhancements For Wireless Protocols – Traditional TCP: Congestion Control, Fast Retransmit/Fast Recovery, Implications Of Mobility – Classical TCP Improvements: Indirect TCP, Snooping TCP, Mobile TCP, Time Out Freezing, Selective Retransmission, Transaction Oriented TCP – TCP Over 3G Wireless Networks.		K3	18
IV	Overview Of UTMS Terrestrial Radio Access Network-UMTS Core Network Architecture: 3G-MSC, 3G-SGSN, 3G-GGSN, SMS-GMSC/SMS-IW MSC, Firewall, DNS/DHCP-High Speed Downlink Packet Access (HSDPA) - LTE Network Architecture And Protocol.		K4	18
V	4G Introduction – 4G Vision – 4G Features And Challenges – Applications Of 4G – 4G Technologies: Multicarrier Modulation, Smart Antenna Techniques, OFDM-MIMO Systems, Adaptive Modulation And Coding With Time Slot Scheduler, Cognitive Radio.		K5	18
	Learning Resources			
Text Books	1. Jochen Schiller, ”Mobile Communications”, Second Edition, Pearson Education 2012.(Unit I,II,III) 2. Vijay Garg , “Wireless Communications And Networking”, First Edition, Elsevier 2007.(Unit IV,V)			
Reference Books	1. Erik Dahlman, Stefan Parkvall, Johan Skold And Per Beming, “3G Evolution HSPA And LTE For Mobile Broadband”, Second Edition, Academic Press, 2008. 2. Anurag Kumar, D.Manjunath, Joy Kuri, “Wireless Networking”, First Edition, Elsevier 2011. 3. Simon Haykin , Michael Moher, David Koilpillai, “Modern Wireless Communications”, First Edition, Pearson Education 2013			

Website / Link	www.tutorialspoint.com/wireless-network www.iqytechnicalcollege.com www.rejinPaul.com
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Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	M	S	S	L
CO2	S	S	M	L
CO3	S	M	L	L
CO4	M	S	L	L
CO5	S	M	M	L

S- Strong , M- Medium , L – Low

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

Subject Title	SEMESTER – VI PAPER – III COMPUTER GRAPHICS	Semester	VI
Subject Code	21UCSE06	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4

COURSE OBJECTIVE:

1. To understand about Computer Graphics,
2. To familiar with scan and I/O devices.
3. To be exposed to 2D Transformations and clipping.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts of Graphics system.	K1
CO2	Understanding scans system and I/O Devices.	K2
CO3	Apply 2D Transformations.	K3
CO4	Evaluate 3D Transformations.	K4
CO5	Implement visual surface techniques.	K5

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

Subject Title	SEMESTER – VI PAPER – III COMPUTER GRAPHICS	Semester	VI	
Subject Code	21UCSE06	Specialization	NA	
Type	Elective : Theory	L:T:P:C	86:6:0:4	
Unit	Contents		Levels	Sessions
I	Overview of graphics Systems: Video Display Device – Refresh Cathode-Ray tubes Raster – Scan Displays Random – Scan Displays – Color CRT Monitors –Direct view Storage tubes Flat – Panel Displays Three – Dimensional Viewing Devices. Stereoscopic and Virtual – Reality Systems.		K1	14
II	Raster – Scan Systems Video Controller – Random – Scan Systems Video Controller – Random-Scan Systems – Input device – Keyboard Mouse – Trackball and Space ball . Joysticks – Data Glove – Digitizers- Image Scanners – Touch Panels – Light pens. Voice Systems – Hard-Copy Devices – Line Drawing Algorithms DDA Algorithms – Circle generating Algorithm Properties of Ellipses		K2	18
III	Two Dimensional Geometric Transformation: Basic Transformations - Translation – Rotation – Scaling – Matrix Representations and Homogeneous Coordinates – Other Transformations Reflections Two Dimensional Viewing : Windows to view point coordinate Transformations – Clipping Operations – Point Clipping – Line Clipping – Curve Clipping – Text Clipping – Exterior Clipping.		K3	18
IV	Three Dimensional Concepts: Three Dimensional Display method – Parallel projection – Depth cueing - visible line and surface – Three Dimensional Geometric and modeling Transformations: Translation – Rotation - Scaling – Composite Transformations. Three Dimensional Viewing: Viewing pipeline – Viewing Coordinates – Projections – Parallel Projections – Perspective Projections.		K4	18
V	Visible Surface Detection Methods : Classification Visible Surface Detection Algorithms – Back Face Detection – Depth – Buffer Method – A-Buffer Method – Scan line method – Depth sorting method – BSP tree method – Area Subdivision Method.		K5	18
	Learning Resources			
Text Books	Donald Hearn & M.Pauline Baker , “Computer Graphics”,2 nd Edition, 1996			
Reference Books	John f. Hughes, Andries Van Dam, Morgan Mcguire, David F. Sklar, James D. Foley, Steven K. Feiner, Kurt Akeley, “Computer Graphics Principles and Practice” 3rdEdition, Pearson Education,2014.			
Website / Link	www.javatpoint.com/computer-graphics www.taylorfrancis.com			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	M	S	M	L
CO2	S	M	M	M
CO3	S	M	L	L
CO4	M	S	L	M
CO5	S	S	M	L

S- Strong , M- Medium , L – Low

ELECTIVE III

Subject Title	SEMESTER – VI PAPER – I SOFTWARE TESTING	Semester	VI
Subject Code	21UCSE07	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4

COURSE OBJECTIVE:

1. To study various Software techniques
2. To study fundamental concepts in software testing

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts of SDLC	K1
CO2	Understanding Block box testing	K2
CO3	Apply system testing	K3
CO4	Evaluate performance testing	K4
CO5	Implement test planning.	K5

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

Subject Title	SEMESTER – VI PAPER – I SOFTWARE TESTING	Semester	VI
Subject Code	21UCSE07	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4
Unit	Contents	Levels	Sessions
I	SOFTWARE DEVELOPMENT LIFE CYCLE MODELS: Phases of Software project –Quality, Quality Assurance, Quality control – Testing, Verification and Validation – Process Model to represent Different Phases - Life Cycle models. White-Box Testing: Static Testing – Structural Testing – Challenges in White-Box Testing	K1	14
II	BLACK-BOX TESTING: What is Black-Box Testing? - Why Black-Box Testing? – When to do Black-Box Testing? – How to do Black-Box Testing? Integration Testing: Integration Testing as Type of Testing – Integration Testing as a Phase of Testing – Scenario Testing - Defect Bash	K2	18
III	SYSTEM AND ACCEPTANCE TESTING: System Testing Overview – Why is System testing done? – Functional versus Non-functional Testing - Functional System Testing - Non-Functional Testing-Acceptance Testing - Summary of Testing Phases	K3	18
IV	PERFORMANCE TESTING: Factors Governing Performance Testing – Methodology for Performance Testing - Tools for Performance Testing - Process for Performance Testing - Challenges. Regression Testing: What is Regression Testing? – Types of Regression Testing – When to do Regression Testing? – How to do Regression Testing? – Best Practices in Regression Testing	K4	18
V	TEST PLANNING, MANAGEMENT, EXECUTION AND REPORTING:Test Planning – Test Management-Test Process – Test Reporting. Quick Test Professional (QTP): Overview of QTP – Testing an Application using QTP – Creating Check Points – Testing Database Application – Testing a Web Application	K5	18
Learning Resources			
Text Books	Srinivasan Desikan, Gopalaswamy Ramesh Software Testing Principles and Practices, Pearson Education 2012		
Reference Books	1. Dr.K.V.K.K.Prasad ,Software Testing Tools ,Dreamtech Press2012 2. RenuRajani, Testing Practitioner ,Handbook Packt Publishing Limited2017 3. NareshChauhan ,Software Testing, Oxford University Press2 nd edition, 2016		
Website / Link	https://s3_ap_southeast-1.amazonaws.com/tv-prod/documents%2F7619-2.software+system+principles+and+practices_srinivasan+desikan_gopalaswamy+ramesh.pdf		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	L	L
CO2	S	M	L	M
CO3	S	M	L	L
CO4	L	S	M	M
CO5	S	M	M	L

S- Strong , M- Medium , L – Low

Subject Title	SEMESTER – VI PAPER – II NETWORK SECURITY	Semester	VI
Subject Code	21UCSE08	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4

COURSE OBJECTIVE:

1. To Understand OSI security architecture.
2. To acquire fundamental knowledge of finite fields and number theory.
3. To Understand various block cipher and stream cipher models.
4. Study the principles of symmetric & public key crypto systems.
5. To learn the system security practices.

CO Number	CO Statement	Knowledge Level
CO1	Remember the OSI Security Architecture.	K1
CO2	Understanding Number theory and finite fields.	K2
CO3	Apply Block Ciphers and Data Encryption Std.	K3
CO4	Evaluate Public Key Cryptography and RSA.	K4
CO5	Implement Hash functions.	K5

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

Subject Title	SEMESTER – VI PAPER – II NETWORK SECURITY	Semester	VI	
Subject Code	21UCSE08	Specialization	NA	
Type	Elective : Theory	L:T:P:C	86:6:0:4	
Unit	Contents		Levels	Sessions
I	OSI Security Architecture – Security attacks, services and mechanisms – Network security Model – Classical encryption techniques: Symmetric cipher model, Substitution techniques – Transposition techniques – Rotor machines – Steganography		K1	14
II	Number theory and finite fields: The Euclidean algorithm – Modular arithmetic - Groups, Rings and Fields – Finite fields of the Form GF (p) – Polynomial arithmetic – prime numbers – Fermat’s and eulers theorems		K2	18
III	Block Ciphers and Data Encryption Standard: Traditional block cipher structure – Data Encryption – Strengths of DES – Block Cipher Design Principles – Advanced Encryption Standard – AES structure – AES transformation functions – AES Key expansion – implementation		K3	18
IV	Public Key Cryptography and RSA – Principles of Public-key Crypto systems – RSA algorithm - Diffie – Hellman Key exchange - Elgamal Cryptographic System		K4	18
V	Hash functions – Applications – two simple hash functions – Hash functions based on Cipher block chaining - Secure Hash Algorithm (SHA)		K5	18
	Learning Resources			
Text Books	William Stallings, “ <i>Cryptography and Network Security: Principles and Practice</i> ”, Pearson Education 2013,6 th Edition.			
Reference Books	1. Behrouz A. F-erouzan, “ <i>Cryptography & Network Security</i> ”, Tata McGraw Hill 2007. 2. Man Young Rhee, “ <i>Internet Security: Cryptographic Principles, Algorithms and Protocols</i> ”, Wiley Publications 2003. 3. Charles Pfleeger, “ <i>Security in Computing</i> ”, Prentice Hall of India 2006, 4 th Edition. 4. Ulysess Black, “ <i>Internet Security Protocols</i> ”, Pearson Education Asia 2000. 5. Charlie Kaufman and Radia Perlman, Mike Speciner, “ <i>Network Security, Private Communication in Public World</i> ”, PHI 2002, 2 nd Edition.			
Website /Link	1.NPTEL & MOOC courses titled Network Security 2. https://nptel.ac.in/courses/106/105/106105031/			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	M	L
CO2	S	M	L	L
CO3	S	M	L	L
CO4	M	L	S	M
CO5	S	M	M	L

S- Strong , M- Medium , L – Low

Subject Title	SEMESTER – VI PAPER – III INTERNET OF THINGS	Semester	VI
Subject Code	21UCSE09	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4

COURSE OBJECTIVE:

1. Use of Devices, Gateways and Data Management in IoT.
2. Design IoT applications in different domain and be able to analyze their performance.
3. Implement basic IoT applications on embedded platform.

CO Number	CO Statement	Knowledge Level
CO1	Remember IoT and Web technology.	K1
CO2	Understanding M2M to IoT.	K2
CO3	Apply IoT Architecture.	K3
CO4	Evaluate IoT Applications.	K4
CO5	Implement IoT Privacy, Security and Governance.	K5

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

Subject Title	SEMESTER – VI PAPER – III INTERNET OF THINGS	Semester	VI
Subject Code	21UCSE09	Specialization	NA
Type	Elective : Theory	L:T:P:C	86:6:0:4
Unit	Contents	Levels	Sessions
I	IoT & Web Technology, The Internet of Things Today, Time for Convergence, Towards the IoT Universe, Internet of Things Vision, IoT Strategic Research and Innovation Directions, IoT Applications, Future Internet Technologies, Infrastructure, Networks and Communication, Processes, Data Management, Security, Privacy & Trust, Device Level Energy Issues, IoT Related Standardization, Recommendations on Research Topics.	K1	14
II	M2M to IoT – A Basic Perspective– Introduction, Some Definitions, M2M Value Chains, IoT Value Chains, An emerging industrial structure for IoT, The international driven global value chain and global information monopolies. M2M to IoT-An Architectural Overview– Building an architecture, Main design principles and needed capabilities, An IoT architecture outline, standards considerations.	K2	18
III	IoT Architecture -State of the Art – Introduction, State of the art, Architecture. Reference Model- Introduction, Reference Model and architecture, IoT reference Model, IoT Reference Architecture- Introduction, Functional View, Information View, Deployment and Operational View, Other Relevant architectural views	K3	18
IV	IoT Architecture Introduction, IoT applications for industry: Future Factory Concepts, Brownfield IoT, Smart Objects, Smart Applications, Four Aspects in your Business to Master IoT, Value Creation from Big Data and Serialization, IoT for Retailing Industry, IoT For Oil and Gas Industry, Opinions on IoT Application and Value for Industry, Home Management, eHealth.	K4	18
V	Internet of Things Privacy, Security and Governance Introduction, Overview of Governance, Privacy and Security Issues, Contribution from FP7 Projects, Security, Privacy and Trust in IoT-Data-Platforms for Smart Cities, First Steps Towards a Secure Platform, Smartie Approach. Data Aggregation for the IoT in Smart Cities, Security	K5	18
	Learning Resources		
Text Books	Vijay Madiseti and Arshdeep Bahga, “ <i>Internet of Things: (A Hands-on Approach)</i> ”, Universities Press (INDIA) Private Limited 2014, 1 st Edition.		
Reference Books	1. Michael Miller, “ <i>The Internet of Things: How Smart TVs, Smart Cars, Smart Homes, and Smart Cities Are Changing the World</i> ”, Pearson Education 2015. 2. Francis da Costa, “ <i>Rethinking the Internet of Things: A Scalable Approach to</i>		

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

	<i>Connecting Everything</i> ", Apress Publications 2013, 1 st Edition. 3. Waltenegus Dargie, Christian Poellabauer, " <i>Fundamentals of Wireless Sensor Networks: Theory and Practice</i> ", Wiley 2014. 4. CunoPfister, " <i>Getting Started with the Internet of Things</i> ", O'Reilly Media 2011.
Website /Link	1. https://github.com/connectIOT/iottoolkit 2. https://www.arduino.cc/ 3. http://www.zettajs.org/

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	M	L
CO2	S	M	M	L
CO3	S	M	M	M
CO4	M	L	S	M
CO5	S	L	M	L

S- Strong , M- Medium , L – Low

NON MAJOR ELECTIVE COURSE (NMEC) - I

Subject Title	SEMESTER – III PAPER – I BASICS OF COMPUTERS	Semester	III
Subject Code	21UCSN01	Specialization	NA
Type	NMEC: Theory	L:T:P:C	26:2:0:2

COURSE OBJECTIVE:

1. To understand the basics of computers.
2. To prepare the students for analyze data processing.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of computers.	K1
CO2	Understand number system.	K2
CO3	Demonstrate the functions of computer system.	K3
CO4	Study the input and output system.	K4
CO5	Analyze data processing.	K5

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

Subject Title	SEMESTER – III PAPER – I BASICS OF COMPUTERS	Semester	III	
Subject Code	21UCSN01	Specialization	NA	
Type	NMEC: Theory	L:T:P:C	26:2:0:2	
Unit	Contents		Levels	Sessions
I	Introduction to Computer: Introduction – Types of computers – Characteristics of Computers. Generations of Computers: First Generation – Second Generation – Third Generation – Fourth Generation – Fifth Generation. Classification of Digital Computers: Introduction – Microcomputers – Personal Computer – Portable Computers – Mini Computers – Super Computers – Main Frames.		K1	5
II	Number System: Introduction – Decimal Number System – Binary Number System – Binary-Decimal Conversion – Decimal Binary Conversion – Binary Addition – Binary Subtraction – Complements – 9's Complement – 10's Complement – 1's Complements – 2's Complements – BCD - Bits, Bytes, Words – Octal – Hexadecimal Number System.		K2	5
III	Anatomy of Digital Computer : Functions and Components of Computer – Central Processing Unit – Control Unit – Arithmetic – Logic Unit – Memory – Registers – Addresses. Memory Units: RAM, ROM, PROM, EPROM, EEPROM, and Flash Memory		K3	5
IV	Input Devices: Introduction – Keyboard – Mouse – Types of Mice – Connections – Mouse pad – Trackball – joystick – Digitizing Tablet – Scanners – Digital Camera – MICR – OCR – OMR – Bar Code Reader – Speech Input Device- Touch Screen – Touch Pad – Light Pen. Output Devices: Introduction – Monitor – Classification of Monitors – Monochrome – Gray Scale – Color – Digital Monitor – Analog Monitor – Characteristics of monitor – Printers.		K4	5
V	Computer Software: Introduction – Operating System – Utilities – Compiler and Interpreters – Word Processor – Spreadsheets – Presentation Graphics – DBMS – Programming Languages: Machine Language – Assembly Language – High level language – Types of High Level Language. Data Processing: Data VS Information – File Processing – Sequential File Processing – Direct Access File Processing.		K5	6
	Learning Resources			
Text Books	Alexis Leon and Mathews Leon, “Fundamentals of Computer Science and Communication Engineering”, Leon Techworld, 1998.			
Reference Books	1. B. Ram and Sanjay Kumar, “Computer Fundamentals”, 5th Edition, New Age International Publishers, 2014. 2. Pradeep K Sinha, Priti Sinha, “Computer Fundamentals”, BPB Publications, 2004. 3. Anita Goel, “Computer Fundamentals”, 1st Edition, Pearson Education India, 2010.			

Website/ Link	basics_of_computer">https://www.gopeaople.edu/blog/the_basics_of_computer_science_how_to_get_started/ www.tutorialspoint.com>basics_of_computer
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Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	M	---
CO2	M	M	-	S
CO3	S	M	L	M
CO4	M	S	M	-
CO5	S	M	-	L

S- Strong , M- Medium , L – Low

NON MAJOR ELECTIVE COURSE (NMEC) - I

Subject Title	SEMESTER – III PAPER – II COMPUTER APPLICATIONS FOR AUTOMATION	Semester	III
Subject Code	21UCSN02	Specialization	NA
Type	NMEC: Theory	L:T:P:C	26:2:0:2

COURSE OBJECTIVE:

1. To acquire knowledge on editor, spread sheet, slide preparation.
2. To improve creative thinking in presentation software.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of computers.	K1
CO2	Understand MS word.	K2
CO3	Demonstrate the functions of MS excel.	K3
CO4	Study the basics of MS power point.	K4
CO5	Analyze data processing with MS Access.	K5

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

Subject Title	SEMESTER – III PAPER – II COMPUTER APPLICATIONS FOR AUTOMATION	Semester	III	
Subject Code	21UCSN02	Specialization	NA	
Type	NMEC: Theory	L:T:P:C	26:2:0:2	
Unit	Contents		Levels	Sessions
I	Introduction to Computers: Introduction- Importance- History- Anatomy		K1	5
II	MS-Word: Basics –Do's and Don'ts – Menus – Commands – Tool Bars – Icons – Word Formatting Tool Bar		K2	5
III	MS-Excel: Basics – Do's and Don'ts – Menus – Commands – Tool Bars – Icons		K3	5
IV	MS-PowerPoint: Basics – Menus – Tool Bars – Navigation		K4	5
V	MS-Access: Introduction – Parts of an Window: - Creating a New Data Base – Table Wizard – Renaming – Saving the Database – Relationships – Query – Form – Reports – Exiting MS-Access		K5	6
	Learning Resources			
Text Books	Sanjay Saxena, “MS-Office 2000 for everyone”, Vikas Publishing House Pvt. Ltd, Reprint 2006			
Reference Books	1. Nellai Kannan, “MS-Office”, Nels Publications, 3 rd Edition, 2004. 2. John Walkenbach, Herb Tyson, Michael R.Groh, Faithe Wempen and Lisa A.Bucki , “ Microsoft Office 2010 Bible “, Wiley India Pvt. Ltd , Reprint 2010			
Website/ Link	1. https://ptgmedia.pearsoncmg.com/images/9780735623026/samplepages/9780735623026.pdf 2. https://www.dit.ie/media/ittraining/msoffice/MOAC_Excel_2016_Core. pdf 3. https://ptgmedia.pearsoncmg.com/images/9780735697799/samplepages/9780735697799.pdf 2010			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	M	---
CO2	S	M	-	-
CO3	S	S	L	M
CO4	M	S	M	-
CO5	S	M	M-	L

S- Strong , M- Medium , L – Low

NON MAJOR ELECTIVE COURSE (NMEC) – II

Subject Title	SEMESTER – IV PAPER – I BASICS OF INTERNET	Semester	IV
Subject Code	21UCSN03	Specialization	NA
Type	NMEC: Theory	L:T:P:C	26:2:0:2

COURSE OBJECTIVE:

1. To improve the skills of surfing internet.
2. To prepare the students for developing webpage using HTML.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of Internet.	K1
CO2	Understand internet technologies.	K2
CO3	Demonstrate tags in HTML.	K3
CO4	Study the basics of create list and tables.	K4
CO5	Analyze frames and forms.	K5

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

Subject Title	SEMESTER – IV PAPER – I BASICS OF INTERNET	Semester	IV
Subject Code	21UCSN03	Specialization	NA
Type	NMEC: Theory	L:T:P:C	26:2:0:2
Unit	Contents	Levels	Sessions
I	Introduction To The Internet: Computer in Business – Networking – Internet -E-mail – Resource Sharing – Gopher – World Wide Web – Telnet – Bulletin Board Service – Wide Area Information Service.	K1	5
II	Internet Technologies: Modem - Internet addressing – Physical connections – Telephone Lines – Internet browsers – Internet Explorer – Netscape Navigator.	K2	5
III	Introduction to HTML: Designing a home page – HTML documents – Anchor tag – Hyper Links. Traditional text and formatting	K3	5
IV	Types of lists: Ordered, Unordered – Nesting Lists – Other tags: Marquee, HR, BR- Using Images – Creating Hyperlinks ,Tables: Creating basic Table, Table elements, Caption – Table and cell alignment – Rowspan, Colspan – Cell padding	K4	5
V	Frames: Frameset – Targeted Links – No frame – Forms : Input, Text area, Select, Option.	K5	6
Learning Resources			
Text Books	1. C Xavier, “World Wide Web with HTML”, Tata McGraw Hill Education, 2000. 2. H.M.Deital, P.J. Deital, “Internet and World Wide Web – How to Program”, 4 th Edition “PHI Learning		
Reference Books	Laura Lemay, “HTML Complete Reference, Teach Yourself Web Publishing with HTML”.		
Website/ Link	https://www.codecademy.com/learn/learn-html/		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	M	---
CO2	S	M	-	-
CO3	S	S	M	L
CO4	M	S	L	-
CO5	S	L	M-	L

S- Strong , M- Medium, L – Low

NON MAJOR ELECTIVE COURSE (NMEC) – II

Subject Title	SEMESTER – IV PAPER – II IMAGE EDITING TOOL	Semester	IV
Subject Code	21UCSN04	Specialization	NA
Type	NMEC: Theory	L:T:P:C	26:2:0:2

COURSE OBJECTIVE:

1. To impart Practical Training in PHOTOSHOP image editing Tool.
2. Familiarize the different text and filter effects.
3. Build programs using stamp tools.
4. Provide knowledge on working with several layouts.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of Photoshop.	K1
CO2	Understand the working with images.	K2
CO3	Demonstrate the layering in Photoshop.	k3
CO4	Implement the layer style.	K4
CO5	Analyze the action concept.	K5

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

Subject Title	SEMESTER – IV PAPER – II IMAGE EDITING TOOL	Semester	IV	
Subject Code	21UCSN04	Specialization	NA	
Type	NMEC: Theory	L:T:P:C	26:2:0:2	
Unit	Contents		Levels	Sessions
I	Getting Started with Photoshop CS5: Launching Photoshop CS5 - Exploring the Interface - Using Screen Modes - Opening an Existing Image - Opening an Image Using Adobe Bridge - Exploring Commonly Used Tools in the Tools Panel - Creating a New Document - Saving a Document - Reverting a Document - Selecting a Workspace - Creating a New Workspace - Deleting a Workspace - Working with Panels in Photoshop CS5 - Keyboard Shortcuts and Menu Settings - Customizing Preferences.		K1	5
II	Working with Images: Differences between Bitmap and Vector Images - Understanding Image Resolution Editing Images - Different Color Modes in Photoshop CS5 - Making Color Adjustments - File Formats in Photoshop CS5 -Creating a PDF File in Photoshop CS5 - Importing a PDF File into Photoshop CS5 - Making a Selection with Selections Tools - Modifying a Selection-Transforming a Selection - Transforming Pixels.		K2	5
III	Mastering Layers in Photoshop CS5:Exploring LAYERS Panel - Working with Layers -Organizing Layers Working with Opacity and Blend Modes - Working with Adjustment Layers - Masking in Photoshop CS5 - Setting the Current Foreground and Background Colors - Filling a Selection with the Current Foreground Color - Using the Content-Aware Feature - Exploring Drawing Tools - Exploring Painting Tools - Exploring Retouching Tools.		K3	5
IV	Working with Layer Styles and Filter Effects: Understanding Layer Styles - Working with Smart Objects - Understanding Filters.		K4	5
V	Animation, 3D, and Printing in Photoshop CS5:Working with Actions - Working with Automate Commands - Exploring 3D in Photoshop - Working with Animation in Photoshop CS5 - Printing in Photoshop CS5.		K5	6
	Learning Resources			
Text Books	C Kogent Learning Solutions Inc,“Photoshop CS5 in Simple Steps”, Dreamtech Press, New Delhi, 2012.			
Reference Books	1. Brie Gyncild, “Ado be Photoshop CS6 Classroom in a Book”, Adobe Press/Peachpit, 2012 2. Lisa Danae Dayley, Brad Dayley, “Adobe Photoshop Cs6 Bible”, Wiley India Pvt Ltd. 3. Edward Bailey, “Photoshop: 7 Ways to Use Adobe Photoshop Like a Pro”, Create space Independent Publishing Platform			
Website/ Link	1. www.online_image_editor.com 2. www.cs5_on_demand_sampler.pdf			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	L	---
CO2	S	M	-	L
CO3	S	M	L	L
CO4	M	S	L	L
CO5	S	L	-	M

S- Strong , M- Medium , L – Low

ALLIED OPTION I

Subject Title	SEMESTER I/III PAPER – I FUNDAMENTALS OF COMPUTERS	Semester	I/III
Subject Code	21UCSA01	Specialization	NA
Type	Allied: Theory	L:T:P:C	86:6:0:4

COURSE OBJECTIVE:

1. To Understand the basics of computers.
2. To prepare the students for the analyze of data processing.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of computers.	K1
CO2	Understand the number system.	K2
CO3	Demonstrate the functions of computer system.	K3
CO4	Study the input and output system .	K4
CO5	Analyze of data processing.	K5

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

Subject Title	SEMESTER I/III PAPER – I FUNDAMENTALS OF COMPUTERS	Semester	I/III	
Subject Code	21UCSA01	Specialization	NA	
Type	Allied: Theory	L:T:P:C	86:6:0:4	
Unit	Contents		Levels	Sessions
I	Introduction to Computer: Introduction – Types of computers – Characteristics of Computers. Generations of Computers: First Generation – Second Generation – Third Generation – Fourth Generation – Fifth Generation. Classification of Digital Computers: Introduction – Microcomputers – Personal Computer – Portable Computers – Mini Computers – Super Computers – Main Frames.		K1	17
II	Number System: Introduction – Decimal Number System – Binary Number System – Binary-Decimal Conversion – Decimal Binary Conversion – Binary Addition – Binary Subtraction – Complements – 9's Complement – 10's Complement – 1's Complements – 2's Complements – BCD - Bits, Bytes, Words – Octal – Hexadecimal Number System.		K2	17
III	Anatomy of Digital Computer : Functions and Components of Computer – Central Processing Unit – Control Unit – Arithmetic – Logic Unit – Memory – Registers – Addresses. Memory Units: RAM, ROM, PROM, EPROM, EEPROM, and Flash Memory.		K3	17
IV	Input Devices: Introduction – Keyboard – Mouse – Types of Mice – Connections – Mouse pad – Trackball – joystick – Digitizing Tablet – Scanners – Digital Camera – MICR – OCR – OMR – Bar Code Reader – Speech Input Device- Touch Screen – Touch Pad – Light Pen. Output Devices: Introduction – Monitor – Classification of Monitors – Monochrome – Gray Scale – Color – Digital Monitor – Analog Monitor – Characteristics of monitor – Printers.		K4	17
V	Computer Software:Introduction – Operating System – Utilities – Compiler and Interpreters – Word Processor – Spreadsheets – Presentation Graphics – DBMS – Programming Languages: Machine Language – Assembly Language – High level language – Types of High Level Language. Data Processing: Data VS Information – File Processing – Sequential File Processing – Direct Access file Processing.		K5	18
Learning Resources				
Text Books	Alexis Leon and Mathews Leon, “Fundamentals of Computer Science and Communication Engineering”, Leon Techworld, 1998.			
Reference Books	1. B Ram and Sanjay Kumar, “Computer Fundamentals”, 5 th Edition, New Age International Publishers, 2014. 2. Pradeep K Sinha, Priti Sinha, “Computer Fundamentals”, BPB Publications, 2004. Anita Goel, “Computer Fundamentals”, 1 st Edition, Pearson Education India, 2010.			
Website/ Link	https://www.gopeople.edu/blog/the_basics_of_computer_science_how_to_get_started/ basics_of_computer">www.tutorialspoint.com>basics_of_computer			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	M	---
CO2	M	M	-	S
CO3	S	M	L	M
CO4	M	S	M	-
CO5	S	M	-	L

S- Strong , M- Medium , L – Low

Subject Title	COMPUTER APPLICATIONS IN OFFICE	Semester	II/IV
Subject Code	21UCSA02	Specialization	NA
Type	Allied: Theory	L:T:P:C	56:4:0:4

COURSE OBJECTIVE:

1. To improve the quality of students in office automation process.
2. To prepare the students for various ability to prepare reports and presentations.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of MS word.	K1
CO2	Understand MS word.	K2
CO3	Demonstrate the functions of MS excel.	K3
CO4	Study the basics of MS excel workbooks.	K4
CO5	Analyze of data processing with MS power point.	K5

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

Subject Title	COMPUTER APPLICATIONS IN OFFICE	Semester	II/IV	
Subject Code	21UCSA02	Specialization	NA	
Type	Allied: Theory	L:T:P:C	56:4:0:4	
Unit	Contents		Levels	Sessions
I	MS Word Exploring Word 2007: Working in the Word Environment – Opening, Moving Around in, and closing Document – Creating and Saving A Document – Previewing and Printing Document – Editing and Proofreading Documents: Making Changes to document – Inserting Saved Text – Finding the Most Appropriate Word – Reorganizing a Document Outline – Finding and Replacing Text – Correcting spelling and Grammatical errors – Finalizing Document		K1	12
II	MS Word Changing the Look of Text: Quickly Formatting Text and Paragraphs – Manually changing the look of characters – Manually changing the look of paragraphs – Creating and modifying Lists-Presenting Information in Columns and Tables : Presenting Information in Columns – Creating Tabular List – Presenting Information in a Table – Formatting Table Information – Performing Calculations in a Table- Using a Table to control Page Layout.		K2	12
III	MS Excel Setting Up a Workbook : Creating Workbooks – Modifying Workbooks - Modifying Worksheets – Working with Data and Data Tables : Entering and Revising Data – Moving Data within a Workbook- Finding and Replacing Data – Correcting and Expanding Upon Worksheet Data – Defining a Table – Performing Calculations on Data : Naming Groups of Data – Creating Formulas to Calculate Values – Summarizing Data that meets Specific Conditions –Finding and Correcting Errors in Calculations- Changing Document Appearance.		K3	12
IV	MS-Access: Introduction – Parts of an Window: - Creating a New Data Base – Table Wizard – Renaming – Saving the Database – Relationships – Query – Form – Reports – Exiting MS-Access		K4	10
V	MS PowerPoint Starting a New Presentation – Working with Slide Text : Entering Text – Editing Text – Adding and Manipulating Text Boxes –Correcting and Sizing text – Checking Spelling – Finding and replacing text and fonts – Changing the size, Alignment, Spacing – Adjusting the Slide Layout, Order and Look : Changing the Layout of a slide – Rearranging Slides in a Presentation – Applying a theme -Switching to a Different Color Scheme – Adding Shading and texture to the background of a slide – Delivering a Presentation Electronically.		K5	10
	Learning Resources			
Text Books	1. Step by Step 2007 Microsoft Office System -Joyce Cox and Team ,PHI learning Private ltd, New delhi 2009 2. Sanjay Saxena, “MS-Office 2000 for everyone”, Vikas Publishing House Pvt. Ltd, Reprint 2006			

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

Reference Books	1. Nellai Kannan, “MS-Office”, Nels Publications, 3 rd Edition, 2004. 2. John Walkenbach, Herb Tyson, Michael R.Groh, Faithe Wempen and Lisa A.Bucki , “ Microsoft Office 2010 Bible “, Wiley India Pvt. Ltd , Reprint 2010
Website/ Link	1. https://ptgmedia.pearsoncmg.com/images/9780735623026/samplepages/9780735623026.pdf 2. https://www.dit.ie/media/ittraining/msoffice/MOAC_Excel_2016_Core.pdf 3. https://ptgmedia.pearsoncmg.com/images/9780735697799/samplepages/9780735697799.pdf 2010

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	M	M
CO2	S	M	L	M
CO3	S	S	L	M
CO4	M	S	L	M
CO5	S	M	M-	L

S- Strong , M- Medium , L – Low

Subject Title	OFFICE AUTOMATION LAB	Semester	II/IV
Subject Code	21UCSAP01	Specialization	NA
Type	Allied: Practical	L:T:P:C	30:0:2:2

COURSE OBJECTIVE:

1. To enable the students to design and develop the Office applications.
2. To qualify the students working in editor, spread sheet and slide preparation.
3. To improve creative thinking in presentation software.

LIST OF PROGRAMS

I. MS-WORD

1. Text Manipulation: Write a paragraph about your institution and Change the font size and type, Spell check, Aligning and justification of Text.
2. Bio data: Prepare a Bio-data.
3. Find and Replace: Write a paragraph about yourself and do the following. Find and Replace - Use Numbering Bullets, Footer and Headers.
4. Tables and manipulation: Creation, Insertion, Deletion (Columns and Rows). Create a mark sheet.
5. Mail Merge: Prepare an invitation to invite your friends to your birthday party. Prepare at least five letters.

II. MS-EXCEL

1. Data sorting-Ascending and Descending (both numbers and alphabets).
2. Mark list preparation for a student.
3. Individual Pay Bill preparation.
4. Invoice Report preparation.
5. Drawing Graphs. Take your own table.

III. MS-POWERPOINT

1. Create a slide show presentation for a seminar.
2. Preparation of Organization Charts.
3. Create a slide show presentation to display percentage of marks in each semester for all students.
4. Use bar chart (X-axis: Semester, Y-axis: % marks).
5. Use different presentation template different transition effect for each slide.

COURSE OUTCOME:

On successful completion of the course, the students will

1. Understand the features in MS Word.
2. Select and apply worksheet and functions in MS EXCEL.
3. Combine multiple features in MS POWER POINT to prepare presentations.

ALLIED OPTION II

Subject Title	DATABASE SYSTEMS	Semester	I/III
Subject Code	21UCSA03	Specialization	NA
Type	Allied: Theory	L:T:P:C	86:6:0:4

COURSE OBJECTIVE:

1. To improve the understanding of database theory and practices.
2. To prepare the students implement database manipulation in SQL.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of Database.	K1
CO2	Understand Database Systems Concept and Architecture.	K2
CO3	Demonstrate the functions of the Relational Data Model and SQL.	K3
CO4	Study the basics of Basics SQL.	K4
CO5	Analyze advanced SQL commands and statements.	K5

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

Subject Title	DATABASE SYSTEMS	Semester	I/III	
Subject Code	21UCSA03	Specialization	NA	
Type	Allied: Theory	L:T:P:C	86:6:0:4	
Unit	Contents		Levels	Sessions
I	Introduction to Databases – Introduction - Characteristics of the Database Approach -Advantages of Using the DBMS Approach -A Brief History of Database Applications.		K1	14
II	Database Systems Concept and Architecture : Data Models, Schemas, and Instances - Three Schema Architecture and Data Independence - Database Languages and Interfaces- - The Database System Environment - Centralized and Client/Server Architectures for DBMSs- Classification of Database Management Systems.		K2	18
III	The Relational Data Model and SQL - Database Constraints - Relational Model Concepts- Key concepts - Relational Model Constraints and Relational Database Schemas - Update Operations, Transactions, and Dealing with Constraint Violations.		K3	18
IV	Basic SQL - SQL Data Definition and Data Types - Specifying Constraints in SQL - Basic Retrieval Queries in SQL - INSERT, DELETE, and UPDATE Statements in SQL - Additional Features of SQL.		K4	18
V	More SQL: Complex Queries, Triggers, Views, and Schema Modification - More Complex SQL Retrieval Queries - Specifying Constraints as Assertions and Actions as Triggers -Views (Virtual Tables) in SQL.		K5	18
	Learning Resources			
Text Books	RamezElmasri and Shamkant B. Navathe, “Fundamentals of database systems”, 6 th Edition, Addison-Wesley Publication, 2011.			
Reference Books	Raghu Ramakrishnan, Madison, Johannes Gehrke, “Database Management Systems”, 3 rd Edition, McGraw-Hill Higher Education, 2003.			
Website/ Link	1. www.db-book.com/db7 2. www.mheducation.co.in			

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	M	M
CO2	S	M	L	S
CO3	S	M	L	M
CO4	M	S	M	M
CO5	S	M	L	L

S- Strong , M- Medium , L – Low

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

Subject Title	E-COMMERCE TECHNIQUES	Semester	II/IV
Subject Code	21UCSA04	Specialization	NA
Type	Allied: Theory	L:T:P:C	56:4:0:4

COURSE OBJECTIVE:

1. To improve the understanding of E-COMMERCE and E-payments.
2. To prepare the students implement HTML and E- mail creation.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of Ecommerce and Indian Business.	K1
CO2	Understand WWW.	K2
CO3	Demonstrate the E payment system.	K3
CO4	Study the basics of Web Designing.	K4
CO5	Analyze Email components.	K5

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

Subject Title	E-COMMERCE TECHNIQUES	Semester	II/IV	
Subject Code	21UCSA04	Specialization	NA	
Type	Allied: Theory	L:T:P:C	56:4:0:4	
Unit	Contents		Levels	Sessions
I	History of E-commerce and Indian Business Context: E-Commerce –Emergence of the Internet – Emergence of the WWW – Advantages of E-Commerce – Transition to E-Commerce in India – The Internet and India – E-transition Challenges for Indian Corporate. Business Models for E-commerce: Business Model – E-business Models Based on the Relationship of Transaction Parties - E-business Models Based on the Relationship of Transaction Types. .		K1	12
II	Enabling Technologies of the World Wide Web: World Wide Web – Internet Client-Server Applications – Networks and Internets – Software Agents – Internet Standards and Specifications – ISP.E-Marketing : Traditional Marketing – Identifying Web Presence Goals – Online Marketing – E-advertising – E-branding.		K2	12
III	E-Payment Systems: Main Concerns in Internet Banking – Digital Payment Requirements – Digital Token-based e-payment Systems – Classification of New Payment Systems – Properties of Electronic Cash – Cheque Payment Systems on the Internet. Information systems for Mobile Commerce: Introduction – Wireless Applications – Cellular Network – Wireless Spectrum – Technologies for Mobile Commerce – Wireless Technologies.		K3	12
IV	HTML and Web Designing: Brief History of HTML – HTML Tags – Table Creation – Hyperlink – Reference – Headings – Alignment - Simple Web Page Creation.		K4	10
V	E-mail: Email – Email Components - use of Email–Email creation–browsing–search engines–downloads.		K5	10
	Learning Resources			
Text Books	1. P.T.Joseph, “E-Commerce - An Indian Perspective”, 4th Edition, PHI Learning, 2012. 2. C Xavier, “World Wide Web Design with HTML”, 13th Reprint, Tata McGraw Hill, 2006. 3. A.Leon and M.Leon, “Introduction to Information Technology”, 1st Edition, Vijay Nicole Publications, 2013.			
Reference Books	1. David Whiteley, “E-Commerce Strategy, Technologies and Applications”, 1st Edition, Tata Mc-Graw-Hill, 2001. 2. Kamalesh K Bajaj and Debjani Nag, “E-Commerce – The cutting edge of Business”, 2nd Edition, Tata McGraw-Hill Education, 2005.			

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

	3. Alexis Leon and Mathews Leon, "Internet for Everyone", 15 th Anniversary Edition, Leon Tech world, UBS Publications, 2012. 4. Ritendra Goel, "e-commerce", New Age International Publishers, 2016.
Website/ Link	https://e_commerce_pdf_download.peatix.com/ www.tutorialpoints.com/html https://books.google.com/books/about/a/_wide_web_design_with_html.html?id=6apoxl=z4nwc

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	M	L	L
CO2	S	M	L	L
CO3	S	M	L	L
CO4	M	S	M	M
CO5	S	M	M	L

S- Strong , M- Medium , L – Low

Note: This paper should be handled and valued by Department of Computer Science.

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

Subject Title	ALLIED PRACTICAL - II HTML PROGRAMMING	Semester	II/IV
Subject Code	21UCSAP02	Specialization	NA
Type	Allied: Practical	L:T:P:C	30:0:2:2

COURSE OBJECTIVE:

1. To enable the students to design and develop the WEB PAGES.
2. To qualify the students working with tags in table .
3. To improve creative thinking in forms ,lists and frames.

LIST OF PROGRAMS

1. Write HTML code to develop a web page that contains the different background and foreground color, with various styles.
2. Write HTML code to create a Webpage that contains an Image at its left hand side of the page when user clicks on the image; it should open another web page that displays the details of that image.
3. Create a web Page using HREF tag having the attribute ALINK, VLINK etc.
4. Create a web page, when user clicks on the link it should go to the bottom of the page.
5. Write a HTML code to create a web page of pink color and display moving message in red color.
6. Create a web page, showing an ordered list of name of your five friends and unordered list of any five your hobbies.
7. Create a HTML document containing a nested list showing the content page of any book.
8. Create a student mark list in HTML using Tables.
9. Create a HTML page to demonstrate the usage of Frames. Choose the content of the page on your own.
10. Design an application for pay slip through HTML forms.

COURSE OUTCOME:

On successful completion of the course, the students will

1. Understand the features in HTML.
2. Select and apply tags for create text, list and table.
3. Combine multiple features in forms, frames and texts.

**Note: For University Practical Exam, both Internal and External should be appointed from
Department of Computer Science.**

ALLIED OPTION III

Subject Title	SEMESTER I/III PAPER – I PROGRAMMING IN C	Semester	I/III
Subject Code	21UCSA05	Specialization	NA
Type	Allied: Theory	L:T:P:C	56:4:0:4

Course objective:

1. To apprehend the basic concepts of C- Programming language. This course introduces fundamental concepts such as arrays and structures.
2. It covers concepts such as arrays, pointers and file handling methods.
3. It provides technical skills to design and develop various applications.

CO Number	CO Statement	Knowledge Level
CO1	Recognize the Basic Terminologies of C Programming	K1
CO2	Understanding the statement structure and apply simple problems	K2,K3
CO3	Understand and apply the pre-defined functions and user defined functions and then apply in simple problems	K3
CO4	Demonstrate the operation of Structures and unions.	K3,K4
CO5	Recognize the operation of Files	K3,K4

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

Subject Title	SEMESTER I/III PAPER – I PROGRAMMING IN C	Semester	I/III
Subject Code	21UCSA05	Specialization	NA
Type	Allied: Theory	L:T:P:C	56:4:0:4
Unit	Contents	Levels	Sessions
I	Overview of C: History of C - Importance of C - Basic structure of C programs. Constants, variables and data types: Character set - C Tokens - Keywords and identifiers - Constants - Variables - Data types - Declaration of Variables- Declaration of storage classes - Assigning values to variables - Defining symbolic constants. Operators and expression: Types of Operators - Arithmetic Expressions- Evaluation of expressions - Precedence of arithmetic operators - Type conversions in expressions - Operator precedence and associativity. Managing input and output operations: Reading and writing a character - Formatted input and output.	K1	12
II	Decision making and branching: Simple IF, IF-ELSE, Nesting of IF-ELSE, ELSE-IF ladder, Switch statements- GOTO statements. Decision making and looping: WHILE statement - DO statement - FOR statement - Jumps in loops. Arrays: Definition & Detection - One dimensional - Two dimensional - Multi dimensional arrays - Dynamic arrays.	K2	12
III	Character arrays and strings: Introduction - Declaring and initializing string variables- Reading strings from terminal - Writing strings to screen - String handling functions - Table of strings. User - Defined functions: Introduction - Need for user - defined function - A Multi - function program - Elements of user - defined function - Definition of functions - Return values and their types - Function calls - Function declaration - All category of functions - Nesting of functions - Recursion - Passing arrays to functions - Passing strings to function.	K3	12
IV	Structures and Unions: Introduction - Defining a structure - Declaring structure variables - Accessing structure members - Structure initialization - Copying and comparing structure variables	K4	10

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

	- Arrays of structures - Arrays within structures -Structure within structures - Structures and functions - Unions - Size of structures - Bits fields.		
V	Pointers: Introduction - Understanding pointers - Accessing the address of a variable - Initializing of pointer variables. Chain of pointers - Pointer expression - Pointers and arrays - Pointers and character strings - Arrays of pointers - Pointers as function arguments - Functions returning pointers - Pointers to functions - Pointer and structures. File Management: Introduction - Defining and opening a file - Closing a file – Input/Output operation on files – Error handling during I/O operations – Random access files – Command line arguments.	K5	10
	Learning Resources		
Text books	Programming in ANSI C, E. Balgurusamy Tata McGraw Hall, New Delhi, 5 th Edition.		
Reference Books	1. Schaum's outlines, programming with C, Byron S Gottfried, 2 nd Edition. 2. Let Us C.Yashavant Kanetkar.		
Website/ Link	http://www.learn-c.org/ http://crasseux.com/books/ctutorial/		

Mapping with Programme Outcomes

CO Number	PO1	PO2	PO3	PO4
CO1	S	S	S	-
CO2	S	M	M	S
CO3	S	L	L	M
CO4	M	S	M	S
CO5	S	L	S	S

S- Strong , M- Medium , L – Low

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

Subject Title	PROGRAMMING IN VISUAL BASIC	Semester	II/IV
Subject Code	21UCSA06	Specialization	NA
Type	Allied: Theory	L:T:P:C	56:4:0:4

Course objective:

- To introduce the basics of VB.
- To understand the concepts MDI Applications, ADO and Active X.
- To improve creative thinking in creating forms.

CO Number	CO Statement	Knowledge Level
CO1	Remember the basics of VB.	K1
CO2	Understand data and files in VB.	K2
CO3	Demonstrate the MDI Applications.	K3
CO4	Study of data control.	K4
CO5	Analyze the ADO and Active X.	K5

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

Subject Title	PROGRAMMING IN VISUAL BASIC	Semester	II / IV	
Subject Code	21UCSA06	Specialization	NA	
Type	Allied: Theory	L:T:P:C	56:4:0:4	
Unit	Contents		Levels	Sessions
I	Welcome to Visual Basic – Creating an Application – IDE Forms and Controls – Variables in Visual Basic.		K1	10
II	Writing Code in Visual Basic – Working with File – Menu		K2	10
III	Multiple Document Interface Applications – Debugging Tips – The Common Dialog Control.		K3	12
IV	Introduction to Database – Working with the Data Control – Data Access Objects.		K4	12
V	ActiveX Data Objects – Crystal and Data Report – Active X.		K5	12
	Learning Resources			
Text books	Programming with Visual Basic 6.0, Mohammed Azam, Vikas Publishing House Pvt. Ltd., Chennai.			
Reference Books	1. Gary Cornell, "Visual Basic 6 from the Ground up", McGraw-Hill Education, 1998 2. Julia Case Bradley and Anita C. Millspaugh, "Programming in Visual Basic 6.0", Tata McGraw-Hill Edition, 2011.			
Website/ Link	- NPTEL & MOOC courses titled VB https://www.freetutes.com/learn-vb6/			

Mapping with Programme Outcomes

CO Number	PS01	PS02	PS03	PS04
CO1	S	M	M	--
CO2	M	S	L	-
CO3	S	M	L	M
CO4	S	M	M	L
CO5	S	M	L	L

S- Strong , M- Medium , L – Low

Subject Title	PROGRAMMING IN C & VISUAL BASIC PRACTICAL	Semester	II/IV
Subject Code	21UCSAP03	Specialization	NA
Type	Allied: Practical	L:T:P:C	30:0:2:2

COURSE OBJECTIVE:

1. To impart Practical Training in C Programming Language.
2. Familiarize the different control and decision making statements in “C”.
3. Build programs using arrays and strings.
4. Provide knowledge on working with files and functions.

PROGRAMMING IN C PRACTICAL LIST :

1. Create a program to find the Simple Interest.
2. Create a program to find the Arithmetic Mean and Standard Deviation.
3. Create a program to find the Biggest value among given 3 number.
4. Create a program to calculate the Area of perimeter of square and rectangle.
5. Create a program to convert Binary to Decimal conversion.
6. Create a program to convert Decimal to Binary conversion.
7. Create a program to print the Fibonacci series using Recursion.
8. Create a program to swap the given two integers.
9. Create a program to print the factorial of a number.
10. Create a program to display the multiplication table.

PROGRAMMING IN VISUAL BASIC PRACTICAL LIST:

1. Write a VB program to implement Forms.
2. Write a VB program to implement Input box, and Message box.
3. Write a VB program to implement Control Statements and Loops.
4. Write a VB program to implement Command box, Option button, and Check box.
5. Write a VB program to implement Combo box, List box, and Scroll bars.
6. Write a VB program to implement Timer.
7. Write a VB program to implement MDI Forms.
8. Write a VB program to implement DAO.
9. Write a VB program to implement ADO.
10. Write a VB program to implement a Calculator.

COURSE OUTCOME:

1. Study all the Basic Statements in C Programming.
2. Practice the usage of branching and looping statements.
3. Apply string functions and arrays usage.
4. Analysis the use of pointers and files.
5. Understand the features in VB.
6. Select and apply statements for design forms.
7. Combine multiple features in interface and database.

**Note: For University Practical Exam, both Internal and External should be appointed from
Department of Computer Science.**



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Recognized Under Section 2(f) and 12(B) of UGC Act 1956 and Accredited by NAAC

Tiruchengode-637205



DEPARTMENT OF ENGLISH

SUBJECT CODE WITH TITLE – EVEN SEMESTER 2021 - 2022			
S.NO	III – B.A.ENGLISH	II – B.A.ENGLISH	I – B.A.ENGLISH
01	19UEN11 – SOUTH ASIAN LITERATURE	19UFEN04 – FOUNDATION ENGLISH - IV	21UENC02 – COMMUNICATIVE ENGLISH – II
02	19UEN12 – ENGLISH LANGUAGE TEACHING	19UEN06 - FICTION	21UEN03 – DRAMA
03	19UEN13 – GRAMMAR & SEMANTICS	19UENA04 – PHONETICS & TRANSCRIPTION	21UEN04 – INDIAN WRITING IN ENGLISH
04	19UENE02 – ENGLISH LITERATURE FOR COMPETITIVE EXAMINATION	19UENS03 – PRESENTATION SKILLS	21UENA02 – HISTORY OF ENGLISH LITERATURE
05	19UENP01 – COMMUNICATION SKILLS - PRACTICAL	19UENS04 – PERSONALITY DEVELOPMENT	



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Tiruchengode-637205

DEPARTMENT OF ENGLISH

SUBJECT PREFERENCE/ EVEN SEMESTER - 2021 - 2022

S.NO	NAME OF THE FACULTY	III - B.A. ENGLISH					II - B.A. ENGLISH					I - B.A. ENGLISH				SIGNATURE OF THE FACULTY
		19UEN11	19UEN12	19UEN13	19UEN14	19UENP01	19UFEN04	19UEN06	19UENA04	19UENS03	19UENS04	21UENC02	21UEN03	21UEN04	21UENA02	
01	KANAGARAJAN M					✓									✓	M. Kanagarajan
02	RAMASAMY S			✓			✓							✓		for M. Kanagarajan
03	DINESH P	✓						✓								P. D. Dinesh
04	PAVITHRA K						✓		✓			✓				K. Pavithra
05	BHUVANESWARI K		✓				✓			✓		✓				K. Bhuvaneshwari
06	ARUNACHALAM M										✓	✓	✓			M. Arunachalam
07	MYTHILI J			✓	✓							✓	✓			M. Mythili

M. Kanagarajan
7/3/22

HOD

M. KANAGARAJAN, M.A., M.Phil., B.Ed.,

HOD Cum Asst. Professor in English
Department of English

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Tiruchengode.



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DEPARTMENT OF ENGLISH

SKILL MATRIX/ EVEN SEMESTER – 2021 - 2022

S.NO	NAME OF THE FACULTY	III – B.A.ENGLISH					II – B.A.ENGLISH					I – B.A.ENGLISH			
		19UEN11	19UEN12	19UEN13	19UENE01	19UENP01	19UFEN04	19UEN06	19UENA04	19UENS03	19UENS04	21UENC02	21UEN03	21UEN04	21UENA02
01	KANAGARAJAN M					4									
02	RAMASAMY S			3			6								4
03	DINESH P	2												1	
04	PAVITHRA K						4	1	2			1			
05	BHUVANESWARI K		1				3	1				2			
06	ARUNACHALAM M											2			
07	MYTHILI J				2							2	1		

M. Kanagarajan
HOD

M. KANAGARAJAN, M.A., M.Phil., B.Ed.
HOD Cum Asst. Professor in English
Department of English
Sengunthar Arts and Science College
Tiruchengode.



Since 1991

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Tiruchengode– 637 205, Namakkal Dt., Tamilnadu

DEPARTMENT OF ENGLISH
TITLE OF THE PAPER – 2021- 2022
ODD SEMESTER

S.NO	III-B.A.ENGLISH	II – B.A.ENGLISH	I-B.A.ENGLISH
01	19UEN07 - SHAKESPEARE	19UFEN03 – FOUNDATION ENGLISH - III	20UENC01 – COMMUNICATIVE ENGLISH - I
02	19UEN08 – LANGUAGE AND LIGUISTICS	19UEN05 - DRAMA	21UEN01 – POETRY
03	19UEN09 - FEMINIST WRITING	19UENA03 – LITERARY FORMS AND CRITICISM	21UEN02 – PROSE
04	19UEN10 – AMERICAN LITERATURE	-	21UENA01 – SOCIAL HISTORY OF ENGLAND
05	19UENE01– ENGLISH FOR COMPETITIVE EXAM	-	-

DEPARTMENT OF ENGLISH
SUBJECT PREFERENCE/ ACADEMIC YEAR 2021 - 2022 / ODD SEMESTER

S.No	NAME OF THE FACULTY	III B.A., ENGLISH					II B.A., ENGLISH			I B.A., ENGLISH				FACULTY SIGNATURE
		19UEN07	19UEN08	19UEN09	19UEN10	19UEN01	19UFEN03	19UEN05	19UENA03	20UENC01	21UEN01	21UEN02	21UENA01	
1	KANAGARAJAN M			✓									✓	M. K. Raju
2	RAMASAMY S		✓				✓				✓			P. S. Raju
3	DINESH P				✓			✓		✓		✓		P. D. Raju
4	PAVITHRA K			✓			✓		✓	✓				P. D. Raju
5	BHUVANESHWARI K	✓					✓			✓				K. Bhuj
6	ARUNACHALAM M				✓			✓		✓				M. K. Raju
7	MYTHILI J					✓				✓				P. D. Raju

M. K. Raju
7/10/21



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DEPARTMENT OF ENGLISH

SKILL MATRIX ODD SEMESTER 2021- 2022

S.NO	NAME OF THE FACULTY	III - B.A. ENGLISH					II - B.A. ENGLISH			I - B.A. ENGLISH			
		17UEN07	17UEN08	17UEN09	17UEN10	17UENE01	17UFEN03	17UEN05	17UENA03	20UENC01	21UEN01	21UEN02	21UENA01
01	KANAGARAJAN M			2								4	4
02	RAMASAMY S		2				6					5	
03	DINESH P							2		1	2		
04	PAVITHRA K	1					4		2	2			
05	BHUVANESWARI K	1								2			
06	ARUNACHALAM M				1					2			
07	MYTHILI J					2				1			

M. Kanagarajan
 HOD

M. KANAGARAJAN, M.A., M.F.M., D.C.U.,
 HOD Cum Asst. Professor in English
Department of English
Sengunthar Arts and Science College
Tiruchengode,



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UG Camp
PB

Department Work load details for the Odd / Even Semester (2021 - 2022)

Department of COMPUTER SCIENCE

Class	Theory (Hrs/Week)	Practical (Hrs/Week)	Total
I Year	8	4	12
II Year	7	3	10
III Year	22	8	30
Classes to Other Department			
Total			

Total number of teaching staff in department :

Signature of H.O.D.

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Principal



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Department Work load details for the Odd / Even Semester (2021 - 2022)

Department of COMPUTER APPLICATIONS

Class	Theory (Hrs/Week)	Practical (Hrs/Week)	Total
I Year	7	4	11
II Year	15	5	20
III Year	22	8	30
Classes to Other Department			
III B.B.A	5		5
III B.COM [CA]	6		6
III B.COM 'A'	6		6
III B.COM 'B'	6		6
II B.COM [CA]	5		5
I B.COM [CA]	5		5
II B.SC [ELECTRONICS]	4		6
II B.SC [ELE & PHY]	2	2	2
II B.SC [PHYSICS]	4		4
II B.SC [CHEMISTRY]	2		2
B.Sc [CS]	37	15	52
Total	126	34	160

Total number of teaching staff in department : 10

Signature of H.O.D.

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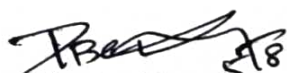
Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : P. BALAMURUGAN

Date: 5.8.21

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	MULTI SKILL DEVELOPMENT	III. B.Sc. [CS]	2
2	MULTI SKILL DEVELOPMENT	III B.CA	2
3	E-COMMERCE	II MBA	4
4			
5			
6			
7			
8			
Practical			
1	DATA STRUCTURE LAB	II B.CA	2
2	JAVA PROGRAMMING LAB	III B.CA	2
3			
Total			12


Staff's Signature


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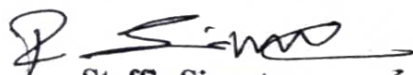
Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : R. SENTHIL KUMAR

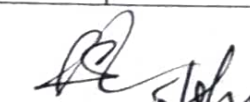
Date: 5.8.21

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	JAVA PROGRAMMING	III BCA	5
2	SOFTWARE DEVELOPMENT WITH VISUAL PROGRAMMING	III .B.com [CA]	6
3	MANAVALEKALAT YOGA	I .B.Sc [CS]	2
4			
5			
6			
7			
8			
Practical			
1	JAVA PROGRAMMING LAB	III BCA	3
2			
3			
Total			16


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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : S. BALACHANDAR

Date: 5-8-21

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	DATA STRUCTURES AND ITS ALGORITHMS	II - B.Sc [CS]	4
2	INFORMATION TECHNOLOGY IN BUSINESS	III - B.Com 'B'	6
3	WEB TECHNOLOGIES	III - BCA	5
4			
5			
6			
7			
8			
Practical			
1	IMAGE EDITING TOOL LAB	III BCA	3
2			
3			
Total			18

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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : E. PRABAKAR RAO

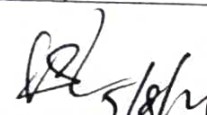
Date: 5-8-21

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	GUI PROGRAMMING	II . B . SC [CS]	5
2	INFORMATION TECHNOLOGY IN BUSINESS	III . B . com 'A'	6
3	MANAVALAKALAI YOGA	T BCA	2
4			
5			
6			
7			
8			
Practical			
1	PROGRAMMING IN VB	III . B . Sc [cs]	5
2			
3			
Total			18


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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : S. SOUNDARARAJAN

Date: 5-8-21

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	OPERATING SYSTEMS	III . B.Sc [CS]	5
2	FUNDAMENTALS OF COMPUTER & ITALLY	II . B.COM [CA]	5
3	C-PROGRAMMING	II . B.Sc [ELE]	4
4			
5			
6			
7			
8			
Practical			
1	C-PROGRAMMING LAB	II . B.Sc [ELE]	2
2			
3			
Total			16

S. Soundararajan
Staff's Signature

S. Soundararajan
Head of the Department

S. Soundararajan
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S. Soundararajan
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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : A. SHAKESPEAR

Date: 5.8.21

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	COMPUTER APPLICATION FOR AUTOMATION	I B.C.A	5
2	MANAGEMENT INFORMATION SYSTEM	III B.B.A	5
3	E-COMMERCE TECHNIQUES	III B.C.A	3
4			
5			
6			
7			
8			
Practical			
1	PRACTICAL-OFFICE AUTOMATION	I.B.C.A	4
2			
3			
Total			17

A- 
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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Date: 5.8.21

Name of the staff : M. CHINNUSAMY

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	COMPUTER NETWORKS	III. B.Sc [CS]	5
2	PROBLEM SOLVING TECHNIQUES	III. BCA	5
3	C- PROGRAMMING	II. B.Sc [PHYSICS]	4
4			
5			
6			
7			
8			
Practical			
1	PRACTICAL- SHELL PROGRAMMING	III. B.Sc [CS]	3
2			
3			
Total			17


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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : V. BALASUBRAMANIAM

Date: 5-8-21

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	BUSINESS APPLICATION SOFTWARE	T. B. Com [CA]	2
2	FUNDAMENTALS OF DIGITAL COMPUTERS	II BCA	5
3	MICROPROCESSOR	T. B. Sc [CS]	6
4			
5			
6			
7			
8			
Practical			
1	PRACTICAL - MICROPROCESSOR	T. B. Sc [CS]	4
2			
3			
Total			17

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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Date: 5-8-21

Name of the staff : A. SUGANTHI

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	PROGRAMMING IN C++	II. B. SC [CS]	3
2	E-COMMERCE TECHNIQUES	III. BCA	2
3	DESIGN STRUCTURED SYSTEM ANALYSIS AND	II. BCA	5
4	NMEC- BASICS OF COMPUTERS	II. B. SC [ELE & PHY]	2
5	NMEC- BASICS OF COMPUTERS	II. B. SC [CHEMISTRY]	2
6			
7			
8			
Practical			
1	PROGRAMMING IN C++	II. B. SC [CS]	3
2			
3			
Total			17

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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

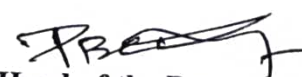
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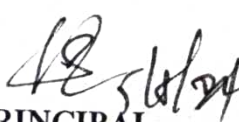
Name of the staff : G. SENTHIL KUMAR

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	PROBLEM SOLVING TECHNIQUES	III. B.Sc [CS]	5
2	DATA STRUCTURES AND ITS ALGORITHMS	II BCA	5
3	BUSINESS APPLICATION SOFTWARE	T.B.COM [CA]	3
4			
5			
6			
7			
8			
Practical			
1	DATA STRUCTURES USING C	II BCA	3
2			
3			
Total			16


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Department Work load details for the Odd / Even Semester (2021 - 2022)

Department of Computer Science

Class	Theory (Hrs/Week)	Practical (Hrs/Week)	Total
I Year	9	3	12
II Year	6	3	9
III Year	22	8	30
Classes to Other Department			
Total	37	14	51
	79	34	113
	116	48	164

Total number of teaching staff in department : 10

Signature of H.O.D.

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Department Work load details for the Odd / Even Semester (2021 - 2022)

Department of Computer application

Class	Theory (Hrs/Week)	Practical (Hrs/Week)	Total
I Year	9	3	12
II Year	16	4	20
III Year	22	8	30
Classes to Other Department			
I Bcom CA	5	3	8
II Bcom CA	5	5	10
III BBA	4	2	6
IV B.Sc Microbiology	4	3	7
V B.Sc Biotechnology	6	3	9
VI B.Sc Chemistry	2	-	2
VII B.Sc Physics & Electronics	2	-	2
VIII B.Sc Electronics	4	3	7
Total	79	34	113

Total number of teaching staff in department : 10

Signature of H.O.D.

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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : P. Balakumaran

Date:

Department : Computer Science

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	Environmental studies	I BCA	1
2	Environmental studies	I B-sc (cs)	1
3	Operating System	II BCA	2
4	Computer organisation and architecture	I B-sc (cs)	1
5	Computer organisation and architecture	I BCA	1
6			
7			
8			
	Practical		
1	Computer Applications in management (practical oriented)	II MBA	6
2			
3			
	Total		12.1

P. Balakumaran
Staff's Signature

P. Balakumaran
Head of the Department

P. Balakumaran
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P. Balakumaran
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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : S. Balachandrar

Date:

Department : Computer Science

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	Docking and warehousing	III - Bca	5
2	E-Commerce Techniques	III - Bca (Elective 1)	4
3	Internet and its Applications	III - a.sc (co)	2
4			
5			
6			
7			
8			
	Practical		
1	Android Programming	III - Bca	5
2	Web Programming	III - Bca (Elective 1)	3
3			
Total			17


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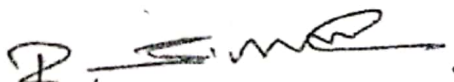
Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Date: 02/06/22

Name of the staff : R. SENTHILKUMAR

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	GUI PROGRAMMING	III BCA	5
2	COMPUTER ORGANISATION AND ARCHITECTURE	I BCA	3
3	E-COMMERCE TECHNIQUES	II BSCCBIO TECHNOLOGY	3
4			
5			
6			
7			
8			
Practical			
1	PROGRAMMING IN VB	III BCA	3
2	HTML PROGRAMMING	II BIOTECHNOLOGY	3
3			
Total			17 ✓


Staff's Signature


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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Date:

Name of the staff : G. Senthil Kumar

Department : Computer science

S. No.	Title of the paper	Class	Hours per week
Theory			
1	Data mining and warehousing	III CS	5
2	Object oriented programming with C++	II BCA	4
3	Database management system	I Bcom CA	2
4	HTML & Java script	II BCA	1
5			
6			
7			
8			
Practical			
1	Programming in C++	II BCA	4
2	MS Office	I Bcom CA	1
3			
Total			17

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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Date:

Name of the staff : A. SHAKESPEAR

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++	I BCA	4
2	SOFTWARE ENGINEERING	II B.Sc CS	5
3	COMPUTER APPLICATIONS IN BUSINESS	III B.B.A.	4
4			
5			
6			
7			
8			
Practical			
1	PRACTICAL II - C++ PROGRAMMING LAB	I B.C.A	3
2	PRACTICAL - COMPUTER APPLICATIONS IN BUSINESS	III B.B.A	2
3			
Total			18


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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Name of the staff : E. PRABAKAR RAT

Date:

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	JAVA PROGRAMMING	III.B.Sc[CS]	5
2	E-COMMERCE TECHNIQUES	II.B.Sc[BIO-TECH]	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	I.B.Sc[CS]	3
4	5BEC-HTML AND JAVASCRIPT	II.B.C.A	1
5			
6			
7			
8			
	Practical		
1	PROGRAMMING IN JAVA	III.B.Sc[CS]	5
2			
3			
	Total		17 ✓

E. Prabal

Staff's Signature

[Signature]

Head of the Department

[Signature]
PRINCIPAL

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[Signature]
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Individual staff Work load details for the Odd / Even Semester (20 21 - 20 22)

Date:

Name of the staff : S. SOUNDARARATAN

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	COMPUTER NETWORK	III - BCA	5
2	PHP SCRIPTING LANGUAGE	III - B.Sc[CS]	2
3	E-COMMERCE	II - B.Com(CA)	5
4			
5			
6			
7			
8			
	Practical		
1	PRACTICAL - II - TALLY	II - B.Com(CA)	5
2			
3			
	Total		17


Staff's Signature


Head of the Department


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SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.



SENGUNTHAR ARTS AND SCIENCE COLLEGE

(Affiliated to Periyar University, Salem and Approved by AICTE, New Delhi)

An ISO 9001:2015 Certified Institution

Recognised under section 2(f) and 12(B) of the UGC Act 1956 and Accredited by NAAC

TIRUCHENGODE - 637 205



Individual staff Work load details for the ~~Odd~~ / Even Semester (20 21 - 20 22)

Date:

Name of the staff : M. CHINNUSAMY

Department : COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
Theory			
1	Computer Graphics	III B.Sc. CS	5
2	Shell programming	IV BCA	2
3	Programming in VB	II B.Sc. Electronics & Communication	4
4			
5			
6			
7			
8			
Practical			
1	Image editing tool		3
2	Practical - programming in visual basic		2
3			
Total			16


Staff's Signature


Head of the Department


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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Date:

Name of the staff : Mr. V. Balasubramanyam

Department : Computer Science

S. No.	Title of the paper	Class	Hours per week
Theory			
1	Datastructure and Algorithms	I-B.Sc(CS)	4
2	Database Management System	I-B.Com(CA)	2
3	Multimedia	III-BCA	4
4	Operating System	II-BCA	3
5			
6			
7			
8			
Practical			
1	Practical-II: Datastructure using C	I-B.Sc(CS)	3
2	Practical-I: M.S. Office LAR	I-B.Com(CA)	2
3			
Total			18

Staff's Signature

Head of the Department

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Since 1991

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Individual staff Work load details for the Odd / Even Semester (2021 - 2022)

Date:

Name of the staff : Ms. A. Suganthi

Department : Computer Science

S. No.	Title of the paper	Class	Hours per week
Theory			
1	Relational Database Management system	II - B - SC (CS)	4
2	Relational Database Management system	II - BCA	5
3	Multimedia	III - BCA	1
4	NIIEP-II: Office Automation	II - B - SC (Chem, Phy, etc)	2
5			
6			
7			
8			
Practical			
1	Practical-IV - RDBMS LAB	II - B - SC (CS)	3
2	Practical-VI - VB LAB	III - BCA	2
3			
Total			17

Staff's Signature

Head of the Department

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE.
TIMETABLE – 2021-2022(ODD SEMESTER)

I - DAY ORDER							
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour	
II M.COM. (CS)	Major (TG)	Major (NSC)	Library (PJ)	Major (NSC)	Library (PJ)		
I M.COM. (CS)	Major (NSC)	Library (PJ)	Major (SSE)	Library (PJ)	Major (NSC)		
II M.A. (ENGLISH)	Major (SD)	Major (JME)	Major(SSBE)	Major (SD)	Library (PJ)		
I M.A. (ENGLISH)	Major(SSBE)	Major (SD)	Library (PJ)	Major(SSBE)	Major (SD)		
II M.COM.	Major (SSCA)	Major (LR)	Major (TRM)	Major (TRM)	Major (LR)		
I M.COM.	Major (RMK)	Major (SSCA)	Major (RMK)	Major (LR)	Major (SSCA)		
II M.C.A.	Major (TG)	Major (RB)	Major (JKK)	←----- LAB (RB) -----→			
I M.C.A.	←----- LAB (PG) -----→			Major (JKK)	Major (PG)		
II M.Sc. (C.S.)	Major (RB)	Major (JKK)	Major (PG)	Major (JKK)	Major (RB)		
I M.Sc. (C.S.)	Major (JKK)	Major (TG)	Major (RB)	Major (PG)	Major (TG)		
II M.Sc. (BT)	Major (KVK)	Major (ML)	Major (ML)	Major (KVK)	Major (KVK)		
I M.Sc. (BT)	Major (ML)	Major (KV)	Major (RRW)	←----- LAB (RRW) -----→			
II M.Sc. (APP.MIC)	Major (SN)	Major (PAK)	←-----Major lab (APV/PAK)-----→				
I M.Sc. (APP.MIC)	Major (TN)	Major (SN)	←-----Major Lab (APV/PAK) -----→				
II M.Sc. (Biochem.)	Major (JM)	Major (KK)	Major (PSK)	Allied (LC)	Major (KK)		
I M.Sc. (Biochem.)	Major (KK)	Major (PSK)	Major (JM)	Major (PSK)	Major (KK)		
II M.Sc. (MATHS)	Major (JSM)	Major (LC)	Major (STN)	Major (MG)	Allied (JKK)		
I M.Sc. (MATHS)	Major (KC)	Major (SSM)	Major (RK)	Major (JSM)	Major (SSM)		

SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE.
TIMETABLE – 2021-2022 (ODD SEMESTER)

II - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour
II M.COM. (CS)	Major (NSC)	Library (PJ)	Major (NSC)	←----- LAB (TG) -----→		
I M.COM. (CS)	Library (PJ)	Major (NSC)	Library (PJ)	Major (SSE)	Major (NSC)	
II M.A. (ENGLISH)	Major(SSBE)	Library (PJ)	Major (JME)	Major(SSBE)	Major (SD)	
I M.A. (ENGLISH)	Major (SD)	Major(SSBE)	Major (SD)	Major (SD)	Library (PJ)	
II M.COM.	Major (LR)	Major (SSCA)	Major (TRM)	Major (LR)	Major (TRM)	
I M.COM.	Major (TRM)	Major (LR)	Major (RMK)	Major (SSCA)	Major (SSCA)	
II M.C.A.	←----- LAB (TG) -----→			Major (RB)	Major (TG)	
I M.C.A.	Major (PG)	Major (RB)	Major (JKK)	Major (TG)	Major (JKK)	
II M.Sc. (C.S.)	Major (TG)	Major (PG)	Major (TG)	←----- LAB (PG) -----→		
I M.Sc. (C.S.)	←-----LAB (TG) -----→			Major (JKK)	Major (RB)	
II M.Sc. (BT)	Major (RRW)	Major (KVK)	Major (PV)	Major (KVK)	Major (KVK)	
I M.Sc. (BT)	Major (KV)	Major (ML)	←-----Major lab (ML) -----→			
II M.Sc. (APP.MIC)	Major (TN)	Major (SN)	←----- Major lab (TN/PAK) -----→			
I M.Sc. (APP.MIC)	Major (PAK)	Major (APV)	←----- Major lab (TN/PAK) -----→			
II M.Sc. (Biochem.)	Major (KK)	Major (JM)	Allied (LC)	Major (JM)	Major (JM)	
I M.Sc. (Biochem.)	Major (PSK)	Major (KK)	Major (JM)	Major (JM)	Major (KK)	
II M.Sc. (MATHS)	Major (STN)	Allied (JKK)	Major (JSM)	Major (GR)	Major (MG)	
I M.Sc. (MATHS)	Major (JSM)	Major (SSM)	Major (KC)	Major(STN)	Major (SSM)	


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TIMETABLE – 2021-2022 (ODD SEMESTER)

III - DAY ORDER							
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour	
II M.COM. (CS)	Major (NSC)	Major (TG)	Library (PJ)	Major (NSC)	Library (PJ)		
I M.COM. (CS)	Library (PJ)	Major (NSC)	Major (SSE)	Library (PJ)	Major (NSC)		
II M.A. (ENGLISH)	Major (SD)	Major (JME)	Major(SSBE)	Major (SD)	Library (PJ)		
I M.A. (ENGLISH)	Major(SSBE)	Major (SD)	Library (PJ)	Major(SSBE)	Major (SD)		
II M.COM.	Major (LR)	Major (TRM)	Major (TRM)	Lib-II, IV (LR)	Major (SSCA)		
I M.COM.	Major (RMK)	Major (SSCA)	Lib-II, IV (LR)	Major (RMK)	Major (RMK)		
II M.C.A.	←-----LAB (RB) -----→			Lib-II, IV (TG)	Major(RB)		
I M.C.A.	Major (PG)	Major (JKK)	Major (TG)	←-----LAB (PG) -----→			
II M.Sc. (C.S.)	Major (PG)	Major (RB)	Major (PG)	Major (JKK)	Major (PG)		
I M.Sc. (C.S.)	Major (TG)	Major (PG)	Major (JKK)	←----- LAB (JKK) -----→			
II M.Sc. (BT)	←--Major lab (KVK))---→		Major (KVK)	Major (ML)	Major (ML)		
I M.Sc. (BT)	Major (PV)	Major (KV)	←----- Major lab (KV) -----→				
II M.Sc. (APP.MIC)	Major (APV)	Major (PAK)	←----- Major lab (SN/TN) -----→				
I M.Sc. (APP.MIC)	Major (PAK)	Major (SN)	←----- Major lab (SN/TN) -----→				
II M.Sc. (Biochem.)	←----- Major lab (JM) -----→						
I M.Sc. (Biochem.)	Major (JM)	Major (KK)	Major (PSK)	Major (PSK)	Major (KK)		
II M.Sc. (MATHS)	Allied (JKK)	Major (GR)	Major (LC)	Major (JSM)	Major (STN)		
I M.Sc. (MATHS)	Major (STN)	Major (RK)	Major (JSM)	Major (KC)	Major (LC)		

SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE.
TIMETABLE – 2021-2022 (ODD SEMESTER)

IV - DAY ORDER							
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour	
II M.COM. (CS)	Library (PJ)	Major (NSC)	Major (NSC)	Major (TG)	Library (PJ)		
I M.COM. (CS)	Major (NSC)	Major (SSE)	Library (PJ)	Library (PJ)	Major (NSC)		
II M.A. (ENGLISH)	Major(SSBE)	Major (SD)	Major(SSBE)	Major (SD)	Major (JME)		
I M.A. (ENGLISH)	Major (SD)	Major(SSBE)	Major (SD)	Major(SSBE)	Major (SD)		
II M.COM.	Major (LR)	Major (TRM)	Major (LR)	Major (SSCA)	Major (TRM)		
I M.COM.	Major (RMK)	Major (LR)	Major (TRM)	Major (RMK)	Major (SSCA)		
II M.C.A.	Major (TG)	Major (PG)	Major (JKK)	←----- LAB (RB) -----→			
I M.C.A.	←----- LAB (JKK) -----→			Major (JKK)	Major (PG)		
II M.Sc. (C.S.)	←-----LAB (JKK) -----→			Major (PG)	Major (TG)		
I M.Sc. (C.S.)	Major (PG)	Major (RB)	Major (TG)	←-----LAB (TG) -----→			
II M.Sc. (BT)	Major (RRW)	Major (RRW)	←----- Major lab (KVK)) -----→				
I M.Sc. (BT)	←----- Major lab (KVK) -----→		Major (RRW)	Major (PV)	Major (KV)		
II M.Sc. (APP.MIC)	Major (TN)	Major (SN)	Major (PAK)	←----- APV/PAK -----→			
I M.Sc. (APP.MIC)	Major (PAK)	Major (TN)	Major(APV)	←----- APV/PAK -----→			
II M.Sc. (Biochem.)	Major (KK)	Allied (GR)	Major (PSK)	Major (KK)	Major (PSK)		
I M.Sc. (Biochem.)	←-----MAJOR LAB (JM) -----→						
II M.Sc. (MATHS)	Major (MG)	Major (JSM)	Major (LC)	Major (STN)	Allied (JKK)		
I M.Sc. (MATHS)	Major (SSM)	Major (KC)	Major (STN)	Major (JSM)	Major (LC)		

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TIMETABLE – 2021-2022 (ODD SEMESTER)

V - DAY ORDER							
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour	
II M.COM. (CS)	Library (PJ)	Major (NSC)	Library (PJ)	Major (NS)	Library (PJ)		
I M.COM. (CS)	Major (NSC)	Library (PJ)	Library (PJ)	Major (SSE)	Major (NSC)		
II M.A. (ENGLISH)	Major (SD)	Major(SSBE)	Major (SD)	Major (JME)	Major(SSBE)		
I M.A. (ENGLISH)	Major(SSBE)	Major (SD)	Major(SSBE)	Major (SD)	Major (SD)		
II M.COM.	Major (RMK)	Major (SSCA)	Major (LR)	Major (TRM)	Major (LR)		
I M.COM.	Major (SSCA)	Major (TRM)	Major (TRM)	Major (LR)	Major (SSCA)		
II M.C.A.	Major (TG)	Major (JKK)	Major (PG)	Major (RB)	Major (TG)		
I M.C.A.	Major (RB)	Major (TG)	Major (RB)	Major (TG)	Major (PG)		
II M.Sc. (C.S.)	←-----LAB (PG) -----→			Major (RB)	Major (PG)		
I M.Sc. (C.S.)	←-----LAB (JKK) -----→			Major (PG)	Major (JKK)		
II M.Sc. (BT)	Major (RRW)	Major (RRW)	←----- MAJOR LAB (ML) -----→				
I M.Sc. (BT)	Major (PV)	Major (KV)	Major (KV)	Major (PV)	Major (KVK)		
II M.Sc. (APP.MIC)	Major (PAK)	Major (SN)	Lib-II, IV(APV)	Major (TN)	Major (SN)		
I M.Sc. (APP.MIC)	Major (APV)	Major (PAK)	Major (SN)	Lib-II, IV(APV)	Major (PAK)		
II M.Sc. (Biochem.)	Major (KK)	Allied (GR)	Lib-II, IV (PSK)	Lib-II, IV (JM)	Major (PSK)		
I M.Sc. (Biochem.)	←-----MAJOR LAB (PSK) -----→						
II M.Sc. (MATHS)	Major (GR)	Major (JSM)	Major (STN)	Allied (JKK)	Major (MG)		
I M.Sc. (MATHS)	Major (JSM)	Major (KC)	Major (LC)	Lib-II, IV (STN)	Major (RK)		

SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE.
TIMETABLE – 2021-2022 (ODD SEMESTER)

VI - DAY ORDER							
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour	
II M.COM. (CS)	Major (NSC)	Major (TG)	Library (PJ)	Library (PJ)	Major (NSC)		
I M.COM. (CS)	Major (SSE)	Library (PJ)	Major (NSC)	Major (NSC)	Library (PJ)		
II M.A. (ENGLISH)	Major(SSBE)	Major (JME)	Major (SD)	Major(SSBE)	Major (SD)		
I M.A. (ENGLISH)	Major (SD)	Major(SSBE)	Major(SSBE)	Major (SD)	Major(SSBE)		
II M.COM.	Major (LR)	Major (TRM)	Major (LR)	Major (RMK)	Major (SSCA)		
I M.COM.	Major (TRM)	Major (RMK)	Major (TRM)	Major (SSCA)	Major (LR)		
II M.C.A.	Major (TG)	Major (JKK)	Major (PG)	Major (TG)	Major (PG)		
I M.C.A.	Major (RB)	Major (PG)	Lib-II, IV (JKK)	←-----LAB (JKK) -----→			
II M.Sc. (C.S.)	Major (TG)	Major (JKK)	Lib-II, IV (PG)	←-----LAB (JKK) -----→			
I M.Sc. (C.S.)	Major (PG)	Major (RB)	Lib-II, IV (TG)	Major (PG)	Major (TG)		
II M.Sc. (BT)	←----MAJOR LAB (KV)---→		Lib-II, IV (ML)	Major (PV)	Major (RRW)		
I M.Sc. (BT)	Major (PV)	Major (RRW)	Major (KVK)	Lib-II, IV (ML)	Major (KV)		
II M.Sc. (APP.MIC)	Major (PAK)	Major (APV)	Major (SN)	Major (APV)	Major (SN)		
I M.Sc. (APP.MIC)	Major (APV)	Major (TN)	Major (PAK)	Major (TN)	Major (PAK)		
II M.Sc. (Biochem.)	←-----MAJOR LAB (PSK) -----→						
I M.Sc. (Biochem.)	Major (KK)	Major (JM)	Major (KK)	Major (PSK)	Major (JM)		
II M.Sc. (MATHS)	Allied (JKK)	Major (STN)	Major (MG)	Lib-II, IV r (LC)	Major (JSM)		
I M.Sc. (MATHS)	Major (STN)	Major (LC)	Major (JSM)	Major (KC)	Major (SSM)		


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TIMETABLE – 2021-2022 (ODD SEMESTER)

I - DAY ORDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.) II B.A. (ENG.) I B.A. (ENG.)	Major (KB)	Major (MKE)	Place-I, III (BP)	Lib-I, III (JM)	Major (SRE)
	Major (PD)	Major (KP)	Tam (AST)	SBEC (KB)	Eng (KP)
	Tam (KST)	Major (SRE)	Major (PD)	Major (MKE)	Eng (MA)
III BCOM – A III BCOM – B II BCOM – A II BCOM – B I BCOM	Major (MRC)	Major (RUV)	Major (MNC)	Major (MRC)	Major (RUV)
	Major (SBC)	Major (SK)	Major (SBC)	Major (SK)	Major (MNC)
	Major (MNC)	Allied (MG)	Lib-II, IV(MRC)	Major (RUV)	Major (MRC)
	Major (RUV)	Allied (RK)	Major (SK)	Lib-II, IV(MNC)	Allied (BP)
	Major (SK)	Eng (MA)	Tam (KU)	Allied (SSE)	Major (SK)
III B.B.A. II B.B.A. I B.B.A.	Major (BP)	Major (RRB)	Allied (ASC)	Allied (KC)	Major (SSB)
	Allied (SSE)	Major (SSB)	Major (RRB)	Major (BP)	Major (RRB)
	Allied (GR)	Tam (AST)	Major (SSB)	Lib-II, IV (RRB)	Eng (MA)
III BCOM (CA) II BCOM (CA) I BCOM (CA)	Major (LR)	Major (TRM)	Lib-I, III (SSCA)	Allied (RSK)	Major (TRM)
	Allied (SSN)	Allied (STN)	Allied (GR)	Major (SSCA)	Major (RMK)
	Major (TRM)	Major (RMK)	Major (LR)	Eng (KP)	Tam (UK)
III B.Sc. (ELEC.) II B.Sc. (ELEC.)	←-----Major Lab (AK) -----→			Lib-I, III (SR)	Major (KBW)
	Major (PR)	Tam (KST)	Allied (SSN)	NMEC (AS)	Eng (KP)
III B.Sc.(CS) II B.Sc.(CS) I B.Sc.(CS)	Major (MC)	Major (EP)	Major (GSK)	Major (SSN)	Major (EP)
	←-----Placement Lab (AS) -----→			Tam (PST)	Eng (KB)
	Yoga (RSK)	Tam (MS)	Eng (JM)	Allied (GR)	Major (VB)
III B.C.A. II B.C.A. I B.C.A.	←-----M.Sc. Lab (RSK) -----→			Major (SBC)	Major (MC)
	Major (VB)	Major (GSK)	Major (VB)	Allied (PR)	Major (GSK)
	Tam (AST)	Major (ASC)	Yoga (EP)	Tam (KU)	Eng (MA)
III B.Sc.(Maths) II B.Sc.(Maths) I B.Sc.(Maths)	Major (STN)	Major (KC)	Place-II, IV (BP)	←----- M.B.A. Lab (STN) -----→	
	Eng (SRE)	Tam (KST)	Major (KC)	Allied (SSM)	Major (RK)
	Major (MG)	Eng (PD)	Major (SSM)	Major (RK)	Tam (KST)
III B.Sc.(Micro) II B.Sc.(Micro) I B.Sc.(Micro)	Major (PAK)	Major (APV)	Major (SN)	Major (APV)	Major (PAK)
	Allied (RK)	Major (TN)	Tam (UK)	Major (SN)	Eng (KP)
	Tam (MS)	Eng (KB)	←----- Allied Lab (KK) -----→		
III B.Sc.(BT) II B.Sc.(BT) I B.Sc.(BT)	Major (RRW)	Major (KVK)	Major (PV)	Major (PV)	Major (KV)
	Eng (SRE)	Tam (RST)	←----- Major Lab (KV) -----→		
	Tam (KST)	Eng (KB)	←----- Allied Lab (KK) -----→		
III B.Sc.(Physics) II B.Sc.(Physics) I B.Sc.(Physics)	←-----Major Lab (AK) -----→			Major (KBW)	Major (PR)
	Major (KBW)	Tam (KST)	SBEC (MC)	NMEC (AS)	Eng (KP)
	←-----Major Lab (AK) -----→			Tam (MS)	Eng (MA)
III B.Sc.(Chemistry) II B.Sc.(Chemistry) I B.Sc.(Chemistry)	←----- Major Lab (TSS) -----→				
	Eng (SRE)	Allied (KBW)	Tam (AST)	NMEC (AS)	Major (TSS)
	Major (NH)	Eng (PD)	Major (TSS)	Tam (MS)	Major (NH)
III B.Sc.(Bioche) I B.Sc.(Bioche)	Major (PSK)	Major (JM)	Major (KK)	Major (JM)	Major (PSK)
	Tam (KU)	Eng (PD)	Major (PSK)	Allied (NH)	Major (JM)
III B.Sc.(Botany) II B.Sc.(Botany)	Major (DM)	Elective (DM)	Major (DM)	Lib-I, III (GD)	SBEC (DM)
	←----- Zoology Lab (GD) -----→			Tam (RST)	Eng (KP)
I B.A. (TAMIL)	Tam (RST)	Eng (PD)	Major (KST)	Major (UK)	Major (KU)

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TIMETABLE – 2021-2022 (ODD SEMESTER)

II - DAY ORDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.) II B.A. (ENG.) I B.A. (ENG.)	Major (JM)	Major (KB)	Major (SRE)	Major (MKE)	Major (MA)
	Tam (AST)	Eng (KP)	NMEC (BP)	Allied (KP)	Major (PD)
	Allied (MKE)	Tam ((RST)	Eng (MA)	Major (PD)	Major (SRE)
III BCOM – A III BCOM – B II BCOM – A II BCOM – B I BCOM	Major (RUV)	Major (MRC)	Lib-I, III (MNC)	Major (SK)	Allied (EP)
	Major (MRC)	Major (RUV)	Lib-I, III (RUV)	Major (MNC)	Major (MNC)
	Allied (MG)	Major (MNC)	Major (SK)	←---- Placement Lab (RUV) ->	
	Allied (RK)	Major (SK)	Major (MRC)	Major (MRC)	Major (MNC)
	Major (MNC)	Allied (SSE)	Tam (KU)	Eng (MA)	Major (SK)
III B.B.A. II B.B.A. I B.B.A.	Major (BP)	Allied (KC)	Major (SSB)	Lib-I, III (RRB)	Major (SSB)
	Major (SSB)	Major (RRB)	Major (RRB)	Major (BP)	Allied (SSE)
	Major (RRB)	Tamil (AST)	Eng (MA)	Major (SSB)	Allied (GR)
III BCOM (CA) II BCOM (CA) I BCOM (CA)	Major (SSCA)	Allied (RSK)	Place-II, IV (BP)	Major (TRM)	Major (LR)
	Major (RMK)	Major (RMK)	Major (SSCA)	Major (RMK)	Allied (SSN)
	Eng (KP)	Major (TRM)	Lib-II, IV (UK)	Allied (VB)	Major (RMK)
III B.Sc. (ELEC.) II B.Sc. (ELEC.)	Major (PR)	Major (KBW)	Major (PR)	Major (PR)	Major (SR)
	Tam (KST)	Eng (KP)	←----- Major Lab (KBW) ----->		
III B.Sc.(CS) II B.Sc.(CS) I B.Sc.(CS)	←----- Placement Lab (EP) ----->			Major (SSN)	SBEC (PB)
	Major (AS)	Major (SBC)	Tam (RST)	Lib-II, IV (SBC)	Eng (KB)
	Major (VB)	Allied (GR)	Major (VB)	Tam (MS)	Eng (JM)
III B.C.A. II B.C.A. I B.C.A.	Major (SBC)	Major (MC)	Major (RSK)	Lib-I, III (AS)	SBEC (PB)
	Major (GSK)	Major (AS)	←----- M.Sc. Lab (GSK) ----->		
	←----- M.Sc. Lab (ASC) --->		Eng (MA)	Tam (AST)	Major (ASC)
III B.Sc.(Maths) II B.Sc.(Maths) I B.Sc.(Maths)	Major (KC)	Major (MG)	Major (GR)	Major (JSM)	Major (STN)
	Tam (KST)	Eng (SRE)	Major (SSM)	Major (RK)	Allied (KC)
	Allied (AK)	Eng (PD)	Major (RK)	Major (MG)	Tam (KST)
III B.Sc.(Micro) II B.Sc.(Micro) I B.Sc.(Micro)	Major (APV)	Major (PAK)	Place-I, III (BP)	Major (SN)	Major (APV)
	Allied (SSM)	Eng (KP)	Major (SN)	Tam (UK)	Allied (RK)
	Eng (KB)	Tam (MS)	←----- Major Lab (SN/APV) ----->		
III B.Sc.(BT) II B.Sc.(BT) I B.Sc.(BT)	Major (ML)	Major (PV)	Major (KVK)	Major (PV)	Major (RRW)
	Allied (SSM)	Eng (SRE)	Major (RRW)	Tam (RST)	Major (PV)
	Eng (KB)	Tam (RST)	←----- Major Lab (KV) ----->		
III B.Sc.(Physics) II B.Sc.(Physics) I B.Sc.(Physics)	Major (KBW)	Major (PR)	Major (AK)	Lib-I, III (KBW)	Major (PR)
	Tam (KST)	Eng (KP)	←----- Major Lab (KBW) ----->		
	Tam (MS)	Major (AK)	Eng (MA)	Lib-II, IV (AK)	Major (AK)
III B.Sc.(Chemistry) II B.Sc.(Chemistry) I B.Sc.(Chemistry)	Major (NH)	Major (TSS)	Major (NH)	Major (TSS)	Major (NH)
	Tam (AST)	Eng (SRE)	←----- Allied Lab (KBW) ----->		
	Tam (MS)	Eng (PD)	←----- Major Lab (NH) ----->		
III B.Sc.(Bioche) I B.Sc.(Bioche)	Major (JM)	Major (PSK)	Major (KK)	Major (KK)	Major (PSK)
	Tam (KU)	Eng (PD)	Allied (TSS)	Major (PSK)	Allied (NH)
III B.Sc.(Botany) II B.Sc.(Botany)	Major (GD)	Elective (GD)	SBEC (GD)	Major (DM)	SBEC (DM)
	←----- Major Lab (DM) ----->			Tam (RST)	Eng (KB)
I B.A. (TAMIL)	Tam (MS)	Eng (PD)	Major (KST)	Major (KU)	Major (UK)

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TIMETABLE – 2021-2022 (ODD SEMESTER)

III - DAY ORDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	Major (KB)	Major (MKE)	Major (JM)	Major (SRE)	Major (MA)
II B.A. (ENG.)	Tamil (AST)	Allied (KP)	SBEC (MA)	Major (PD)	English (KP)
I B.A. (ENG.)	Tamil (KST)	Major (PD)	Allied (MKE)	English (MA)	Major (SRE)
III BCOM – A	Major (RUV)	Allied (EP)	Major (SK)	Place-II, IV(BP)	Major (SK)
III BCOM – B	Major (MRC)	Major (MRC)	Major (RUV)	Place-I, III (BP)	Allied (SBC)
II BCOM – A	Major (SK)	Major (RUV)	Allied (MG)	Allied (BP)	Major (RUV)
II BCOM – B	Major (MNC)	Major (MNC)	Allied (RK)	Major (MRC)	Major (MRC)
I BCOM	Eng (MA)	Major (SK)	Tamil (KU)	Major (MNC)	Major (MNC)
III B.B.A.	Major (SSB)	Allied (KC)	Major (RRB)	Allied (ASC)	Major SSB)
II B.B.A.	Major (RRB)	Major (SSB)	Major (BP)	Major (RRB)	Allied (SSE)
I B.B.A.	Allied (GR)	Tamil (AST)	Major (SSB)	Eng(MA)	Major (RRB)
III BCOM (CA)	Major (TRM)	Major (LR)	Allied (RSK)	Major (SSCA)	Major (TRM)
II BCOM (CA)	Major (SSCA)	Allied (STN)	Major (RMK)	Allied (SSN)	Allied (SSM)
I BCOM (CA)	Eng(KP)	Major (RMK)	Tam(RST)	Major (TRM)	Major (LR)
III B.Sc. (ELEC.)	←----- Major Lab (PR) -----→			Major (PR)	Major (SR)
II B.Sc. (ELEC.)	←----- Major Lab (PR) -----→			Tam (RST)	Eng (KP)
III B.Sc.(CS)	Major (GSK)	Major (SSN)	Major (GSK)	Lib-I, III (MC)	Major (EP)
II B.Sc.(CS)	NMEC (BP)	Eng (KB)	Allied (AK)	Tam (RST)	Major (AS)
I B.Sc.(CS)	←--- Placement Lab (VB) ---→		Allied (GR)	Tam (MS)	Eng (JM)
III B.C.A.	←----- M.Sc. Lab (SBC) -----→			Major (RSK)	Major (MC)
II B.C.A.	NMEC (BP)	Major (AS)	Allied (AK)	Lib-II, IV (VB)	Major (GSK)
I B.C.A.	Major (ASC)	Allied (JSM)	Lib-II, IV (ASC)	Eng (MA)	Tam (KU)
III B.Sc.(Maths)	Major (JSM)	Major (MG)	Lib-I, III (KC)	Major (STN)	Major (GR)
II B.Sc.(Maths)	Allied (SSM)	Tam (MS)	Eng (SRE)	←---- M.B.A. Lab (MG) ----→	
I B.Sc.(Maths)	Major (RK)	Allied (KBW)	Eng (PD)	Allied (AK)	Tamil (KST)
III B.Sc.(Micro)	Major (SN)	Major (TN)	←----- Major Lab (APV/PAK) -----→		
II B.Sc.(Micro)	Tam (UK)	Major (APV)	Lib-I, III (SSM)	Allied (SSM)	Eng (KP)
I B.Sc.(Micro)	Major (TN)	Allied (PSK)	Lib-II, IV (APV)	Eng (KB)	Tam (MS)
III B.Sc.(BT)	Major (KV)	Major (RRW)	←----- Major Lab (RRW) -----→		
II B.Sc.(BT)	Tsm (RST)	Allied (SSM)	Eng (SRE)	Allied (SSM)	Major (PV)
I B.Sc.(BT)	Tam (KST)	Allied (PSK)	Major (ML)	Eng (KB)	YOGA (KVK)
III B.Sc.(Physics)	←----- Major Lab (PR) -----→			Major (SR)	Major (KBW)
II B.Sc.(Physics)	Allied (PR)	Tam (MS)	Allied (AK)	Major (KBW)	Eng (KP)
I B.Sc.(Physics)	Tam (MS)	Allied (JSM)	Major (KBW)	Eng (MA)	Major (PR)
III B.Sc.(Chemistry)	Major (NH)	Major (TSS)	←----- Physical Lab (NH) -----→		
II B.Sc.(Chemistry)	Tam (AST)	Major (NH)	Eng (SRE)	Major (TSS)	Allied (AK)
I B.Sc.(Chemistry)	Tam (MS)	Allied (JSM/DM)	Eng (PD)	Lib-II, IV (NH)	Major (TSS)
III B.Sc.(Bioche)	←----- Major Lab (JM) -----→				
I B.Sc.(Bioche)	Allied (NH))	Tam (KU)	Eng (PD)	Lib-II, IV (KK)	YOGA (JM)
III B.Sc.(Botany)	Major (DM)	Major (GD)	SBEC (DM)	Major (GD)	Major (DM)
II B.Sc.(Botany)	Tam (RST)	Major (DM)	Allied (GD)	SBEC (DM)	Eng (KP)
I B.A. (TAMIL)	Tam (KST)	Major (KU)	Eng (PD)	Major (AST)	Major (UK)

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IV - DAY ORDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	Major (JM)	Major (SRE)	Major (MKE)	Major (KB)	Major (MA)
II B.A. (ENG.)	Allied (KP)	Tam (AST)	Eng (KP)	Major (PD)	NMEC (BP)
I B.A. (ENG.)	Major (PD)	Eng (MA)	Tam (MS)	Major (SRE)	Allied (MKE)
III BCOM – A	Major (RUV)	Major (MNC)	Major (RUV)	Allied (EP)	Major (MRC)
III BCOM – B	Allied (SBC)	Major (MRC)	Major (MNC)	Major (MRC)	Major (SK)
II BCOM – A	Major (MRC)	Major (RUV)	Allied (MG)	Major (SK)	Allied (BP)
II BCOM – B	Major (SK)	Allied (BP)	Allied (RK)	←----Placement Lab (RUV) --→	
I BCOM	Tam (KU)	Major (SK)	Eng (MA)	Major (MNC)	Major (MNC)
III B.B.A.	Major (RRB)	Allied (ASC)	Major (BP)	Major (SSB)	Allied (KC)
II B.B.A.	Major (SSB)	Major (RRB)	Major (RRB)	Allied (SSE)	Major (SSB)
I B.B.A.	Allied (GR)	Eng (MA)	Major (SSB)	Major (RRB)	Tam (AST)
III BCOM (CA)	Major (TRM)	Major (SSCA)	Major (SSCA)	Allied (RSK)	Major (LR)
II BCOM (CA)	Major (SSCA)	Major (RMK)	Major (RMK)	Allied (GR)	Allied (SSN)
I BCOM (CA)	Tam(RST)	Eng(KP)	Allied (GSK)	Major (TRM)	Major (RMK)
III B.Sc. (ELEC.)	Major (PR)	Major (SR)	Major (AK)	Major (PR)	Major (KBW)
II B.Sc. (ELEC.)	Major (SR)	Allied (SSN)	Eng (KP)	Tam (KST)	Allied (PB)
III B.Sc.(CS)	←----- Placement Lab (MC) -----→			Place-I, III (BP)	Major (EP)
II B.Sc.(CS)	Allied (AK)	Tam (RST)	Eng (KB)	←---- Allied Lab (SR) -----→	
I B.Sc.(CS)	Tam (MS)	Major (VB)	Major (VB)	Eng (JM)	Allied (GR)
III B.C.A.	Major (RSK)	Major (AS)	Major (SBC)	Place-II, IV (BP)	Major (RSK)
II B.C.A.	Allied (AK)	Major (GSK)	Major (AS)	←----- M.Sc. Lab (PB) ----→	
I B.C.A.	Allied (RK)	Eng (MA)	Allied (JSM)	Tam (AST)	Major (ASC)
III B.Sc.(Maths)	Major (JSM)	Major (STN)	Major (KC)	Major (RK)	Major (MG)
II B.Sc.(Maths)	Eng (SRE)	Major (RK)	Lib-II, IV (SSM)	Tam (KST)	NMEC (MS)
I B.Sc.(Maths)	Tam (KST)	Yoga (MG)	Allied (KBW)	Major (SSM)	Eng (PD)
III B.Sc.(Micro)	Major (APV)	Major (PAK)	Lib-I, III (TN)	Major (TN)	Major (PAK)
II B.Sc.(Micro)	Major (SN)	Allied (SSM)	Eng (KP)	Tam (UK)	Major (TN)
I B.Sc.(Micro)	Eng (KB)	Tam (UK)	←----- Major Lab (SN) -----→		
III B.Sc.(BT)	Major (PV)	Major (KV)	Major (ML)	Lib-I, III (KV)	Major (RRW)
II B.Sc.(BT)	Eng (SRE)	Allied (SSM)	Major (PV)	Tam (RST)	Major (PV)
I B.Sc.(BT)	Eng (KB)	Major (ML)	Tam (MS)	Allied (JM)	Major (ML)
III B.Sc.(Physics)	Major (KBW)	Major (KBW)	Major (AK)	Major (KBW)	Major (PR)
II B.Sc.(Physics)	Allied (AK)	Major (AK)	Eng (KP)	Tam (KST)	Major (AK)
I B.Sc.(Physics)	Allied (RK)	Eng (MA)	Allied (JSM)	Tam (MS)	Yoga (SR)
III B.Sc.(Chemistry)	Major (NH)	Major (TSS)	Lib-I, III (NH)	Major (TSS)	Major (NH)
II B.Sc.(Chemistry)	Eng (SRE)	Tam (AST)	←----- Major Lab (TSS) -----→		
I B.Sc.(Chemistry)	Allied (RK/DM)	Major (NH)	Allied (JSM/DM)	Tam (MS)	Eng (PD)
III B.Sc.(Bioche)	Major (JM)	Major (PSK)	Major (KK)	Lib-I, III (PSK)	Major (JM)
I B.Sc.(Bioche)	Major (PSK)	Major (KK)	Tam (KU)	Allied (NH)	Eng (PD)
III B.Sc.(Botany)	←----- Major Lab (DM) -----→			Major (GD)	Major (GD)
II B.Sc.(Botany)	←--- Allied Zoology (GD) ---→		Eng (KP)	Tam (RST)	Major (DM)
I B.A. (TAMIL)	Major (UK)	Major (KST)	Tam (MS)	Major (KU)	Eng (PD)


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V - DAY ORDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	Major (SRE)	Major (MKE)	Major (JM)	Major (MA)	Major (KB)
II B.A. (ENG.)	Major (PD)	Eng (KP)	SBEC (KB)	Allied (KP)	Tam (AST)
I B.A. (ENG.)	Tam (KST)	Eng (MA)	Major (PD)	Lib-I, III (SRE)	Allied (MKE)
III BCOM – A	Allied (EP)	Major (MNC)	Major (MRC)	Major (RUV)	Major (RUV)
III BCOM – B	Major (RUV)	Major (MRC)	Major (MNC)	Allied (SBC)	Major (SK)
II BCOM – A	Major (MRC)	Major (SK)	Allied (MG)	Major (MNC)	Major (MNC)
II BCOM – B	Major (MNC)	Major (RUV)	Allied (RK)	Major (SK)	Major (MRC)
I BCOM	Major (SK)	Allied (SSE)	Eng (MA)	Tam (KU)	Major (SSE)
III B.B.A.	Allied (ASC)	Major (SSB)	Place-II, IV (BP)	Major (SSB)	Major (BP)
II B.B.A.	Major (BP)	Major (RRB)	Major (SSE)	NMEC (PR)	Major (SSB)
I B.B.A.	Major (SSB)	Eng (MA)	Tam (AST)	Lib-I, III (RRB)	Allied (GR)
III BCOM (CA)	Major (TRM)	Major (LR)	Allied(RSK)	Major (SSCA)	Major (TRM)
II BCOM (CA)	Allied (STN)	Major (RMK)	Lib-I, III (SSCA)	Allied (SSM)	Major (RMK)
I BCOM (CA)	Eng(KP)	Allied (GSK)	Major (RMK)	Major (RMK)	Tam (UK)
III B.Sc. (ELEC.)	Major (PR)	Major (KBW)	Major (PR)	Major (SR)	Major (PR)
II B.Sc. (ELEC.)	Major (SR)	Eng (KP)	Lib-II, IV (PR)	Tam (KST)	Allied (SSN)
III B.Sc.(CS)	Major (SSN)	Major (MC)	Major (EP)	Major (GSK)	SBEC(PB)
II B.Sc.(CS)	Eng (KB)	Tam (RST)	Allied (AK)	NMEC (BP)	Major (SBC)
I B.Sc.(CS)	Tam (MS)	Eng (JM)	Allied (GR)	←---- Placement Lab (VB) --→	
III B.C.A.	Major (RSK)	Major (SBC)	Major (AS)	Major (MC)	SBEC (PB)
II B.C.A.	Major (AS)	Major (VB)	Allied (AK)	NMEC (BP)	Major (AS)
I B.C.A.	Allied (RK)	Eng (MA)	Allied (JSM)	←-----M.Sc. Lab (ASC)-----→	
III B.Sc.(Maths)	Major (MG)	Major (LC)	Major (KC)	Major (RK)	Major (JSM)
II B.Sc.(Maths)	Major (KC)	Allied (SSM)	Eng (SRE)	Tam (KST)	Major (KC)
I B.Sc.(Maths)	Major (SSM)	Yoga (MG)	Allied (KBW)	Tam (UK)	Eng (PD)
III B.Sc.(Micro)	Major (SN)	Major (APV)	Major (PAK)	Major (PAK)	Major (APV)
II B.Sc.(Micro)	Tam (UK)	Eng (KP)	←----- Major Lab (SN/TN) -----→		
I B.Sc.(Micro)	Major (TN)	Allied (PSK)	Tam (MS)	Eng (KB)	Allied (JM)
III B.Sc.(BT)	Major (KVK)	Major (RRW)	←----- Major Lab (ML) -----→		
II B.Sc.(BT)	Tam (RST)	Major (PV)	Eng (SRE)	Lib-I, III (KVK)	Major (RRW)
I B.Sc.(BT)	Tam (KST)	Allied (PSK)	YOGA (PV)	Eng (KB)	Allied (JM)
III B.Sc.(Physics)	Major (SR)	Major (PR)	Major (SR)	Major (KBW)	Major (AK)
II B.Sc.(Physics)	Major (KBW)	Eng (KP)	Lib-II, IV (AK)	Tam (KST)	NMEC (MC)
I B.Sc.(Physics)	Allied (RK)	Eng (MA)	Allied (JSM)	Tam (MS)	Major (KBW)
III B.Sc.(Chemistry)	Major (NH)	Major (TSS)	Place-I, III (BP)	Major (TSS)	Major (NH)
II B.Sc.(Chemistry)	Allied (AK)	Major (NH)	Eng (SRE)	Major (NH)	Tam (AST)
I B.Sc.(Chemistry)	←----- Allied Botany Lab (DM) -----→			Tam (MS)	Eng (PD)
III B.Sc.(Bioche)	Major (JM)	Major (KK)	Major (JM)	Major (PSK)	Major (PSK)
I B.Sc.(Bioche)	Tam (KU)	Eng (MA)	←----- Major Lab (KK) -----→		
III B.Sc.(Botany)	Major (GD)	Major (GD)	Elective (DM)	Major (GD)	Elective (GD)
II B.Sc.(Botany)	Tam (RST)	Eng (KP)	Allied (GD)	Major (DM)	NMEc(GD)
I B.A. (TAMIL)	Tam (KST)	Major (KST)	Major (KU)	Lib-I, III (RST)	Eng (PD)

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VI - DAY ORDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.) II B.A. (ENG.) I B.A. (ENG.)	Major (MA)	Major (KB)	Major (SRE)	Major (MKE)	Major (JM)
	Major (PD)	Eng (KP)	SBEC (MA)	Lib-I, III (KP)	Tam (AST)
	Major (SRE)	Eng (MA)	Allied (MKE)	Major(PD)	Tam (KST)
III BCOM – A III BCOM – B II BCOM – A II BCOM – B I BCOM	Major (MRC)	Major (RUV)	Allied (EP)	Major (RUV)	Major (MRC)
	Major (SK)	Major (MNC)	Allied (SBC)	Major (MRC)	Major (RUV)
	Major (MNC)	Major (MRC)	Major (MNC)	Major (SK)	Allied (MG)
	Major (RUV)	Major (SK)	Major (RUV)	Major (MA)	Allied (RK)
	Allied (SSE)	Allied (SSE)	Lib-I, III (SK)	Eng (KP)	Tam (KU)
III B.B.A. II B.B.A. I B.B.A.	Major (SSB)	Major (BP)	Allied (KC)	Allied (ASC)	Major (RRB)
	Major (RRB)	Major (SSB)	Major (BP)	NMEC (PR)	Allied (SSE)
	Allied (GR)	Eng (MA)	Major (RRB)	Tam (AST)	Major (SSB)
III BCOM (CA) II BCOM (CA) I BCOM (CA)	Major (SSCA)	Major (LR)	Major (SSCA)	Major (LR)	Allied (RSK)
	Allied (SSN)	Major (SSCA)	Major (RMK)	Allied (STN)	Major (RMK)
	Major (RMK)	Tam (UK)	Allied (GSK)	Major (TRM)	Eng(KP)
III B.Sc. (ELEC.) II B.Sc. (ELEC.)	Major (SR)	Major (AK)	Major (PR)	Major (KBW)	Place-II, IV(BP)
	NMEC (AS)	Eng (KP)	Tam (KST)	←--- M.Sc. Lab (SSN) ----→	
III B.Sc.(CS) II B.Sc.(CS) I B.Sc.(CS)	Major (GSK)	Major (MC)	Major (SSN)	←----- Placement Lab(EP) --→	
	Allied (AK)	Tam (RST)	Eng (KB)	Lib-I, III (AS)	Major (SBC)
	Tam (MS)	Yoga (RSK)	Eng (JM)	Allied (GR)	Major (VB)
III B.C.A. II B.C.A. I B.C.A.	Major (AS)	Major (SBC)	Major (MC)	←-----M.Sc. Lab (PB) ----→	
	Allied (AK)	Major (VB)	←----- Allied Lab (AK) -----→		
	Yoga (EP)	Eng (MA)	Tam (KU)	Allied (JSM)	Major (ASC)
III B.Sc.(Maths) II B.Sc.(Maths) I B.Sc.(Maths)	Major (JSM)	Major (KC)	Major (GR)	Major (MG)	Major (STN)
	Allied (SSM)	NMEC (AST)	Tam (KST)	Eng (SRE)	Major (KC)
	Tam (UK)	Eng (PD)	Major (RK)	←----- Allied Lab (AK) ----→	
III B.Sc.(Micro) II B.Sc.(Micro) I B.Sc.(Micro)	Major (SN)	Major (PAK)	Major (TN)	Major (PAK)	Major (APV)
	Major (TN)	Eng (KP)	Allied (SSM)	Tam (UK)	Major (TN)
	Allied (PSK)	Major (SN)	Major (APV)	Eng (KB)	Tam (MS)
III B.Sc.(BT) II B.Sc.(BT) I B.Sc.(BT)	Major (KVK)	Major (RRW)	Major (KV)	Place-I, III (BP)	Major (PV)
	Tam (RST)	Major (PV)	Allied (SSM)	Eng (SRE)	Major (KVK)
	Allied (PSK)	Major (ML)	Allied (BC)	Eng (KB)	Tam (KST)
III B.Sc.(Physics) II B.Sc.(Physics) I B.Sc.(Physics)	Major (KBW)	Major (AK)	Major (AK)	Major (AK)	Place-I, III (BP)
	NMEC (AS)	Eng (KP)	Tam (KST)	←--- Allied Lab (AK) -----→	
	Major (PR)	Eng (MA)	Tam (MS)	Allied (JSM)	Major (KBW)
III B.Sc.(Chemistry) II B.Sc.(Chemistry) I B.Sc.(Chemistry)	Major (NH)	Major (TSS)	Major (NH)	Major (NH)	Major (TSS)
	NMEC(AS)	Major (NH)	Allied (KBW)	Eng (SRE)	Tam (AST)
	Major (TSS)	Eng (PD)	Tam (MS)	Allied (JSM/DM)	Major (NH)
III B.Sc.(Bioche) I B.Sc.(Bioche)	Major (JM)	Major (KK)	Major (PSK)	Major (JM)	Place-II, IV(BP)
	Tam (KU)	Eng (PD)	←----- Allied Lab (NH) -----→		
III B.Sc.(Botany) II B.Sc.(Botany)	←----- Major Lab (DM) -----→			Elective (DM)	Place-I, III (BP)
	Tam (RST)	Eng (KP)	Major (GD)	Lib-I, III (GD)	Major (DM)
I B.A. (TAMIL)	YOGA (AST)	Eng (PD)	Major (UK)	Major (KST)	Tam (KST)


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I - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour
II M.COM. (CS)	MAJOR (NSC)	MAJOR (NSC)	ELEC. (NSC)	←----- PROJECT -----→		
I M.COM. (CS)	MAJOR (SSE)	ELEC. (SSE)	LIBRARY	EDC (BP)	MAJOR (NSC)	
II M.A. (ENGLISH)	MAJOR (SSBE)	MAJOR (JME)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (SD)	
I M.A. (ENGLISH)	MAJOR (SD)	EDC (SSCA)	MAJOR (SSBE)	MAJOR (SD)	MAJOR (SSBE)	
II M.COM.	MAJOR (TS)	MAJOR (RMK)	MAJOR (LR)	MAJOR (LR)	MAJOR (TRM)	
I M.COM.	MAJOR (SM)	MAJOR (TRM)	E.COM. (TG)	ALLIED (RK)	MAJOR (SSCA)	
II M.C.A.	←----- PROJECT AND VIVAVOCE -----==-----→					
I M.C.A.	MAJOR (TG)	MAJOR (PG)	MAJOR (RB)	MAJOR (PG)	MAJOR (JKK)	
II M.Sc. (C.S.)	MAJOR (RB)	MAJOR (JKK)	←----- PROJECT -----→			
I M.Sc. (C.S.)	MAJOR (PG)	MAJOR (TG)	MAJOR (PG)	←----- MAJOR LAB (TG) -----→		
II M.Sc. (BT)	MAJOR (RRW)	MAJOR (PV)	MAJOR (PV)	MAJOR (ML)	MAJOR (ML)	
I M.Sc. (BT)	MAJOR (KV)	MAJOR (KVK)	MAJOR (RRW)	←----- MAJOR (RRW) -----→		
II M.Sc. (APP.MIC)	MAJOR (APV)	MAJOR (PAK)	←----- PROJECT -----→			
I M.Sc. (APP.MIC)	MAJOR (TN)	MAJOR (TRP)	←----- MAJOR LAB (APV) -----→			
II M.Sc. (Biochem.)	PROJECT	MAJOR (JM)	←----- PROJECT -----→			
I M.Sc. (Biochem.)	MAJOR (JM)	MAJOR (PSK)	MAJOR (PSK)	MAJOR (JM)	MAJOR (PSK)	
II M.Sc. (MATHS)	MAJOR (MG)	MAJOR (KC)	MAJOR (SSM)	PROJECT(JSM)	PROJECT (KC)	
I M.Sc. (MATHS)	ELEC. (GR)	EDC (RK)	MAJOR (JSM)	MAJOR (STN)	MAJOR (SSM)	

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II - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour
II M.COM. (CS)	MAJOR (NSC)	LIBRARY	ELEC. (NSC)	←----- PROJECT -----→		
I M.COM. (CS)	LIBRARY	MAJOR (NSC)	EDC (BP)	ELEC. (SSE)	MAJOR (NSC)	
II M.A. (ENGLISH)	MAJOR (SSBE)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (JME)	MAJOR (SSBE)	
I M.A. (ENGLISH)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (SD)	
II M.COM.	MAJOR (RMK)	MAJOR (TS)	MAJOR (LR)	MAJOR (SM)	MAJOR (LR)	
I M.COM.	E.COM. (TG)	ALLIED (RK)	MAJOR (SM)	EDC (TS)	MAJOR (TRM)	
II M.C.A.	←----- PROJECT AND VIVAVOCE -----→					
I M.C.A.	MAJOR (JKK)	MAJOR (PG)	MAJOR (JKK)	←---- MAJOR LAB (TG) -----→		
II M.Sc. (C.S.)	MAJOR (RB)	MAJOR (RB)	←----- PROJECT -----→			
I M.Sc. (C.S.)	MAJOR (TG)	←---- MAJOR LAB (PG) -----→		MAJOR (PG)	MAJOR (RB)	
II M.Sc. (BT)	MAJOR (KV)	MAJOR (ML)	MAJOR (KVK)	MAJOR (AJ)	MAJOR (KVK)	
I M.Sc. (BT)	MAJOR (KVK)	MAJOR (KVK)	←----- MAJOR LAB (RRW) -----→			
II M.Sc. (APP.MIC)	MATHS (MG)	MAJOR (PAK)	←----- PROJECT -----→			
I M.Sc. (APP.MIC)	MAJOR (APV)	MAJOR (SN)	←----- MAJOR LAB (PAK) -----→			
II M.Sc. (Biochem.)	MAJOR (JM)	MAJOR (KK)	MAJOR (PSK)	MAJOR (PSK)	MAJOR (KK)	
I M.Sc. (Biochem.)	←----- MAJOR LAB (JM) -----→					
II M.Sc. (MATHS)	MAJOR (KC)	MAJOR (SSM)	MAJOR (MG)	←----- LAB (JKK) -----→		
I M.Sc. (MATHS)	MAJOR (SSM)	MAJOR (JSM)	MAJOR (STN)	ELEC. (GR)	MAJOR (JSM)	


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III - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour
II M.COM. (CS)	←----- LIBRARY -----→		ELEC. (NSC)	←----- PROJECT -----→		
I M.COM. (CS)	MAJOR (NSC)	MAJOR (NSC)	MAJOR (SSE)	MAJOR (BP)	MAJOR (NSC)	
II M.A. (ENGLISH)	MAJOR (JME)	MAJOR (SSBE)	MAJOR (SD)	MAJOR (SD)	MAJOR (SSBE)	
I M.A. (ENGLISH)	MAJOR (SSBE)	MAJOR (SD)	MAJOR (SSBE)	EDC (SSCA)	MAJOR (SD)	
II M.COM.	MAJOR (TS)	MAJOR (TRM)	MAJOR (SM)	MAJOR (TRM)	MAJOR (RMK)	
I M.COM.	ALLIED (KC)	MAJOR (SM)	MAJOR(SSCA)	EDC (TS)	E.COM. (TG)	
II M.C.A.	←----- PROJECT AND VIVAVOCE -----→					
I M.C.A.	MAJOR (RB)	←----- MAJOR LAB (PG) -----→		MAJOR (TG)	MAJOR (PG)	
II M.Sc. (C.S.)	MAJOR (JKK)	PROJECT	MAJOR (RB)	←----- PROJECT -----→		
I M.Sc. (C.S.)	MAJOR (TG)	MAJOR (RB)	MAJOR (TG)	MAJOR (JKK)	MAJOR (PG)	
II M.Sc. (BT)	MAJOR (RRW)	MAJOR (PV)	MAJOR (AJ)	MAJOR (RRW)	MAJOR (RRW)	
I M.Sc. (BT)	MAJOR (KV)	MAJOR (KVK)	MAJOR (RRW)	←----- MAJOR LAB (PV) -----→		
II M.Sc. (APP.MIC)	MAJOR (APV)	MAJOR (TN)	←----- PROJECT -----→			
I M.Sc. (APP.MIC)	MAJOR (PAK)	MAJOR (SN)	MAJOR (TN)	MAJOR (APV)	MAJOR (SN)	
II M.Sc. (Biochem.)	MAJOR (PSK)	MAJOR (KK)	MAJOR (JM)	MAJOR (KK)	MAJOR (JM)	
I M.Sc. (Biochem.)	MAJOR (KK)	MAJOR (JM)	MAJOR (PSK)	MAJOR (JM)	MAJOR (KK)	
II M.Sc. (MATHS)	MAJOR (SSM)	MAJOR (KC)	MAJOR (MG)	PROJECT(STN)	PROJECT(STN)	
I M.Sc. (MATHS)	MAJOR (STN)	ELEC. (GR)	MAJOR (SSM)	MAJOR (GR)	MAJOR (KC)	

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IV - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour
II M.COM. (CS)	MAJOR (NSC)	LIBRARY	MAJOR (NSC)	←----- PROJECT -----→		
I M.COM. (CS)	MAJOR (SSE)	MAJOR (NSC)	ELEC. (SSE)	MAJOR (BP)	MAJOR (NSC)	
II M.A. (ENGLISH)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (SSBE)	MAJOR (SD)	MAJOR (JME)	
I M.A. (ENGLISH)	MAJOR (SSBE)	EDC (SSCA)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (SD)	
II M.COM.	MAJOR (TS)	MAJOR (LR)	MAJOR(RMK)	MAJOR (LR)	MAJOR (RMK)	
I M.COM.	ALLIED (KC)	MAJOR (SM)	EDC (TS)	MAJOR (TRM)	MAJOR(SSCA)	
II M.C.A.	←----- PROJECT AND VIVAVOCE -----→					
I M.C.A.	MAJOR (PG)	MAJOR (TG)	MAJOR (JKK)	←----- MAJOR LAB (TG) -----→		
II M.Sc. (C.S.)	MAJOR (RB)	MAJOR (JKK)	MAJOR (RB)	←----- PROJECT -----→		
I M.Sc. (C.S.)	MAJOR (JKK)	MAJOR (PG)	MAJOR (TG)	←----- MAJOR LAB (PG) -----→		
II M.Sc. (BT)	MAJOR (RRW)	MAJOR (PV)	MAJOR (KV)	MAJOR (PV)	MAJOR (KVK)	
I M.Sc. (BT)	←----- MAJOR LAB (ML) -----→			MAJOR (KVK)	MAJOR (RRW)	
II M.Sc. (APP.MIC)	MATHS (MG)	MAJOR (SN)	←----- PROJECT -----→			
I M.Sc. (APP.MIC)	MAJOR (TN)	MAJOR (PAK)	←----- MAJOR LAB (PAK) -----→			
II M.Sc. (Biochem.)	MAJOR (PSK)	PROJECT	MAJOR (JM)	MAJOR (JM)	MAJOR (KK)	
I M.Sc. (Biochem.)	←----- MAJOR LAB (PSK) -----→					
II M.Sc. (MATHS)	MAJOR (SSM)	MAJOR (MG)	MAJOR (KC)	←----- LAB (JKK) -----→		
I M.Sc. (MATHS)	ELEC. (GR)	EDC (RK)	MAJOR (JSM)	MAJOR (JSM)	MAJOR (SSM)	


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V - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour
II M.COM. (CS)	LIBRARY	MAJOR (NSC)	ELEC. (NSC)	←----- PROJECT -----→		
I M.COM. (CS)	MAJOR (NSC)	ELEC. (SSE)	LIBRARY	MAJOR (NSC)	MAJOR (NSC)	
II M.A. (ENGLISH)	MAJOR (SSBE)	MAJOR (SD)	MAJOR (JME)	MAJOR (SD)	MAJOR (SSBE)	
I M.A. (ENGLISH)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (SD)	
II M.COM.	MAJOR (SM)	MAJOR (RMK)	MAJOR (TS)	MAJOR (LR)	MAJOR (TS)	
I M.COM.	MAJOR (LR)	MAJOR (SM)	MAJOR (TRM)	MAJOR(SSCA)	ALLIED (KC)	
II M.C.A.	←----- PROJECT AND VIVAVOCE -----→					
I M.C.A.	MAJOR (TG)	MAJOR (JKK)	MAJOR (RB)	MAJOR (JKK)	MAJOR (TG)	
II M.Sc. (C.S.)	←----- PROJECT AND VIVAVOCE -----→					
I M.Sc. (C.S.)	MAJOR (PG)	←--- (TG) MAJOR LAB (PG) -→		MAJOR (RB)	MAJOR (JKK)	
II M.Sc. (BT)	MAJOR (RRW)	MAJOR (KV)	MAJOR (AJ)	MAJOR (PV)	MAJOR (AJ)	
I M.Sc. (BT)	MAJOR (KVK)	MAJOR (PV)	MAJOR (KV)	MAJOR (ML)	MAJOR (PV)	
II M.Sc. (APP.MIC)	MAJOR (TN)	MAJOR (PAK)	←----- PROJECT -----→			
I M.Sc. (APP.MIC)	MAJOR (APV)	MAJOR (SN)	MAJOR (PAK)	MAJOR (SN)	MAJOR (TN)	
II M.Sc. (Biochem.)	MAJOR (PSK)	MAJOR (KK)	PROJECT	MAJOR (JM)	PROJECT	
I M.Sc. (Biochem.)	MAJOR (JM)	MAJOR (PSK)	MAJOR (KK)	MAJOR (KK)	MAJOR (JM)	
II M.Sc. (MATHS)	MAJOR (KC)	MAJOR (MG)	MAJOR (SSM)	PROJECT (KC)	PROJECT(JSM)	
I M.Sc. (MATHS)	AOC (MG)	ELEC. (GR)	EDC (RK)	MAJOR (JSM)	MAJOR (STN)	

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VI - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	VI Hour
II M.COM. (CS)	LIBRARY	MAJOR (NSC)	MAJOR (NSC)	←----- PROJECT -----→		
I M.COM. (CS)	LIBRARY	ELEC. (SSE)	MAJOR (BP)	MAJOR (SSE)	MAJOR (NSC)	
II M.A. (ENGLISH)	MAJOR (SD)	MAJOR (SSBE)	MAJOR (SSBE)	MAJOR (JME)	MAJOR (SD)	
I M.A. (ENGLISH)	MAJOR (SSBE)	MAJOR (SD)	EDC (SSCA)	MAJOR (SD)	MAJOR (SSBE)	
II M.COM.	MAJOR (TRM)	MAJOR(SSCA)	MAJOR(RMK)	MAJOR (RMK)	MAJOR (TRM)	
I M.COM.	MAJOR (LR)	MAJOR (SM)	EDC (TS)	E.COM. (TG)	ALLIED (KC)	
II M.C.A.	←----- PROJECT AND VIVAVOCE -----→					
I M.C.A.	MAJOR (PG)	MAJOR (RB)	MAJOR (TG)	←----- MAJOR LAB (JKK) ----→		
II M.Sc. (C.S.)	←----- PROJECT AND VIVAVOCE -----→					
I M.Sc. (C.S.)	MAJOR (JKK)	MAJOR (TG)	MAJOR (PG)	MAJOR (PG)	MAJOR (RB)	
II M.Sc. (BT)	MAJOR (RRW)	MAJOR (PV)	MAJOR (KVK)	MAJOR (ML)	MAJOR (KV)	
I M.Sc. (BT)	MAJOR (PV)	MAJOR (KVK)	MAJOR (RRW)	MAJOR (KV)	MAJOR (PV)	
II M.Sc. (APP.MIC)	MAJOR (PAK)	MAJOR (SN)	←----- PROJECT -----→			
I M.Sc. (APP.MIC)	MAJOR (TN)	MAJOR (TRP)	MAJOR (TN)	MAJOR (SN)	MAJOR (PAK)	
II M.Sc. (Biochem.)	MAJOR (KK)	PROJECT	MAJOR (PSK)	MAJOR (PSK)	MAJOR (KK)	
I M.Sc. (Biochem.)	MAJOR (JM)	MAJOR (JM)	MAJOR (KK)	MAJOR (JM)	MAJOR (PSK)	
II M.Sc. (MATHS)	MAJOR (MG)	MAJOR (SSM)	MAJOR (KC)	←----- MAJOR LAB (JKK) -----→		
I M.Sc. (MATHS)	MAJOR (JSM)	MAJOR (GR)	MAJOR (STN)	AOC (MG)	EDC (RK)	


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I - DAY ORDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	MAJOR (KB)	MAJOR (MKE)	PLACE. (SRE)	LIBRARY	MAJOR (PD)
II B.A. (ENG.)	MAJOR (PD)	ALLIED (KP)	TAMIL (AST)	SBEC (KB)	ENG. (KP)
I B.A. (ENG.)	TAMIL (KST)	MAJOR (SRE)	MAJOR (MA)	ALLIED (MKE)	ENG. (MA)
III BCOM – A	MAJOR (MRC)	MAJOR (PE)	MAJOR (RUV)	MAJOR (MNC)	MAJOR (SK)
III BCOM – B	MAJOR (SK)	MAJOR (RUV)	MAJOR (MRC)	MAJOR (PER)	MAJOR (PE)
II BCOM – A	MAJOR (MNC)	MAJOR (SK)	ALLIED MG)	MAJOR (RUV)	NMEC (RRB)
II BCOM – B	MAJOR (PE)	MAJOR (MNC)	ALLIED (KC)	MAJOR (SK)	MAJOR (RUV)
I BCOM	TAMIL (KU)	ENG. (MA)	MAJOR (SK)	ALLIED (SSE)	EVS (MNC)
III B.B.A.	MAJOR (MP)	MAJOR (BP)	MAJOR (SSB)	←-- PLACEMENT LAB (ASC) →	
II B.B.A.	MAJOR (BP)	MAJOR (RRB)	MAJOR (SSE)	MAJOR (MP)	MAJOR (SSB)
I B.B.A.	MAJOR (RRB)	TAMIL (AST)	MAJOR (MP)	ALLIED (SSM)	ENG. (MA)
III BCOM (CA)	MAJOR (TRM)	MAJOR (LR)	MAJOR (TRM)	MAJOR (SM)	EDP (RMK)
II BCOM (CA)	MAJOR (SSCA)	ALLIED (STN)	COMP. (SSN)	MAJOR (SSCA)	MAJOR (SM)
I BCOM (CA)	MAJOR (RMK)	COMP. (GSK)	TAMIL (UK)	ENG. (KP)	VE (TS)
III B.Sc. (ELEC.)	←----- MAJOR LAB (AK) -----→			MAJOR (SR)	MAJOR (PR)
II B.Sc. (ELEC.)	MAJOR (SR)	NMEC (AS)	ALLIED (MC)	TAMIL (KST)	ENG. (KP)
III B.Sc.(CS)	←----- PLACEMENT LAB (EP) -----→			MAJOR (GSK)	MAJOR (EP)
II B.Sc.(CS)	MAJOR (AS)	NMEC (SSB)	ALLIED (AK)	TAMIL (RST)	ENG. (KB)
I B.Sc.(CS)	TAMIL (AST)	MAJOR (VB)	ENG. (JME)	ALLIED (GR)	MAJOR (PB)
III B.C.A.	MAJOR (RSK)	SBEC (SSN)	MAJOR (VB)	MAJOR (RSK)	MAJOR (SBC)
II B.C.A.	MAJOR (GSK)	NMEC (SSB)	ALLIED (AK)	MAJOR (VB)	MAJOR (AS)
I B.C.A.	TAMIL (AST)	MAJOR (ASC)	MAJOR (RSK)	ALLIED (GR)	ENG. (MA)
III B.Sc.(Maths)	MAJOR (KC)	MAJOR (JSM)	MAJOR (GR)	←----- MBA LAB (MG)	
II B.Sc.(Maths)	ENG. (SRE)	ALLIED (SSM)	SBEC (RK)	TAMIL (KST)	MAJOR (GR)
I B.Sc.(Maths)	TAMIL (KST)	ENG. (PD)	MAJOR (STN)	ALLIED (KBW)	EVS (RK)
III B.Sc.(Micro)	MAJOR (PAK)	MAJOR (TN)	MAJOR (TRP)	MAJOR (PAK)	MAJOR (TN)
II B.Sc.(Micro)	←----- M.Sc.(C.S.) LAB (SBC) -----→			TAMIL (UK)	ENG. (KP)
I B.Sc.(Micro)	TAMIL (RST)	ENG. (KB)	←----- ALLIED LAB (KK) -----→		
III B.Sc.(BT)	MAJOR (ML)	MAJOR (RRW)	MAJOR (KVK)	MAJOR (KV)	MAJOR (KVK)
II B.Sc.(BT)	ENG. (SRE)	TAMIL (RST)	←----- MAJOR (AJ) -----→		
I B.Sc.(BT)	TAMIL (RST)	ENG. (KB)	←----- ALLIED LAB (KK) -----→		
III B.Sc.(Physics)	←----- MAJOR LAB (AK) -----→			MAJOR (PR)	MAJOR (SR)
II B.Sc.(Physics)	MAJOR (KBW)	NMEC (AS)	ALLIED (AK)	TAMIL (KST)	ENG. (KP)
I B.Sc.(Physics)	←----- MAJOR LAB (AK) -----→			ENG. (MA)	TAMIL (KU)
III B.Sc.(Chemistry)	←----- ORGANIC AND GRAVIMETRIC (TSS, MP) -----→				
II B.Sc.(Chemistry)	ENG. (SRE)	NMEC (AS)	TAMIL (AST)	ALLIED AK)	MAJOR (MP)
I B.Sc.(Chemistry)	MAJOR (MP)	ENG. (PD)	MAJOR (TSS)	ALLIED(GR/DM)	TAMIL (KU)
III B.Sc.(Bioche)	MAJOR (KK)	MAJOR (KK)	MAJOR (JM)	MAJOR (PSK)	MAJOR (JM)
I B.Sc.(Bioche)	MAJOR (PSK)	ENG. (PD)	P.ENG. (KK)	ALLIED (NH)	TAMIL (KU)
III B.Sc.(Botany)	ELECTIVE (GD)	MAJOR (DM)	MAJOR (DM)	MAJOR (GD)	MAJOR (DM)
II B.Sc.(Botany)	MAJOR (DM)	TAMIL (RST)	ALLI. ZOO (GD)	SBEC (DM)	ENG. (KP)
I B.A. (TAMIL)	TAMIL (KST)	ENG. (PD)	MAJOR (KST)	MAJOR (KU)	MAJOR (UK)


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CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	MAJOR (JM)	MAJOR (MKE)	MAJOR (PD)	MAJOR (KB)	MAJOR (SRE)
II B.A. (ENG.)	TAMIL (AST)	ENG. (KP)	NMEC (MP)	ALLIED (KP)	MAJOR (PD)
I B.A. (ENG.)	MAJOR (SRE)	TAMIL (KST)	ENG. (MA)	MAJOR (MA)	ALLIED (MKE)
III BCOM – A	MAJOR (RUV)	MAJOR (MRC)	MAJOR (MNC)	MAJOR (PE)	MAJOR (SK)
III BCOM – B	MAJOR (MRC)	MAJOR (SK)	MAJOR (RUV)	MAJOR (RUV)	MAJOR (MNC)
II BCOM – A	←- PLACEMENT LAB (MNC) ->		MAJOR (SK)	ALLIED (MG)	MAJOR (PE)
II BCOM – B	MAJOR (SK)	MAJOR (PE)	MAJOR (PE)	ALLIED (KC)	NMEC (RRB)
I BCOM	TAMIL (KU)	MAJOR (RUV)	ALLIED (SSE)	EVS (MNC)	ENG. (MA)
III B.B.A.	MAJOR (BP)	MAJOR (SSB)	COMP. (ASC)	MAJOR (RRB)	MAJOR (MP)
II B.B.A.	MAJOR (SSE)	MAJOR (MP)	MAJOR (BP)	MAJOR (SSB)	NMEC (PR)
I B.B.A.	MAJOR (SSB)	MAJOR (RRB)	ENG. (MA)	ALLIED (SSM)	TAMIL (AST)
III BCOM (CA)	MAJOR (SSCA)	MAJOR (TRM)	EDP (RMK)	MAJOR (SSCA)	MAJOR (TS)
II BCOM (CA)	ALLIED (STN)	COMP. (SSN)	MAJOR (SSCA)	COMP. (SSN)	MAJOR (RMK)
I BCOM (CA)	ENG. (KP)	TAMIL (UK)	MAJOR (TS)	COMP. (VB)	MAJOR (SM)
III B.Sc. (ELEC.)	MAJOR (PR)	MAJOR (SR)	←----- PROJECT LAB (KBW) ----->		
II B.Sc. (ELEC.)	TAMIL (KST)	ENG. (KP)	←----- MAJOR LAB (KBW) ----->		
III B.Sc.(CS)	MAJOR (ASC)	MAJOR (MC)	MAJOR (GSK)	MAJOR (EP)	MAJOR (MC)
II B.Sc.(CS)	TAMIL (RST)	ENG. (KB)	←----- PLACEMENT LAB (AS) ----->		
I B.Sc.(CS)	ALLIED (RK)	ALLIED (GR)	MAJOR (VB)	TAMIL (AST)	ENG. (JME)
III B.C.A.	←----- M.Sc. LAB (RSK) ----->		MAJOR (SBC)	MAJOR (SSN)	
II B.C.A.	MAJOR (AS)	MAJOR (GSK)	MAJOR (VB)	←----- M.Sc. LAB (GSK)----->	
I B.C.A.	ALLIED (RK)	ALLIED (GR)	ENG. (MA)	TAMIL (AST)	MAJOR (ASC)
III B.Sc.(Maths)	MAJOR (JSM)	MAJOR (KC)	MAJOR (GR)	MAJOR (STN)	MAJOR (RK)
II B.Sc.(Maths)	TAMIL (KST)	ENG. (SRE)	ALLIED (SSM)	MAJOR (JSM)	NMEC (RST)
I B.Sc.(Maths)	P.ENG. (MG)	MAJOR (STN)	ALLIED (AK)	ENG. (PD)	TAMIL (KST)
III B.Sc.(Micro)	MAJOR (TN)	MAJOR (TRP)	MAJOR (APV)	MAJOR (SN)	MAJOR (TRP)
II B.Sc.(Micro)	COMP. (SBC)	ENG. (KP)	TAMIL (UK)	MAJOR (TRP)	MAJOR (TN)
I B.Sc.(Micro)	ENG. (KB)	TAMIL (RST)	←----- MAJOR LAB (SN/TN) ----->		
III B.Sc.(BT)	MAJOR (AJ)	MAJOR (RRW)	MAJOR (KV)	MAJOR (KVK)	MAJOR (AJ)
II B.Sc.(BT)	AL. COMP.(EP)	ENG. (SRE)	MAJOR (AJ)	MAJOR (KV)	AL. COMP.(RSK)
I B.Sc.(BT)	ENG. (KB)	TAMIL (RST)	←----- MAJOR LAB (ML) ----->		
III B.Sc.(Physics)	MAJOR (AK)	MAJOR (KBW)	MAJOR (PR)	MAJOR (AK)	MAJOR (SR)
II B.Sc.(Physics)	TAMIL (KST)	ENG. (KP)	←----- MAJOR LAB (KBW) ----->		
I B.Sc.(Physics)	ALLIED (RK)	ALLIED (GR)	ENG. (MA)	MAJOR (PR)	TAMIL (KU)
III B.Sc.(Chemistry)	MAJOR (NH)	MAJOR (TSS)	MAJOR (MP)	MAJOR (NH)	MAJOR (TSS)
II B.Sc.(Chemistry)	TAMIL (AST)	ENG. (SRE)	←----- ALLIED PHYSICS LAB (KBW) ----->		
I B.Sc.(Chemistry)	←ALLIED BOTANY(DM)/MATHS (RK/GR) LAB →			ENG. (PD)	TAMIL (KU)
III B.Sc.(Bioche)	MAJOR (KK)	MINI. PRO.(JM)	MAJOR (KK)	MAJOR (KK)	MAJOR (PSK)
I B.Sc.(Bioche)	EVS (PSK)	MAJOR (PSK)	ALLIED (NH)	ENG. (PD)	TAMIL (KU)
III B.Sc.(Botany)	MAJOR (DM)	MAJOR (GD)	ELECTIVE (GD)	MAJOR (DM)	MAJOR (DM)
II B.Sc.(Botany)	NMEC (GD)	ENG. (KP)	MAJOR (DM)	TAMIL (RST)	ALLIED (GD)
I B.A. (TAMIL)	MAJOR (UK)	MAJOR (KU)	MAJOR (KST)	ENG. (PD)	TAMIL (KST)


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III - DAY ORDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	MAJOR (KB)	MAJOR (MKE)	MAJOR (JME)	MAJOR (SRE)	MAJOR (PD)
II B.A. (ENG.)	TAMIL (AST)	ALLIED (KP)	SBEC (MA)	MAJOR (PD)	ENG. (KP)
I B.A. (ENG.)	TAMIL (KST)	MAJOR (MA)	ALLIED (MKE)	ENG. (MA)	MAJOR (SRE)
III BCOM – A	MAJOR (MNC)	MAJOR (RUV)	MAJOR (MRC)	MAJOR (SK)	MAJOR (MNC)
III BCOM – B	MAJOR (MRC)	MAJOR (MNC)	MAJOR (SK)	MAJOR (RUV)	MAJOR (PE)
II BCOM – A	MAJOR (SK)	MAJOR (PE)	MAJOR (MNC)	ALLIED (MG)	MAJOR (RUV)
II BCOM – B	MAJOR (PE)	MAJOR (SK)	MAJOR (RUV)	ALLIED (KC)	NMEC (RRB)
I BCOM	TAMIL (KU)	ALLIED (SSE)	MAJOR (PE)	MAJOR (MNC)	ENG. (MA)
III B.B.A.	MAJOR (BP)	MAJOR (SSB)	MAJOR (MP)	MAJOR (RRB)	MAJOR (MP)
II B.B.A.	MAJOR (SSE)	MAJOR (MP)	MAJOR (RRB)	MAJOR (SSB)	NMEC (PR)
I B.B.A.	MAJOR (RRB)	ALLIED (SSM)	MAJOR (SSB)	ENG. (MA)	TAMIL (AST)
III BCOM (CA)	MAJOR (TRM)	EDP (RMP)	MAJOR (TS)	MAJOR (LR)	MAJOR (TRM)
II BCOM (CA)	COMP. (SSN)	MAJOR (SSCA)	ALLIED (STN)	← - PLACEMENT LAB (SSN) - →	
I BCOM (CA)	ENG. (KP)	MAJOR (TS)	MAJOR (RMK)	MAJOR (SM)	TAMIL (UK)
III B.Sc. (ELEC.)	←----- MAJOR LAB (PR) -----→			MAJOR (AK)	MAJOR (SR)
II B.Sc. (ELEC.)	←----- MAJOR LAB (PR) -----→			TAMIL (KST)	ENG. (KP)
III B.Sc.(CS)	←----- PLACEMENT LAB (MC) -----→			MAJOR (EP)	MAJOR (ASC)
II B.Sc.(CS)	SBEC (SBC)	ENG. (KB)	TAMIL (RST)	ALLIED (PR)	MAJOR (AS)
I B.Sc.(CS)	ALLIED (GR)	MAJOR (EP)	TAMIL (AST)	ENG. (JME)	MAJOR (VB)
III B.C.A.	MAJOR (VB)	MAJOR (RSK)	MAJOR (SSN)	MAJOR (MC)	MAJOR (SBC)
II B.C.A.	←----- M.Sc. LAB (GSK)-----→		MAJOR (AS)	ALLIED (PR)	MAJOR (GSK)
I B.C.A.	ALLIED (GR)	MAJOR (ASC)	TAMIL (AST)	ENG. (MA)	MAJOR (RSK)
III B.Sc.(Maths)	MAJOR (MG)	MAJOR (STN)	MAJOR (RK)	MAJOR (JSM)	MAJOR (GR)
II B.Sc.(Maths)	MAJOR (JSM)	MAJOR (JSM)	ENG. (SRE)	TAMIL (KST)	MAJOR (RK)
I B.Sc.(Maths)	TAMIL (KST)	ALLIED (AK)	ENG. (PD)	MAJOR (RK)	P. ENG. (MG)
III B.Sc.(Micro)	MAJOR (TN)	MAJOR (PAK)	MAJOR (APV)	←----- MAJOR LAB (PAK) -----→	
II B.Sc.(Micro)	MAJOR (TRP)	COMP. (SBC)	TAMIL (UK)	MAJOR (TN)	ENG. (KP)
I B.Sc.(Micro)	ALLIED (JM)	TAMIL (RST)	MAJOR (SN)	ENG. (KB)	MAJOR (TRP)
III B.Sc.(BT)	MAJOR (KVK)	MAJOR (RRW)	←----- MAJOR (KV) -----→		
II B.Sc.(BT)	COMP. (EP)	MAJOR (AJ)	ENG. (SRE)	TAMIL (RST)	MAJOR (AJ)
I B.Sc.(BT)	ALLIED (JM)	TAMIL (RST)	MAJOR (ML)	MAJOR (ML)	MAJOR (ML)
III B.Sc.(Physics)	←----- MAJOR LAB (PR) -----→			MAJOR (KBW)	MAJOR (AK)
II B.Sc.(Physics)	MAJOR (KBW)	MAJOR (KBW)	TAMIL (UK)	ALLIED (PR)	ENG. (KP)
I B.Sc.(Physics)	ALLIED (GR)	TAMIL (KU)	MAJOR (KBW)	ENG. (MA)	EVS. (KBW)
III B.Sc.(Chemistry)	MAJOR (MP)	MAJOR (NH)	←----- PHYSICAL LAB (NH) -----→		
II B.Sc.(Chemistry)	TAMIL (AST)	ALLIED (AK)	ENG. (SRE)	LIBRARY (MP)	MAJOR (TSS)
I B.Sc.(Chemistry)	ALLIED(DM/GR)	TAMIL (KU)	ENG. (PD)	LIBRARY (TSS)	MAJOR (MP)
III B.Sc.(Bioche)	←----- MAJOR LAB (PSK) -----→				
I B.Sc.(Bioche)	ALLIED (TSS)	TAMIL (KU)	ENG. (PD)	P. ENG. (PSK)	MAJOR (PSK)
III B.Sc.(Botany)	ELECTIVE (GD)	MAJOR (GD)	ELECTIVE (GD)	MAJOR (DM)	SBEC (DM)
II B.Sc.(Botany)	←----- MAJOR LAB (DM) -----→			TAMIL (RST)	ENG. (KP)
I B.A. (TAMIL)	TAMIL (KST)	MAJOR (UK)	ENG. (PD)	MAJOR (KU)	EVS. (KST)


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IV - DAY ORDER					
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III B.A. (ENG.)	MAJOR (PD)	MAJOR (SRE)	MAJOR (JME)	MAJOR (KB)	MAJOR (MKE)
II B.A. (ENG.)	ALLIED (KP)	TAMIL (AST)	MAJOR (PD)	MAJOR (KP)	NMEC (MP)
I B.A. (ENG.)	MAJOR (MA)	ALLIED (MKE)	TAMIL (KST)	ENG. (MA)	MATHS(SRE)
III BCOM – A	MAJOR (RUV)	MAJOR (PE)	MAJOR (MNC)	MAJOR (MNC)	MAJOR (MRC)
III BCOM – B	MAJOR (PE)	MAJOR (MRC)	MAJOR (SK)	MAJOR (PER)	MAJOR (SK)
II BCOM – A	MAJOR (MRC)	MAJOR (SK)	MAJOR (RUV)	ALLIED (MG)	MAJOR (PE)
II BCOM – B	←- PLACEMENT LAB (MNC) -→		MAJOR (PE)	ALLIED (KC)	MAJOR (MNC)
I BCOM	MAJOR (SK)	MAJOR (RUV)	ENG. (MA)	TAMIL (KU)	MAJOR (RUV)
III B.B.A.	MAJOR (MP)	MAJOR (SSB)	MAJOR (BP)	COMP. (ASC)	MAJOR (RRB)
II B.B.A.	MAJOR (BP)	MAJOR (RRB)	MAJOR (RRB)	MAJOR (SSB)	MAJOR (SSE)
I B.B.A.	MAJOR (SSB)	ALLIED (SSM)	MAJOR (MP)	ENG. (MA)	TAMIL (AST)
III BCOM (CA)	EDP (RMK)	MAJOR (TRM)	MAJOR (SSCA)	MAJOR (SM)	MAJOR (TS)
II BCOM (CA)	MAJOR (SM)	MAJOR (RMK)	NMEC (GR)	COMP. (SSN)	ALLIED (STN)
I BCOM (CA)	COMP. (GSK)	ENG. (KP)	MAJOR (SM)	MAJOR (TS)	TAMIL (UK)
III B.Sc. (ELEC.)	MAJOR (SR)	LIBRARY (SR)	MAJOR (PR)	MAJOR (PR)	MAJOR (AK)
II B.Sc. (ELEC.)	MAJOR (PR)	MAJOR (SR)	ALLIED (MC)	ENG. (KP)	TAMIL (KST)
III B.Sc.(CS)	SBEC (SSN)	MAJOR (EP)	MAJOR (GSK)	MAJOR (MC)	MAJOR (EP)
II B.Sc.(CS)	TAMIL (RST)	ALLIED (AK)	ENG. (KB)	←----- ELEC. LAB (SR) -----→	
I B.Sc.(CS)	TAMIL (AST)	ENG. (JME)	←----- PLACEMENT LAB (VB) -----→		
III B.C.A.	MAJOR (RSK)	MAJOR (VB)	MAJOR (SBC)	←----- M.Sc. LAB (AS) -----→	
II B.C.A.	MAJOR (PB)	ALLIED (AK)	MAJOR (AS)	MAJOR (GSK)	MAJOR (PB)
I B.C.A.	←----- M.Sc. LAB (ASC) -----→			ENG. (MA)	TAMIL (AST)
III B.Sc.(Maths)	MAJOR (MG)	MAJOR (JSM)	MAJOR (RK)	MAJOR (STN)	MAJOR (KC)
II B.Sc.(Maths)	ENG. (SRE)	MAJOR (GR)	ALLIED (SSM)	MAJOR (RK)	TAMIL (KST)
I B.Sc.(Maths)	MAJOR (RK)	MAJOR (STN)	TAMIL (KST)	ALLIED (KBW)	ENG. (PD)
III B.Sc.(Micro)	MAJOR (PAK)	MAJOR (TRP)	←----- MAJOR LAB (APV) -----→		
II B.Sc.(Micro)	MAJOR (TRP)	COMP. (SBC)	TAMIL (UK)	ENG. (KP)	COMP. (SBC)
I B.Sc.(Micro)	ENG. (KB)	ALLIED (JM)	TAMIL (RST)	MAJOR (TN)	MAJOR (SN)
III B.Sc.(BT)	MAJOR (KV)	MAJOR (KVK)	MAJOR (KVK)	MAJOR (AJ)	MAJOR (AJ)
II B.Sc.(BT)	ENG. (SRE)	MAJOR (AJ)	MAJOR (AJ)	COMP. (RSK)	TAMIL (RST)
I B.Sc.(BT)	ENG. (KB)	ALLIED (JM)	TAMIL (RST)	MAJOR (ML)	EVS (KV)
III B.Sc.(Physics)	MAJOR (PR)	MAJOR (KBW)	MAJOR (AK)	MAJOR (AK)	LIBRARY (SR)
II B.Sc.(Physics)	MAJOR (AK)	ALLIED (AK)	MAJOR (KBW)	ENG. (KP)	TAMIL (KST)
I B.Sc.(Physics)	MAJOR (KBW)	MAJOR (PR)	TAMIL (KU)	ENG. (MA)	ALLIED (JSM)
III B.Sc.(Chemistry)	MAJOR (NH)	MAJOR (MP)	LIBRARY (MP)	MAJOR (NH)	MAJOR (NH)
II B.Sc.(Chemistry)	ENG. (SRE)	TAMIL (AST)	←----- MAJOR LAB (TSS) -----→		
I B.Sc.(Chemistry)	MAJOR (MP)	MAJOR (TSS)	TAMIL (KU)	MAJOR (MP)	ENG. (PD)
III B.Sc.(Bioche)	MAJOR (JM)	MAJOR (KK)	MAJOR (KK)	MAJOR (PSK)	MINI. PRO.(KK)
I B.Sc.(Bioche)	ALLIED (TSS)	ALLIED (NH)	TAMIL (KU)	P. ENG. (KK)	ENG. (PD)
III B.Sc.(Botany)	←----- MAJOR LAB (DM) -----→			ELECTIVE (GD)	MAJOR (DM)
II B.Sc.(Botany)	←----- ALLIED LAB (GD) -----→			ENG. (KP)	TAMIL (RST)
I B.A. (TAMIL)	MAJOR (KU)	MAJOR (KST)	TAMIL (KST)	EVS (UK)	ENG. (PD)


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CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	MAJOR (SRE)	MAJOR (MKE)	MAJOR (PD)	MAJOR (JME)	MAJOR (KB)
II B.A. (ENG.)	ALLIED (KP)	ENG. (KP)	SBEC (KB)	TAMIL (AST)	MAJOR (PD)
I B.A. (ENG.)	TAMIL (KST)	ENG. (MA)	ALLIED (MKE)	MAJOR (SRE)	LIBRARY (MA)
III BCOM – A	MAJOR (RUV)	MAJOR (SK)	MAJOR (MNC)	MAJOR (PE)	MAJOR (MRC)
III BCOM – B	MAJOR (PE)	MAJOR (MRC)	MAJOR (SK)	MAJOR (RUV)	MAJOR (RUV)
II BCOM – A	MAJOR (MNC)	MAJOR (MNC)	ALLIED (MG)	MAJOR (SK)	MAJOR (PE)
II BCOM – B	MAJOR (SK)	MAJOR (SK)	ALLIED (KC)	MAJOR (MNC)	MAJOR (MNC)
I BCOM	ALLIED (SSE)	TAMIL (KU)	ENG. (MA)	MAJOR (MRC)	MAJOR (SK)
III B.B.A.	COMP. (ASC)	MAJOR (BP)	MAJOR (SSB)	MAJOR (MP)	MAJOR (RRB)
II B.B.A.	MAJOR (MP)	MAJOR (SSB)	MAJOR (RRB)	MAJOR (BP)	MAJOR (SSE)
I B.B.A.	MAJOR (RRB)	ENG. (MA)	TAMIL (AST)	MAJOR (SSB)	MAJOR (MP)
III BCOM (CA)	MAJOR (SSCA)	MAJOR (TRM)	EDP (RMK)	MAJOR (TRM)	MAJOR (TS)
II BCOM (CA)	MAJOR (RMK)	MAJOR (SSCA)	NMEC (GR)	ALLIED (STN)	MAJOR (SM)
I BCOM (CA)	← (VB) PLACEMENT LAB - (VB) ----- (GSK) ---->			ENG. (KP)	TAMIL (UK)
III B.Sc. (ELEC.)	MAJOR (PR)	MAJOR (SR)	MAJOR (SR)	←----- PROJECT LAB (SR) ----->	
II B.Sc. (ELEC.)	ALLIED (MC)	ENG. (KP)	TAMIL (KST)	←---- M.Sc.(C.S.) LAB (MC) ---->	
III B.Sc.(CS)	SBEC (SSN)	MAJOR (ASC)	MAJOR (MC)	←-- PLACEMENT LAB (EP) -->	
II B.Sc.(CS)	TAMIL (RST)	ENG. (KB)	MAJOR (AS)	ALLIED (PR)	ALLIED (AK)
I B.Sc.(CS)	TAMIL (AST)	ENG. (JME)	MAJOR (EP)	MAJOR (VB)	EVS (PB)
III B.C.A.	MAJOR (SBC)	MAJOR (MC)	MAJOR (SSN)	MAJOR (AS)	MAJOR (SSN)
II B.C.A.	SBEC (EP)	MAJOR (GSK)	MAJOR (VB)	ALLIED (PR)	ALLIED (AK)
I B.C.A.	TAMIL (AST)	ENG. (MA)	EVS (PB)	MAJOR (ASC)	MAJOR (RSK)
III B.Sc.(Maths)	MAJOR (SSM)	MAJOR (STN)	MAJOR (JSM)	MAJOR (GR)	MAJOR (RK)
II B.Sc.(Maths)	MAJOR (GR)	MAJOR (RK)	TAMIL (KST)	ALLIED (SSM)	ENG. (SRE)
I B.Sc.(Maths)	TAMIL (KST)	EMG. (PD)	MAJOR (STN)	MAJOR (RK)	ALLIED (KBW)
III B.Sc.(Micro)	MAJOR (PAK)	MAJOR (TN)	MAJOR (APV)	MAJOR (PAK)	MAJOR (SN)
II B.Sc.(Micro)	TAMIL (UK)	ENG. (KP)	←----- MAJOR LAB (TRP) ----->		
I B.Sc.(Micro)	MAJOR (TRP)	TAMIL (RST)	MAJOR (TN)	ENG. (KB)	ALLIED (PSK)
III B.Sc.(BT)	MAJOR (AJ)	MAJOR (ML)	←----- MAJOR LAB (KVK) ----->		
II B.Sc.(BT)	←----- M.Sc.(C.S.) LAB (RSK) ----->			TAMIL (RST)	MAJOR (KV)
I B.Sc.(BT)	MAJOR (ML)	TAMIL (RST)	ALLIED (PSK)	ENG. (KB)	ALLIED (PSK)
III B.Sc.(Physics)	MAJOR (AK)	MAJOR (PR)	MAJOR (KBW)	MAJOR (KBW)	MAJOR (SR)
II B.Sc.(Physics)	MAJOR (KBW)	ENG. (KP)	TAMIL (KST)	ALLIED (PR)	ALLIED (AK)
I B.Sc.(Physics)	TAMIL (KU)	ENG. (MA)	MAJOR (AK)	MAJOR (AK)	MAJOR (PR)
III B.Sc.(Chemistry)	MAJOR (MP)	MAJOR (NH)	PLACE. (NH)	MAJOR (TSS)	MAJOR (NH)
II B.Sc.(Chemistry)	MAJOR (TSS)	ALLIED (KBW)	MAJOR (TSS)	TAMIL (AST)	ENG. (SRE)
I B.Sc.(Chemistry)	TAMIL (KU)	ENG. (PD)	←----- MAJOR LAB (MP) ----->		
III B.Sc.(Bioche)	MAJOR (KK)	MAJOR (JM)	MAJOR (JM)	MAJOR (PSK)	MAJOR (KK)
I B.Sc.(Bioche)	TAMIL (KU)	ENG. (PD)	P.ENG. (PSK)	←----- MAJOR LAB (KK) ----->	
III B.Sc.(Botany)	MAJOR (DM)	MAJOR (GD)	MAJOR (GD)	SBEC (DM)	MAJOR (DM)
II B.Sc.(Botany)	NMEC (GD)	ENG. (KP)	MAJOR (DM)	TAMIL (RST)	ALL. ZOO (GD)
I B.A. (TAMIL)	TAMIL (KST)	ENG. (PD)	MAJOR (UK)	MAJOR (KU)	MAJOR (KST)


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III B.A. (ENG.)	MAJOR (JME)	MAJOR (KB)	MAJOR (SRE)	MAJOR (MKE)	MAJOR (PD)
II B.A. (ENG.)	MAJOR (PD)	ENG. (KP)	SBEC (MA)	LIB. (KP)	TAMIL (AST)
I B.A. (ENG.)	MAJOR (SRE)	ENG. (MA)	TAMIL (KST)	MAJOR (MA)	ALLIED (MKE)
III BCOM – A	MAJOR (RUV)	MAJOR (MNC)	MAJOR (MRC)	MAJOR (SK)	MAJOR (MNC)
III BCOM – B	MAJOR (MRC)	MAJOR (SK)	MAJOR (RUV)	MAJOR (PER)	MAJOR (RUV)
II BCOM – A	MAJOR (PE)	ALLIED (MG)	MAJOR (MNC)	NMEC (RRB)	MAJOR (PE)
II BCOM – B	MAJOR (MNC)	ALLIED (KC)	MAJOR (PER)	MAJOR (MNC)	MAJOR (SK)
I BCOM	MAJOR (SK)	MAJOR (RUV)	TAMIL (KU)	MAJOR (RUV)	ENG. (MA)
III B.B.A.	MAJOR (BP)	MAJOR (RRB)	COMP. (ASC)	MAJOR (SSB)	MAJOR (MP)
II B.B.A.	MAJOR (RRB)	MAJOR (MP)	MAJOR (SSB)	MAJOR (BP)	MAJOR (SSE)
I B.B.A.	MAJOR (MP)	ENG. (MA)	TAMIL (AST)	MAJOR (MP)	ALLIED (SSM)
III BCOM (CA)	MAJOR (TS)	MAJOR (LR)	MAJOR (TRM)	MAJOR (SM)	EDP (RMK)
II BCOM (CA)	MAJOR (SSCA)	ALLIED (STN)	←----- PLACEMENT LAB (SSN) -----→		
I BCOM (CA)	TAMIL (UK)	VE (TS)	MAJOR (SM)	COMP. (VB)	ENG. (KP)
III B.Sc. (ELEC.)	MAJOR (PR)	MAJOR (SR)	MAJOR (PR)	MAJOR (KBW)	MAJOR (SR)
II B.Sc. (ELEC.)	TAMIL (RST)	ENG. (KP)	NMEC (AS)	ALLIED (MC)	LIBRARY
III B.Sc.(CS)	MAJOR (ASC)	MAJOR (GSK)	MAJOR (MC)	MAJOR (GSK)	MAJOR (ASC)
II B.Sc.(CS)	NMEC (SSB)	SBEC (SBC)	ENG. (KB)	TAMIL (RST)	MAJOR (AS)
I B.Sc.(CS)	TAMIL (AST)	ENG. (JME)	ALLIED (RK)	ALLIED (GR)	MAJOR (EP)
III B.C.A.	MAJOR (RSK)	MAJOR (VB)	←----- M.Sc. LAB (SBC) -----→		
II B.C.A.	NMEC (SSB)	MAJOR (AS)	←----- ALLIED LAB (AK) -----→		
I B.C.A.	TAMIL (AST)	ENG. (MA)	ALLIED (RK)	ALLIED (GR)	MAJOR (PB)
III B.Sc.(Maths)	MAJOR (GR)	MAJOR (RK)	MAJOR (JSM)	MAJOR (SSM)	MAJOR (STN)
II B.Sc.(Maths)	TAMIL (KST)	NMEC (KU)	ALLIED (SSM)	ENG. (SRE)	MAJOR (GR)
I B.Sc.(Maths)	MAJOR (RK)	ENG. (PD)	TAMIL (KST)	←-- ALLIED PHY. LAB (AK) --→	
III B.Sc.(Micro)	MAJOR (APV)	MAJOR (PAK)	MAJOR (TRP)	MAJOR (APV)	MAJOR (SN)
II B.Sc.(Micro)	MAJOR (SN)	ENG. (KP)	TAMIL (UK)	MAJOR (TRP)	MAJOR (TN)
I B.Sc.(Micro)	MAJOR (TRP)	ALLIED (PSK)	MAJOR (SN)	ENG. (KB)	TAMIL (RST)
III B.Sc.(BT)	MAJOR (AJ)	MAJOR (ML)	MAJOR (AJ)	MAJOR (AJ)	MAJOR (KVK)
II B.Sc.(BT)	TAMIL (RST)	COMP. (EP)	COMP. (RSK)	ENG. (SRE)	MAJOR (AJ)
I B.Sc.(BT)	EVS (KV)	ALLIED (PSK)	MAJOR (ML)	ENG. (KB)	MAJOR (ML)
III B.Sc.(Physics)	MAJOR (KBW)	MAJOR (AK)	MAJOR (KBW)	MAJOR (PR)	MAJOR (PR)
II B.Sc.(Physics)	TAMIL (RST)	ENG. (KP)	NMEC (AS)	←-- ALLIED ELEC. LAB (AK) --→	
I B.Sc.(Physics)	TAMIL (KU)	ENG. (MA)	ALLIED (RK)	ALLIED (GR)	MAJOR (KBW)
III B.Sc.(Chemistry)	MAJOR (MP)	MAJOR (NH)	MAJOR (TSS)	MAJOR (MP)	MAJOR (TSS)
II B.Sc.(Chemistry)	ALLIED (AK)	MAJOR (TSS)	NMEC (AS)	ENG. (SRE)	TAMIL (AST)
I B.Sc.(Chemistry)	TAMIL (KU)	ENG. (PD)	ALLIED(RK/DM)	ALLIED(GR/DM)	MAJOR (MP)
III B.Sc.(Bioche)	MAJOR (PSK)	MAJOR (KK)	MAJOR (JM)	MAJOR (KK)	MAJOR (JM)
I B.Sc.(Bioche)	TAMIL (KU)	ENG. (PD)	←----- ALLIED CHEMISTRY LAB (NH) -----→		
III B.Sc.(Botany)	←----- MAJOR LAB (DM) -----→			SBEC (GD)	SBEC (GD)
II B.Sc.(Botany)	TAMIL (RST)	ENG. (KP)	ZOO (GD)	MAJOR (DM)	SBEC (DM)
I B.A. (TAMIL)	MAJOR (KST)	ENG. (PD)	TAMIL (KST)	MAJOR (UK)	MAJOR (KU)

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DEPARTMENT OF COMPUTER SCIENCE (UG)

**B.Sc.(Computer Science) CLASS TIMETABLE
(2021-2022 ODD SEMESTER)**

I B.Sc.(C.S.)

DAY/ORDER	I	II	III	IV	V
I	YOGA (RSK)	TAMIL (MS)	ENG. (JM)	ALLIED (GR)	MAJOR (VB)
II	MAJOR (VB)	ALLIED (GR)	MAJOR (VB)	TAMIL (MS)	ENG. (JM)
III	←----- Placement lab (VB) -----→		ALLIED (GR)	TAMIL (MS)	ENG. (JM)
IV	TAMIL (MS)	MAJOR (VB)	MAJOR (VB)	ENG. (JM)	ALLIED (GR)
V	TAMIL (MS)	ENG. (JM)	ALLIED (GR)	←----- Placement lab (VB) -----→	
VI	TAMIL (MS)	YOGA (RSK)	ENG. (JM)	ALLIED (GR)	MAJOR (VB)

II B.Sc.(C.S.)

DAY/ORDER	I	II	III	IV	V
I	←----- Placement lab (VB) -----→			TMIL (RST)	ENG. (KB)
II	MAJOR (AS)	MAJOR (SBC)	TAMIL (RST)	MAJOR (SBC)	ENG. (KB)
III	NMEC (SSB)	ENG. (KB)	ELEC. (AK)	TAMIL (RST)	MAJOR (AS)
IV	ELEC. (AK)	TAMIL (RST)	ENG. (KB)	←----- Allied lab (SR) -----→	
V	ENG. (KB)	TAMIL (RST)	ELEC. (PRE)	NMEC (SSB)	MAJOR (SBC)
VI	ELEC. (PRE)	TAMIL (RST)	ENG. (KB)	MAJOR (AS)	MAJOR (SBC)

III B.Sc.(C.S.)

DAY/ORDER	I	II	III	IV	V
I	MAJOR (MC)	MAJOR (EP)	MAJOR (GSK)	MAJOR (SSN)	MAJOR (EP)
II	←----- Placement lab (EP) -----→			MAJOR (SSN)	SBEC (PB)
III	MAJOR (GSK)	MAJOR (SSN)	MAJOR (GSK)	MAJOR (MC)	MAJOR (EP)
IV	←----- Placement lab (MC) -----→			MAJOR (MC)	MAJOR (EP)
V	MAJOR (SSN)	MAJOR (MC)	MAJOR (EP)	MAJOR (GSK)	SBEC (PB)
VI	MAJOR (GSK)	MAJOR (MC)	MAJOR (SSN)	←----- Placement lab (EP) -----→	

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DEPARTMENT OF COMPUTER SCIENCE (UG)

**B.C.A. CLASS TIMETABLE
(2021-2022 ODD SEMESTER)**

I B.C.A.

DAY/ORDER	I	II	III	IV	V
I	TAMIL (KU)	MAJOR (ASC)	YOGA (EP)	TAMIL (AST)	ENG. (MA)
II	←----- M.Sc. Lab (ASC) -----→		ENG. (MA)	TAMIL (AST)	MAJOR (ASC)
III	MAJOR (ASC)	ALLIED (JSM)	MAJOR (ASC)	ENG. (MA)	TAMIL (KU)
IV	ALLIED (RK)	ENG. (MA)	ALLIED (JSM)	TAMIL (AST)	MAJOR (ASC)
V	ALLIED (RK)	ENG. (MA)	ALLIED (JSM)	←----- M.Sc. Lab (ASC) -----→	
VI	YOGA (EP)	ENG. (MA)	TAMIL (KU)	ALLIED (JSM)	MAJOR (ASC)

II B.C.A.

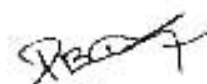
DAY/ORDER	I	II	III	IV	V
I	MAJOR (VB)	MAJOR (GSK)	MAJOR (VB)	ELEC. (AK)	MAJOR (GSK)
II	MAJOR (GSK)	MAJOR (AS)	←----- M.Sc. Lab (GSK) -----→		
III	NMEC (SSB)	MAJOR (AS)	ELEC. (AK)	MAJOR (VB)	MAJOR (GSK)
IV	ELEC. (AK)	MAJOR (GSK)	MAJOR (AS)	←----- M.Sc. Lab (PB) -----→	
V	MAJOR (AS)	MAJOR (VB)	ELEC. (PRE)	NMEC (SSB)	MAJOR (AS)
VI	ELEC. (PRE)	MAJOR (VB)	←----- Allied Lab (AK) -----→		

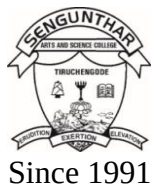
III B.C.A.

DAY/ORDER	I	II	III	IV	V
I	←----- M.Sc. Lab (RSK) -----→			MAJOR (SBC)	MAJOR (MC)
II	MAJOR (SBC)	MAJOR (MC)	MAJOR (RSK)	MAJOR (AS)	SBEC (PB)
III	←----- M.Sc. Lab (SBC) -----→			MAJOR (RSK)	MAJOR (MC)
IV	MAJOR (RSK)	MAJOR (AS)	MAJOR (SBC)	MAJOR (ASC)	MAJOR (RSK)
V	MAJOR (RSK)	MAJOR (SBC)	MAJOR (AS)	MAJOR (MC)	SBEC (PB)
VI	MAJOR (ASC)	MAJOR (SBC)	MAJOR (MC)	←----- M.Sc. Lab (PB) -----→	

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DEPARTMENT OF COMPUTER SCIENCE (UG)

**B.Sc.(Computer Science) CLASS TIMETABLE
 (2021-2022 EVEN SEMESTER)**

I B.Sc.(C.S.)

DAY/ORDER	I	II	III	IV	V
I	TAMIL	MAJOR (VB)	ENG. (JM)	MATHS	MAJOR (PB)
II	MATHS	MATHS	MAJOR (VB)	TAMIL (AST)	ENG. (JM)
III	MATHS	MAJOR (EP)	TAMIL	ENG. (JM)	MAJOR (VB)
IV	TAMIL	ENG.	←----- PLACEMENT LAB (VB) -----→		
V	TAMIL	ENG.	MAJOR (EP)	MAJOR (VB)	MAJOR (PP)
VI	TAMIL	ENG.	MATHS	MATHS	MAJOR (EP)

II B.Sc.(C.S.)

DAY/ORDER	I	II	III	IV	V
I	MAJOR (AS)	ALLIED	ALLIED	TAMIL (RST)	ENG. (KP)
II	TAMIL (RST)	ENG. (JM)	←----- PLACEMENT LAB (AS) -----→		
III	SBEC (SBC)	ENG.	TAMIL	ALLIED	MAJOR (AS)
IV	TAMIL	ALLIED	ENG.	←----- ELEC. LAB -----→	
V	ENG.	MAJOR (AS)	TAMIL	ALLIED	NMEC
VI	NMEC	SBEC (SEC)	ENG.	TAMIL	MAJOR (AS)

III B.Sc.(C.S.)

DAY/ORDER	I	II	III	IV	V
I	←----- PLACEMENT LAB (EP) -----→			MAJOR (GSK)	MAJOR (EP)
II	MAJOR (ASC)	MAJOR (MC)	MAJOR (GSK)	MAJOR (EP)	MAJOR (MC)
III	←----- PLACEMENT LAB (EP) -----→			MAJOR (EP)	MAJOR (ASC)
IV	SBEC (SSN)	MAJOR (EP)	MAJOR (GSK)	SBEC (MC)	MAJOR (EP)
V	SBEC (SSN)	MAJOR (ASC)	MAJOR (MC)	←-- PLACEMENT LAB (EP) --→	
VI	MAJOR (ASC)	MAJOR (GSK)	MAJOR (MC)	MAJOR (GSK)	MAJOR (ASC)

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DEPARTMENT OF COMPUTER SCIENCE (UG)

**B.C.A. CLASS TIMETABLE
(2021-2022 EVEN SEMESTER)**

I B.C.A.

DAY/ORDER	I	II	III	IV	V
I	TAMIL	MAJOR (ASC)	MAJOR (RSK)	MATHS	ENG. (JM)
II	MATHS	MATHS	ENG.	TAMIL	MAJOR (ASC)
III	MATHS	MAJOR (ASC)	TAMIL	ENG.	MAJOR (RSK)
IV	←----- M.Sc. LAB (ASC) -----→			ENG.	TAMIL
V	TAMIL	ENG.	EVS (PB)	MAJOR (ASC)	MAJOR (RSK)
VI	TAMIL	ENG.	MATHS	MATHS	MAJOR (PB)

II B.C.A.

DAY/ORDER	I	II	III	IV	V
I	MAJOR (GSK)	ALLIED	ALLIED	MAJOR (VB)	MAJOR (AS)
II	MAJOR (AS)	MAJOR (GSK)	MAJOR (VB)	←----- M.Sc. LAB (GSK)-----→	
III	←----- M.Sc. LAB (GSK)-----→		MAJOR (AS)	ALLIED	MAJOR (GSK)
IV	MAJOR (PB)	ALLIED	MAJOR (AS)	MAJOR (GSK)	MAJOR (PB)
V	SBEC (EP)	MAJOR (GSK)	MAJOR (VP)	ALLIED	NMEC
VI	NMEC	MAJOR (AS)	←----- ELEC. LAB (AK) -----→		

III B.C.A.

DAY/ORDER	I	II	III	IV	V
I	MAJOR (RSK)	SBEC (SSN)	MAJOR (VB)	MAJOR (RSK)	MAJOR (SBC)
II	←----- M.Sc. LAB (RSK) -----→			MAJOR (SBC)	MAJOR (SSN)
III	MAJOR (VB)	MAJOR (RSK)	MAJOR (SSN)	MAJOR (MC)	MAJOR (SBC)
IV	MAJOR (RSK)	MAJOR (VB)	MAJOR (SBC)	←----- M.Sc. LAB (AS) -----→	
V	MAJOR (SBC)	MAJOR (MC)	MAJOR (SSN)	MAJOR (AS)	MAJOR (SSN)
VI	MAJOR (RSK)	MAJOR (VB)	←----- M.Sc. LAB (SBC) -----→		

DEPARTMENT OF COMPUTER SCIENCE (UG)

STAFF INDIVIDUAL TIMETABLE (2021-2022 - ODD SEMESTER)

PB

DAY/ORDER	I	II	III	IV	V
I		II MBA			
II					III BCA & CS
III			II MBA		
IV				← M.Sc. LAB - II BCA & II Ele. →	
V		II MBA			III BCA & CS
VI			II MBA	←---- M.Sc. LAB -- III BCA----→	

RSK

DAY/ORDER	I	II	III	IV	V
I	←----- M.Sc. LAB ---- III BCA -----→ I CS			III B.Com.(CA)	
II		III B.Com.(CA)	III BCA		
III			III B.Com.(CA)	III BCA	
IV	III BCA			III B.Com.(CA)	III BCA
V	III BCA		III B.Com.(CA)		
VI		I CS			III B.Com.(CA)

SBC

DAY/ORDER	I	II	III	IV	V
I	III B.Com.		III B.Com.	III BCA	
II	III BCA	II CS		II CS	
III	←----- M.Sc. LAB ---- III BCA -----→				III B.Com.
IV	III B.Com.		III BCA		
V		III BCA		III B.Com.	II CS
VI		III BCA	III B.Com.		II CS

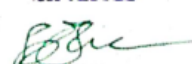
EPR

DAY/ORDER	I	II	III	IV	V
I		III CS	I BCA		III CS
II	←----- PLACEMENT LAB --- III CS -----→				III B.Com.
III		III B.Com.		III B.Com.	III CS
IV				III B.Com.	III CS
V	III B.Com.		III CS		
VI	I BCA		III B.Com.	←-PLACEMENT LAB - III CS-→	

SSN

DAY/ORDER	I	II	III	IV	V
I	II B.Com.(CA)		II Ele.	III CS	
II				III CS	II B.Com.(CA)
III		III CS		II B.Com.(CA)	
IV		II Ele.			II B.Com.(CA)
V	III CS				II Ele.
VI	II B.Com.(CA)		III CS	←----- M.Sc. LAB -- II Ele. -----→	

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ASC

DAY/ORDER	I	II	III	IV	V
I		I BCA	III BBA		
II	←---- M.Sc. LAB -- I BCA ----→				I BCA
III	I BCA		I BCA	III BBA	
IV		III BBA		III BCA	I BCA
V	III BBA			←---- M.Sc. LAB -- I BCA ----→	
VI	III BCA			III BBA	I BCA

MC

DAY/ORDER	I	II	III	IV	V
I	III CS		II Phy.		III BCA
II		III BCA			
III				III CS	III BCA
IV	←----- PLACEMENT LAB --- III CS -----→				III CS
V		III CS		III BCA	II Phy.
VI		III CS	III BCA		

GSK

DAY/ORDER	I	II	III	IV	V
I		II BCA	III CS		II BCA
II	II BCA		←----- M.Sc. LAB --- II BCA -----→		
III	III CS		III CS		II BCA
IV		II BCA	I B.Com.(CA)		
V		I B.Com.(CA)		III CS	
VI	III CS		I B.Com.(CA)		

VB

DAY/ORDER	I	II	III	IV	V
I	II BCA		II BCA		I CS
II	I CS		I CS	I B.Com.(CA)	
III	←- PLACEMENT LAB - I CS --→				II BCA
IV		I CS	ICS		
V		II BCA		←- PLACEMENT LAB -- I CS -→	
VI		II BCA			I CS

AS

DAY/ORDER	I	II	III	IV	V
I	←----- PLACEMENT LAB --- II CS -----→				II Che. Phy., Ele.
II	II CS	II BCA		III BCA	
III		II BCA			II CS
IV		III BCA	II BCA		
V	II BCA		III BCA		II BCA
VI	II Che. Phy., Ele.			II CS	



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DEPARTMENT OF COMPUTER SCIENCE (UG)

STAFF INDIVIDUAL TIMETABLE (2021-2022 - EVEN SEMESTER)

PB

DAY/ORDER	I	II	III	IV	V
I					I CS
II					
III	←----- I MBA LAB -----→				
IV	II BCA				II BCA
V			I BCA		I CS
VI			←----- I MBA LAB -----→		
					I BCA

RSK

DAY/ORDER	I	II	III	IV	V
I	III BCA		I BCA	III BCA	
II	←----- III BCA LAB -----→				II BIOTECH
III		III BCA			I BCA
IV	III BCA			II BIOTECH	
V	←----- II BIOTECH LAB -----→				I BCA
VI	III BCA		II BIOTECH		

SBC

DAY/ORDER	I	II	III	IV	V
I	←----- II MICRO LAB -----→				III BCA
II	II MICRO			III BCA	
III	II CS	II MICRO			III BCA
IV		II MICRO	III BA		II MICRO
V	III BCA				
VI		II CS	←----- II BCA -----→		

EPR

DAY/ORDER	I	II	III	IV	V
I	←----- III CS LAB -----→				III CS
II	II BIOTECH			III CS	
III	II BIOTECH	I CS		III CS	
IV		III CS			III CS
V	II BCA		I CS	←----- III CS LAB -----→	
VI		II BIOTECH			I CS

SSN

DAY/ORDER	I	II	III	IV	V
I		III BCA	II B.Com.(CA)		
II		II B.Com.(CA)		II B.Com.(CA)	III BCA
III	II B.Com.(CA)		III BCA	←----- II B.Com.(CA) LAB -----→	
IV	III CS			II B.Com.(CA)	
V	III CS		III BCA		III BCA
VI			←----- II B.Com.(CA) LAB -----→		

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ASC

DAY/ORDER	I	II	III	IV	V
I		I BCA		←----- III BBA LAB -----→	
II	III CS		III BBA		I BCA
III		I BCA			III CS
IV	←----- I BCA LAB -----→			III BBA	
V	III BBA	III CS		I BCA	
VI	III CS		III BBA		III CS

GSK

DAY/ORDER	I	II	III	IV	V
I	II BCA	I B.Com.(CA)		III CS	
II		II BCA	III CS	←----- II BCA LAB -----→	
III	←----- II BCA LAB -----→				II BCA
IV	I B.Com.(CA)		III CS	II BCA	
V		II BCA	I B.Com.(CA)		
VI		III CS		III CS	

MC

DAY/ORDER	I	II	III	IV	V
I			II ELEC.		
II		III CS			III CS
III	←----- III CS LAB -----→			III BCA	
IV			II ELEC.	III CS	
V	II ELEC.	III BCA	III CS	←----- II ELEC. LAB -----→	
VI			III CS		

VB

DAY/ORDER	I	II	III	IV	V
I		I CS	III BCA	II BCA	
II			I CS	I B.Com.(CA)	
III	III BCA		II BCA		I CS
IV		III BCA	←----- I CS LAB -----→		
V	← I B.Com.(CA) Placement lab →		II BCA	ICS	
VI		III BCA		I B.Com.(CA)	

AS

DAY/ORDER	I	II	III	IV	V
I	II CS	II Phy., Che., Ele.			II BCA
II	II BCA		←----- II CS LAB -----→		
III			II BCA		II CS
IV			II BCA	←----- III BCA LAB -----→	
V	II Phy., Che., Ele.	II CS		III BCA	

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DEPARTMENT OF COMPUTER SCIENCE
ELECTIVE SELECTION LIST

Academic Year: 2021-2022

Class/Semester: III-B.C.A/V

Elective no. 1

Note: Put (✓) mark your choice

S. No.	Roll No.	Student Name	Elective I			
			E-COMMERCE TECHNOLOGIES	SYSTEM SOFTWARE	COMPUTER GRAPHICS	STUDENT SIGNATURE
1	19B1501	ARUNPRASATH S	✓			S. Arunprasath
2	19B1502	INDIRAJITH B	✓			B. Indirajith
3	19B1503	KARTHI M	✓			M. Karthi
4	19B1504	KARTHIKEYAN S	✓			S. Karthikeyan
5	19B1505	KAVIYARASU M	✓			M. Kaviyarasu



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6	19B1506	MADESH V	✓			V. Madesh
7	19B1507	NAVEENKUMAR R	✓			R. Naveen
8	19B1508	PRAKASH S	✓			S. Prakash
9	19B1509	PRAVEEN R	✓			R. Praveen
10	19B1510	SANJAY KUMAR M	✓			M. Sanjaykumar
11	19B1511	VENKATESH G	✓			G. Venkatesh
12	19B1512	BOOMIKA S	✓			S. Boomila
13	19B1513	HEMA V	✓			V. Hema
14	19B1514	KRISHNASRI S	✓			S. Krishnasri
15	19B1515	RESHMA S	✓			S. Reshma



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16	19B1516	SATHYAPRIYA V	✓		V. Sathyapriya
17	19B1517	SOWMIYA M	✓		M. Sowmiya
18	19B1518	UMAMAHESWARI M	✓		M. Umamaheswari
19	19B1519	YOGAASRI K T	✓		K.T. Yogasri


Signature of Class advisor




HOD



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ELECTIVE-I

PERIYAR UNIVERSITY

BACHELOR OF COMPUTER APPLICATION (B.C.A.)

SEMESTER V

ELECTIVE I - PAPER I - E-COMMERCE TECHNOLOGIES

UNIT I

History of E-commerce and Indian Business Context: E-Commerce – Emergence of the Internet – Emergence of the WWW – Advantages of E-Commerce – Transition to E-Commerce in India – The Internet and India – E-transition Challenges for Indian Corporate. Business Models for E-commerce: Business Model – E-business Models Based on the Relationship of Transaction Parties – E-business Models Based on the Relationship of Transaction Types.

UNIT II

Enabling Technologies of the World Wide Web: World Wide Web – Internet Client-Server Applications – Networks and Internets – Software Agents – Internet Standards and Specifications – ISP. e-Marketing : Traditional Marketing – Identifying Web Presence Goals – Online Marketing – E-advertising – E-branding.

UNIT III

E-Security: Information system Security – Security on the Internet – E-business Risk Management Issues – Information Security Environment in India. Legal and Ethical Issues : Cyberstalking – Privacy is at Risk in the Internet Age – Phishing – Application Fraud – Skimming – Copyright – Internet Gambling – Threats to Children.

UNIT IV

e-Payment Systems: Main Concerns in Internet Banking – Digital Payment Requirements – Digital Token-based e-payment Systems – Classification of New Payment Systems – Properties of Electronic Cash – Cheque Payment Systems on the Internet – Risk and e-Payment Systems – Designing e-payment Systems – Digital Signature – Online Financial Services in India - Online Stock Trading.

UNIT V

Information systems for Mobile Commerce: What is Mobile Commerce? – Wireless Applications – Cellular Network – Wireless Spectrum – Technologies for Mobile Commerce – Wireless Technologies – Different Generations in Wireless Communication – Security Issues Pertaining to Cellular Technology. Portals for E-Business: Portals – Human Resource Management – Various HRIS Modules.

TEXT BOOK

1. P.T.Joseph, S.J., "E-Commerce - An Indian Perspective", 4th Edition, PHI 2012.

REFERENCE BOOK

1. David Whiteley, "E-Commerce Strategy, Technologies and Applications", Tata Mc-Graw-Hill, 2001



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BACHELOR OF COMPUTER APPLICATION (B.C.A.)

SEMESTER V

ELECTIVE I - PAPER II - SYSTEM SOFTWARE

Unit-I

System software and machine architecture – The Simplified Instructional Computer (SIC) - Machine architecture - Data and instruction formats - addressing modes - instruction sets - IO and programming

Unit-II

Basic assembler functions - A simple SIC assembler – Assembler algorithm and data structures - Machine dependent assembler features - Instruction formats and addressing modes – Program relocation - Machine independent assembler features - Literals – Symbol-defining statements – Expressions - One pass assemblers and Multi pass assemblers .

Unit-III

Basic loader functions - Design of an Absolute Loader – A Simple Bootstrap Loader - Machine dependent loader features - Relocation – Program Linking – Algorithm and Data Structures for Linking Loader - Machine-independent loader features - Automatic Library Search – Loader Options - Loader design options - Linkage Editors – Dynamic Linking – Bootstrap Loaders .

Unit-IV

Basic macro processor functions - Macro Definition and Expansion – Macro Processor Algorithm and data structures - Machine-independent macro processor features - Concatenation of Macro Parameters – Generation of Unique Labels – Conditional Macro Expansion – Keyword Macro Parameters-Macro within Macro

Unit-V

Text editors - Overview of the Editing Process - User Interface – Editor Structure - Interactive debugging systems - Debugging functions and capabilities – Relationship with other parts of the system - User-Interface Criteria

TEXT BOOK

1. Leland L. Beck, "System Software – An Introduction to Systems Programming", Pearson Education Asia, 2005

REFERENCE BOOKS

1. D. M. Dhamdhere, "Systems Programming and Operating Systems", Second Revised Edition, TataMcGraw-Hill, 1999.
2. John J. Donovan "Systems Programming", Tata McGraw-Hill Edition, 1972.



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SEMESTER V

ELECTIVE I - PAPER III - COMPUTER GRAPHICS

UNIT - I

Overview of graphics Systems: Video Display Device – Refresh Cathode-Ray tubes Raster – Scan Displays Random – Scan Displays – Color CRT Monitors –Direct view Storage tubes Flat – Panel Displays Three – Dimensional Viewing Devices: Stereoscopic and Virtual – Reality Systems

UNIT - II

Raster – Scan Systems Video Controller – Random – Scan Systems Video Controller – Random-Scan Systems – Input device – Keyboard Mouse – Trackball and Space ball Joysticks – Data Glove – Digitizers- Image Scanners – Touch Panels – Light pens. Voice Systems – Hard-Copy Devices – Line Drawing Algorithms DDA Algorithms – Circle generating Algorithm Properties of Ellipses.

UNIT - III

Two Dimensional Geometric Transformation: Basic Transformations - Translation – Rotation – Scaling – Matrix Representations and Homogeneous Coordinates – Other Transformations Reflections Two Dimensional Viewing : Windows to view point coordinate Transformations – Clipping Operations – Point Clipping – Line Clipping – Curve Clipping – Text Clipping – Exterior Clipping.

UNIT - IV

Three Dimensional Concepts: Three Dimensional Display method – Parallel projection – Depth cueing visible line and surface – Three Dimensional Geometric and modeling Transformations: Translation – Rotation – Scaling – Composite Transformations. Three Dimensional Viewing: Viewing pipeline – Viewing Coordinates – Projections – Parallel Projections – Perspective Projections.

UNIT - V

Visible Surface Detection Methods : Classification Visible Surface Detection Algorithms – Back Face Detection – Depth – Buffer Method – A-Buffer Method – Scan line method – Depth sorting method – BSP tree method – Area Subdivision Method.

TEXT BOOK:

1. Donald Hearn & M.Pauline Baker , "Computer Graphics", 2nd Edition, 1996

REFERENCE BOOK:

1. John F. Hughes, Andries Van Dam, Morgan McGuire, David F. Sklar, James D. Foley, Steven K. Feiner, Kurt Akeley, "Computer Graphics: Principles and Practice" 3rd Edition, Pearson Education, 2014.



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DEPARTMENT OF COMPUTER SCIENCE

ELECTIVE SELECTION LIST

Academic Year: 2021-2022

Class/Semester: III-B..C.A/VI

Elective no. II

Note: Put (✓) mark your choice

S. No.	Roll. No.	Student Name	Elective II			
			SOFTWARE TESTING	PARALLEL PROCESSING	MULTIMEDIA	STUDENT SIGNATURE
1	19B1501	ARUNPRASATH S			✓	S. Arunprasath
2	19B1502	INDIRAJITH B			✓	B. Indirajith
3	19B1503	KARTHI M			✓	M. Karthi
4	19B1504	KARTHIKEYAN S			✓	S. Karthikeyan
5	19B1505	KAVIYARASU M			✓	M. Kaviyaseelan



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7	19B1507	NAVEENKUMAR R			✓	R. Naveen Kumar
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9	19B1509	PRAVEEN R			✓	R. Praveen
10	19B1510	SANJAY KUMAR M			✓	M. Sanjay Kumar
11	19B1511	VENKATESH G			✓	G. Venkatesh
12	19B1512	BOOMIKA S			✓	S. Boomika
13	19B1513	HEMA V			✓	V. Hema
14	19B1514	KRISHNASRI S			✓	S. Krishnasri
15	19B1515	RESHMA S			✓	S. Reshma



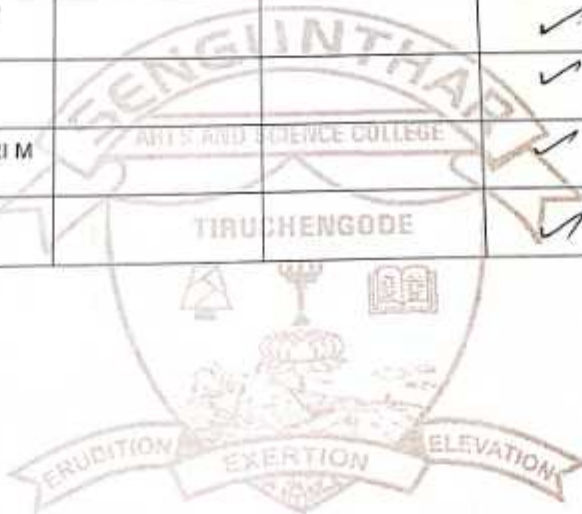
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16	19B1516	SATHYAPRIYA V		✓	V. Sathyapriya
17	19B1517	SOWMIYA M		✓	M. Sowmiya
18	19B1518	UMAMAHESWARI M		✓	M. Umamaheswari
19	19B1519	YOGAASRI K T		✓	K.T. Yogasri


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ELECTIVE-II



PERIYAR UNIVERSITY

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SEMESTER VI

ELECTIVE II -PAPER III - MULTIMEDIA

UNIT I

Multimedia Definition – Use Of Multimedia – Delivering Multimedia – Text: About Fonts and Faces – Using Text in Multimedia – Computers and Text – Font Editing and Design Tools – Hypermedia and Hypertext.

UNIT II

Images: Plan Approach – Organize Tools – Configure Computer Workspace – Making Still Images – Color – Image File Formats. Sound: The Power of Sound – Digital Audio – Midi Audio – Midi vs. Digital Audio – Multimedia System Sounds – Audio File Formats –Vaughan's Law of Multimedia Minimums – Adding Sound to Multimedia Project.

UNIT III

Animation: The Power of Motion – Principles of Animation – Animation by Computer – Making Animations that Work. Video: Using Video – Working with Video and Displays – Digital Video Containers – Obtaining Video Clips – Shooting and Editing Video.

UNIT IV

Making Multimedia: The Stage of Multimedia Project – The Intangible Needs – The Hardware Needs – The Software Needs – An Authoring Systems Needs. Multimedia Production Team.

UNIT V

Planning and Costing: The Process of Making Multimedia – Scheduling – Estimating – RFPs and Bid Proposals. Designing and Producing – Content and Talent: Acquiring Content – Ownership of Content Created for Project – Acquiring Talent

TEXT BOOK

1. Tay Vaughan, "Multimedia: Making It Work", 8th Edition, Osborne/McGraw-Hill, 2001.

REFERENCE BOOK

1. Ralf Steinmetz & Klara Nahrstedt – "Multimedia Computing, Communication & Applications", Pearson Education, 2012.



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SEMESTER VI

ELECTIVE II - PAPER I - SOFTWARE TESTING

UNIT-I

Building a Software Testing Strategy – Software Testing Design Techniques – Software Testing Tools and Selection of Test Automation Products – Software Testing Lifecycle and Software Testing Process.

UNIT-II

Testing Effort Estimation and Test Planning – Software Test Effort Estimation Technique – Pre-Development Testing: Requirements and Design Phase – Best Practices in Program Phase: Unit, System and Integration Testing.

UNIT-III

A Case Study on Acceptance Testing. Implementing an Effective Test Management Process – Building an Effective Test Organization – Performance Issues and Optimization Techniques.

UNIT-IV

Choosing a Load Testing Strategy – Dodging the Bullets – Validating Mission-Critical Server Software for Reliability – Probing the Blind Spot – Testing in Today's Business and Usability.

UNIT-V

Testing of web-based Application – Testing of Embedded Software System used in Aerospace Applications – Testing Applications for Security – Testing Metrics, Best Practices and Benchmarks.

TEXT BOOK

1. Renu Rajani and Pradeep Oak, "Software Testing: Effective Methods, Tools and Techniques" Tata McGraw-Hill. 2007.

REFERENCE BOOKS

1. M.C. Limaye, "Software Testing Principles Techniques and Tools", McGraw-Hill Education India Pvt. Ltd - New Delhi. 2009
2. Erik P.W.M. Veenendaal and Graham Bath, "Improving the Test Process", Rocky Nook, 2013



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SEMESTER VI

ELECTIVE II - PAPER II - PARALLEL PROCESSING

UNIT - I

Parallel Computer Models: The State of Computing - Computer development milestones-Elements of modern computers-Evolution of computer architecture- System attributes to performance. Multiprocessors and Multicomputer: shared-memory and multiprocessors-Distributed-memory multicomputer- A Taxonomy of MIMD computers. Multi-vector and SIMD Computers: Vector super computers-SIMD super computers. PRAM and VLSI Models: Parallel Random-access machines-VLSI complexity model. Architectural Development Tracks: Multiple-processor tracks-Multi-vector and SIMD tracks.

UNIT-II

Program and Network Properties: Conditions of Parallelism - Data and resource dependences-Hardware and software parallelism-The role of compilers. Program Partitioning and Scheduling: Grain sizes and latency-Grain packing and scheduling-Static multiprocessor scheduling- Program Flow Mechanisms: Control flow versus data flow-Demand-driven mechanisms- System Interconnect Architectures: Network properties and routing- Static connection networks- Dynamic connection networks.

UNIT -III

Principles Of Scalable Performance: Performance Metrics and Measures - Parallelism profile in programs-Harmonic mean performance-Efficiency, utilization, and quality-Standard performance measures. Parallel Processing Applications: Massive parallelism for grand challenges-Application models of parallel computers. Speedup Performance Laws: Amdahl's law for a fixed workload. Scalability Analysis and Approaches: Scalability metrics and goals-Evolution of scalable computers.

UNIT -IV

Processors and Memory Hierarchy: Advanced Processor Technology - Design space of processors - Instruction set architectures. Superscalar and Vector Processors: Superscalar processor. Memory Hierarchy Technology: Hierarchical memory technology. Virtual Memory Technology: Virtual memory models- TLB, paging and segmentation.

UNIT -V

Pipelining: Linear Pipeline Processors - Asynchronous and synchronous models-Clocking and timing control-speedup, efficiency and throughput. Nonlinear Pipeline Processors: Reservation and latency analysis-Collision-Free scheduling-Pipeline schedule optimization. Instruction Pipeline Design: Instruction execution phases-Mechanisms for instruction pipelining-Dynamic instruction scheduling-Branch handling techniques. Arithmetic Pipeline Design: Computer arithmetic principles- Static arithmetic pipelines-Multifunctional arithmetic pipelines.



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TEXT BOOK

1. Kai Hwang, "Advanced Computer Architecture", TMGH, India, 2008

REFERENCE BOOK

1. Behrooz Parhami, "Introduction to Parallel Processing – Algorithms and Architectures" Plenum series, 2002.



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DEPARTMENT OF COMPUTER SCIENCE

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Academic Year: 2021-2022

Class/Semester: III-B..C.A/VI

Elective no. III

Note: Put (✓) mark your choice

S. No.	Roll. No.	Student Name	Elective III			
			DATAMINING AND WAREHOSUING	IMAGE PROCESSING	MOBILE COMPUTING	STUDENT SIGNATURE
1	19B1501	ARUNPRASATH S	✓			S. Arunprasath
2	19B1502	INDIRAJITH B	✓			B. Indirajith
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14	19B1514	KRISHNASRI S	✓			S. Krishnasri

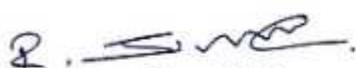


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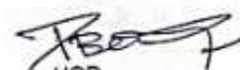
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16	19B1516	SATHYAPRIYA V	✓		V. Sathyapriya
17	19B1517	SOWMIYA M	✓		M. Sowmiya
18	19B1518	UMAMAHESWARI M	✓		M. Umamaheswari
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ELECTIVE-III

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BACHELOR OF COMPUTER APPLICATION (B.C.A.)

SEMESTER VI

ELECTIVE III - PAPER I - DATA MINING AND WAREHOUSING

UNIT - I

Introduction: Data mining application – data mining techniques – data mining case studies- the future of data mining – data mining software - Association rules mining: basics- task and a naïve algorithm- Apriori algorithm – improve the efficient of the Apriori algorithm – mining frequent pattern without candidate generation (FP-growth) – performance evaluation of algorithms.

UNIT - II

Classification : Introduction – decision tree – over fitting and pruning - DT rules- Naive bayes method-estimation predictive accuracy of classification methods - other evaluation criteria for classification method – classification software.

UNIT - III

Cluster analysis: cluster analysis – types of data – computing distances-types of cluster analysis methods - partitioned methods – hierarchical methods – density based methods – dealing with large databases – quality and validity of cluster analysis methods - cluster analysis software.

UNIT - IV

Web data mining: Introduction- web terminology and characteristics- locality and hierarchy in the web-web content mining-web usage mining- web structure mining – web mining software - Search engines: Search engines functionality- search engines architecture – ranking of web pages.

UNIT - V

Data warehousing: Introduction – Operational data sources- data warehousing - Data warehousing design – Guidelines for data warehousing implementation - Data warehousing metadata - Online analytical processing (OLAP): Introduction – OLAP characteristics of OLAP system – Multidimensional view and data cube - Data cube implementation - Data cube operations OLAP implementation guidelines.

TEXTBOOK

1. G K. Gupta, "Introduction to Data mining with case studies", 2nd Edition, PHI Private limited, New Delhi, 2011.

REFERENCE BOOK

1. Arun K Pujari, "Data Mining Techniques", 10th impression, University Press, 2008.



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SEMESTER VI

ELECTIVE III - PAPER II - IMAGE PROCESSING

UNIT - I

Digital Image: Introduction: Motivation and Perspective - Scenes and Images - Applications - Components of Images Processing System. Mathematical Preliminaries: Introduction - Vector Algebra - Linear Operations - Fourier Transform - Discrete Cosine and Sine Transform - Singular Value Decomposition - Probability and Statistics - Fuzzy Sets and Properties - Mathematical Morphology.

UNIT - II

Visual Preliminaries - Digitization: Introduction - Sampling - Quantization - Visual Detail in the Digital Image - Digital Image - Elements of digital Geometry.

UNIT - III

Image Enhancement: Introduction - Contrast Intensification - Smoothing - Image Averaging - Mean Filter - Low-pass Filtering - Image Sharpening.

UNIT - IV

Segmentation: Introduction - Region Extraction - Pixel-based Approach - Multi-Level Thresholding - Local Thresholding - Region-based Approach.

UNIT - V

Feature Extraction: Introduction - Representation - Topological Attributes - Geometrical Attributes - Some Other Properties.

TEXT BOOK

1. B Chanda, D Dutta Majumder, "Digital Image processing and analysis," 2nd Ed., PHI, 2011.

REFERENCE BOOKS

1. Gonzalez R.C & Woods. R.E., "Digital Image Processing," 3rd Edition, Pearson Education, 2009.
2. Maria Petrou and Costas petrou, "Image Processing: The Fundamentals", 2nd Edition, Wiley, 2010.
3. Anil Jain K, Fundamentals of Digital image Processing, Prentice Hall of India, 1989.
4. S.Jayaraman, S.Esakkirajan, and T.Veerakumar, "Digital Image Processing", TMH, 2009.



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SEMESTER VI

ELECTIVE III - PAPER III - MOBILE COMPUTING

UNIT - I

Introduction: Applications - A Simplified Reference Model. Wireless Transmission: Frequencies for radio transmission - Signals - Antennas - Signal Propagation - Multiplexing - Modulation - Spread Spectrum - Cellular System.

UNIT - II

Medium Access Control: Motivation for a Specialized MAC: Hidden and exposed terminals - Near and far terminals - SDMA - FDMA - TDMA: Fixed TDM - Classical Aloha. Reservation TDMA - Multiple Access with Collision Avoidance - Polling - Inhibit Sense Multiple Access. CDMA: Spread Aloha multiple access.

UNIT - III

Telecommunication Systems: GSM: Mobile Services - System Architecture - Radio Interface - Protocols - Localization and Calling - Handover - Security. UMTS and IMT 2000: UMTS releases and standardization - UMTS System Architecture - UMTS Radio Interface - UTRAN - UMTS Handover.

UNIT - IV

Satellite System: History - Applications - Basics - Routing - Localization - Handover. Wireless LAN: IEEE 802.11: System Architecture - Protocol Architecture - Physical Layer - Medium Access Control Layer. Bluetooth: User scenarios - Architecture - Radio Layer - Baseband Layer - Link Manager Protocol.

UNIT - V

Mobile Network Layer: Mobile IP: Goals, Assumption, and Requirements - Entities and Terminology - IP Packet delivery - Agent discovery - Registration. Dynamic Host Configuration Protocol Mobile Transport Layer: Traditional TCP - Congestion Control - Slow Start - Fast Retransmit.

TEXT BOOK

1. Jochen Schiller, "Mobile Communications", 2nd Edition, eighth impression, Pearson Education, 2011.

REFERENCE BOOKS

1. William Stallings, "Wireless Communication and Networks", 2nd Edition, Pearson Education, 2005.
2. Theodore Rappaport, "Wireless Communications: Principles and Practice", Prentice Hall Communications, 1996



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DEPARTMENT OF COMPUTER SCIENCE
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Class/Semester: III-B.SC.CS/V

Elective no. 1

Note: Put (✓) mark your choice

S. No.	Reg. No.	Student Name	Elective I			
			DISCRETE STRUCTURES	MULTIMEDIA	PROBLEM SOLVING TECHNIQUES	STUDENT SIGNATURE
1	19UCS2416	AJITH.S	☐	☐	☒	S. Ajith
2	19UCS2417	ANBARASU.R	☐	☐	☒	P. Anbarasu
3	19UCS2418	AYYANAR.A	☐	☐	☒	A. Ayyanar
4	19UCS2419	BHARATHI.K	☐	☐	☒	K. Bharathi
5	19UCS2420	DINESHKUMAR.V	☐	☐	☒	V. Dineshkumar
6	19UCS2421	EDWIN JAMES.V	☐	☐	☒	V. Edwin James
7	19UCS2422	ELANGO.C	☐	☐	☒	C. Elango



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8	19UCS2423	GOKULSURYA.S	✓			S. Gokul Surya
9	19UCS2424	GOWTHAM.M	✓			M. Gowtham
10	19UCS2425	GOWTHAM.V		✓		V. Gowtham
11	19UCS2426	JEEVANANTHAN.A		✓		A. Jeevanathan
12	19UCS2427	KIRUBAKARAN.S		✓		S. Kirubakaran
13	19UCS2428	MOHANASUNDARAM.V	✓			V. Mohanasundaram
14	19UCS2429	NAGARAJAN.M		✓		M. Nagarajan
15	19UCS2430	NAVEEN.M			✓	M. Naveen
16	19UCS2431	PARTHASARATHI.S.V			✓	S.V. Parthasarathi
17	19UCS2432	PRADEEP.M			✓	M. Pradeep
18	19UCS2433	PRAKASH.S			✓	S. Prakash
19	19UCS2434	PRASANTH.G			✓	G. Prasanth
20	19UCS2435	RAGUL.M			✓	M. Ragul
21	19UCS2436	SABARINATHAN.G			✓	G. Sabarinathan



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26	19UCS2442	VETRIVEL.S			✓	S.Vetrivel
27	19UCS2443	VIGNESH.K			✓	K.Vignesh
28	19UCS2444	VISHNUVARDHAN.K.K		✓		K.K.Vishnuvardhan
29	19UCS2445	ARTHI.G			✓	G.Arthi
30	19UCS2446	DHIVYA.R	✓			R.Dhivya
31	19UCS2447	DIVYABHARATHI.M			✓	M.Divyabhathi
32	19UCS2448	LAVANYA.M			✓	M.Lavanya
33	19UCS2449	NIRMALADEVI.E			✓	E.Nirmaladevi
34	19UCS2450	PRIYADHARSHINI.G		✓		G.Priyadharshini
35	19UCS2451	RITHIKA.R	✓			R.Rithika



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38	19UCS2454	SOWMIYA.A			✓	A.Sowmiya
39	19UCS2455	VISALI.Y			✓	Y.Visali
40	19UCS2456	ARAVINTHSAMY.S			✓	S.Aravithamy
41	19UCS2457	GOKUL.S			✓	S.Gokul
42	19UCS2458	KATHIRAVAN.K			✓	K.Kathiravan
43	19UCS2459	KAVINKUMAR.G			✓	G.Kavinkumar
44	19UCS2460	LOGANATHAN.D			✓	D.Loganathan
45	19UCS2461	MANJUNATHAN.S		✓		S.Manjunathan
46	19UCS2462	SRIDHAR.A		✓		A.Sridhar
47	19UCS2463	VENKADESH.K	✓			K.Venkadesh
48	19UCS2464	AKSHAYA.S			✓	S.Akshaya
49	19UCS2465	DEEPA.S			✓	S.Deepa



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52	19UCS2468	NATHIYA.V			✓	V. Nathiya
53	19UCS2469	PAVITHAR.V			✓	V. Pavithra

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Signature of Class advisor

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ELECTIVE-I

PERIYAR UNIVERSITY

B.Sc. COMPUTER SCIENCE SEMESTER V ELECTIVE I - PAPER I - DISCRETE STRUCTURES

UNIT - I

Sets and Propositions: Definition and representation of sets - basic set operations - Venn diagrams - Set Identities - Principle of Inclusion - Exclusion. Propositions: Introduction - Well formed formulas - truth table - Tautology, Contradiction, Contingency - Propositional Equivalences - Logic-Connectives - Predicates and Quantifiers.

UNIT - II

Functions and Relations: Definition and examples - One-to-one and onto functions - Permutations. Relations: Definition and examples - Binary Relations - Properties - Equivalence and Partial Ordering - representation of relation in matrix, by Digraph - closure operations on relations.

UNIT - III

Algebraic Systems: Definition and examples. Semi groups and monoids: Definitions and examples. Subsemigroups and Submonoids- Homomorphism of Semigroups and Monoids. Groups: Definitions and examples.

UNIT - IV

Graph Theory: Introduction - Definition and Examples - Edges sequence, walks, paths and circuits - Directed graph- Subgraph and operations on the graph - Isomorphic graphs - Connected - Matrix representation of Graphs.

UNIT - V

Trees: Introduction - Properties - Special Classes of Trees-Definition of spanning tree - minimal spanning tree.

TEXT BOOK

1. N. Chandrasekaran, M. Umavathi, "Discrete Mathematics", PHI Publications, 2010.

REFERENCE BOOKS

1. J.P. Tremblay, R. Manohar, "Discrete Mathematical Structures with Applications to Computer Science", Tata McGraw-Hill Publishing Company Limited, 2001.
2. Kenneth H. Rosen, "Discrete Mathematics and its Applications", 7th Edition, Tata McGraw Hill, 2012.



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B Sc COMPUTER SCIENCE

B.Sc. COMPUTER SCIENCE SEMESTER V ELECTIVE I - PAPER II - MULTIMEDIA

UNIT I

Multimedia Definition - Use Of Multimedia - Delivering Multimedia - Text: About Fonts and Faces - Using Text in Multimedia - Computers and Text - Font Editing and Design Tools - Hypermedia and Hypertext.

UNIT II

Images: Plan Approach - Organize Tools - Configure Computer Workspace - Making Still Images - Color - Image File Formats. Sound: The Power of Sound - Digital Audio - Midi Audio - Midi vs. Digital Audio - Multimedia System Sounds - Audio File Formats - Vaughan's Law of Multimedia Minimums - Adding Sound to Multimedia Project.

UNIT III

Animation: The Power of Motion - Principles of Animation - Animation by Computer - Making Animations that Work. Video: Using Video - Working with Video and Displays - Digital Video Containers - Obtaining Video Clips - Shooting and Editing Video.

UNIT IV

Making Multimedia: The Stage of Multimedia Project - The Intangible Needs - The Hardware Needs - The Software Needs - An Authoring Systems Needs. Multimedia Production Team.

UNIT V

Planning and Costing: The Process of Making Multimedia - Scheduling - Estimating - RFPs and Bid Proposals. Designing and Producing - Content and Talent. Acquiring Content - Ownership of Content Created for Project - Acquiring Talent.

TEXT BOOK

1. Tay Vaughan, "Multimedia: Making It Work", 8th Edition, Osborne/McGraw-Hill, 2001.

REFERENCE BOOK

1. Ralf Steinmetz & Klara Nahrstedt - "Multimedia Computing, Communication & Applications", Pearson Education, 2012.



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PERIYAR UNIVERSITY

B.Sc. COMPUTER SCIENCE

SEMESTER V

ELECTIVE I - PAPER III - PROBLEM SOLVING TECHNIQUES

UNIT - I:

Problem Solving: Introduction - The Problem-solving Aspect - Top-down Design-implementation of Algorithms- Program Verification - The Efficiency of Algorithms.

UNIT - II:

Fundamental Algorithms: Exchanging the values of Two Variables - Counting - Summation of a set of Numbers - Factorial Computation-Sine function computation - Generation of the Fibonacci sequence - Reversing the Digits of an Integer - Base Conversion Character to Number Conversion.

UNIT - III:

Factoring Methods: Finding the square Root of a number - The Greatest Common Divisor of Two Integers - Generating Prime Numbers - Generation of Pseudo - random Numbers - Raising a Number to a Large Power.

UNIT - IV:

Array Techniques: Array Order Reversal-Array Counting or Histogramming - Finding the Maximum Number in a Set - Removal of Duplicates from an Ordered Array - Partitioning an Array - Finding the kth Smallest Element.

UNIT - V:

Merging, Sorting and Searching: Two way merge - sorting by selection, insertion, diminishing increment and partitioning -Binary search.

TEXT BOOK

1. R.G.Droney, "How to Solve it by Computer", Pearson Education, India, 2011.

REFERENCE BOOK

1. Seymour Lipschutz, "Essentials Computer Mathematics", 4th Edition, Schaums outlines series, Tata McGrawHill, 2004.



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DEPARTMENT OF COMPUTER SCIENCE

ELECTIVE SELECTION LIST

Academic Year: 2021-2022

Class/Semester: III-B.SC.CS/VI

Elective no. - II

Note: Put (✓) mark your choice

S. No.	Reg. No.	Student Name	Elective II			STUDENT SIGNATURE
			DATAMINING AND WAREHOUSING	UNIFIED MODELING LANGUAGE	WEB TECHNOLOGIES	
1	19UCS2416	AJITH.S	✓			S.Ajith
2	19UCS2417	ANBARASU.R	✓			R.Anbarasu
3	19UCS2418	AYYANAR.A	✓			A.Ayyanar
4	19UCS2419	BHARATHI.K		✓		K.Bharathi
5	19UCS2420	DINESHKUMAR.V			✓	V.Dineshkumar
6	19UCS2421	EDWIN JAMES.V			✓	V.Edwinjames
7	19UCS2422	ELANGO.C		✓		



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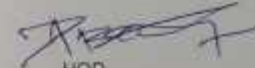
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ELECTIVE-II

B Sc COMPUTER SCIENCE

B.Sc. COMPUTER SCIENCE

SEMESTER VI

ELECTIVE II - PAPER I - DATA MINING AND WAREHOUSING

UNIT - I

Introduction: Data mining application - data mining techniques - data mining case studies- the future of data mining - data mining software - Association rules mining: basics- task and a naive algorithm- Apriori algorithm - improve the efficient of the Apriori algorithm - mining frequent pattern without candidate generation (FP-growth) - performance evaluation of algorithms.

UNIT - II

Classification : Introduction - decision tree - over fitting and pruning - DT rules- Naive bayes method-estimation predictive accuracy of classification methods - other evaluation criteria for classification method - classification software.

UNIT - III

Cluster analysis: cluster analysis - types of data - computing distances-types of cluster analysis methods - partitioned methods - hierarchical methods - density based methods - dealing with large databases - quality and validity of cluster analysis methods - cluster analysis software.

UNIT - IV

Web data mining: Introduction- web terminology and characteristics- locality and hierarchy in the web-web content mining-web usage mining- web structure mining - web mining software - Search engines: Search engines functionality- search engines architecture - ranking of web pages.

UNIT - V

Data warehousing: Introduction - Operational data sources- data warehousing - Data warehousing design - Guidelines for data warehousing implementation - Data warehousing metadata - Online analytical processing (OLAP): Introduction - OLAP characteristics of OLAP system - Multidimensional view and data cube - Data cube implementation - Data cube operations OLAP implementation guidelines.

TEXTBOOK

1. G.K. Gupta, "Introduction to Data mining with case studies", 2nd Edition, PHI Private limited, New Delhi, 2011.

REFERENCE BOOK

1. Arun K Pujari, "Data Mining Techniques", 10th impression, University Press, 2008.



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PERIYAR UNIVERSITY

**B.Sc. COMPUTER SCIENCE
SEMESTER VI**

ELECTIVE II - PAPER II - UNIFIED MODELING LANGUAGE

UNIT - I

Introduction - Role of Analysis and Design in Software Development - Object Orientation - Overview of various OOAD Methodologies - Goals of UML Use Case Modeling: Actors and Use Cases - Use Case Relationships - Writing Use Cases Formality - Choosing the System Boundary - Finding Actors - Finding Use Cases - Use of Use Cases for Validation and Verification - Use case Realization.

UNIT - II

Static Modelling Using Class Diagrams: Classes and Objects - Attributes and Operations - Visibility of Attributes and Operations - Class Scope Attribute - Mapping Class to Java Code - Attributes with Default Values - Association - Role Names - Qualified Association - Association Class - Ternary Association - Recursive Association - Multiple Association between Two Classes - Aggregation - Generalization - Abstract Class - Subclass Partitioning - Generalization Set - Interfaces - Packages and Grouping of Classes into Packages - Parameterized Classes.

UNIT - III

Interaction Diagrams: Introduction to Interaction Diagram - Creating New objects - Combining Fragments - Communication Diagrams.

UNIT - IV

Dynamic Modelling Using State and Activity Diagrams: State Machines - Events - States and Transitions - Formal Syntax for Specifying a State Transition - Substates - Modelling Complex Transitions - The History Indicator - The Junction State - The Synch State - The Submachine Reference and the Stub States - Activity Diagrams - Swimlanes - Dynamic Concurrency - Decomposing an Activity - Activity diagrams for Career Guidance Portal. The unified Process of Software Development: The Unified Process of Software Development - Phases of the Unified Software Development Process - Best Practices in the Unified Process - Workflows of the UP.

UNIT - V

Architectural Modelling: Subsystem - Broker Architecture for Distributed Systems - Model View Controller Architecture - Component Diagrams - Deployment Diagrams. Case Study: Simulation of Cell Phone - Social Networking Site.

TEXT BOOK

1. Mahesh P. Matha, "Object Oriented Analysis and Design Using UML", PHI Learning Private Ltd. New Delhi, 2010.

REFERENCE BOOK

1. Jason T. Roff, "UML - A Beginner's Guide", 1st Edition, Tata McGraw - Hill, 2003.



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B Sc COMPUTER SCIENCE

B.Sc. COMPUTER SCIENCE SEMESTER VI ELECTIVE III - PAPER II - COMPUTER GRAPHICS

UNIT - I

Overview of graphics Systems: Video Display Device - Refresh Cathode-Ray tubes Raster - Scan Displays Random - Scan Displays - Color CRT Monitors -Direct view Storage tubes Flat - Panel Displays Three - Dimensional Viewing Devices. Stereoscopic and Virtual - Reality Systems

UNIT - II

Raster - Scan Systems Video Controller - Random - Scan Systems Video Controller - Random-Scan Systems - Input device - Keyboard Mouse - Trackball and Space ball - Joysticks - Data Glove - Digitizers-Image Scanners - Touch Panels - Light pens. Voice Systems - Hard-Copy Devices - Line Drawing Algorithms DDA Algorithms - Circle generating Algorithm Properties of Ellipses.

UNIT - III

Two Dimensional Geometric Transformation: Basic Transformations - Translation - Rotation - Scaling - Matrix Representations and Homogeneous Coordinates - Other Transformations Reflections Two Dimensional Viewing - Windows to view point coordinate Transformations - Clipping Operations - Point Clipping - Line Clipping - Curve Clipping - Text Clipping - Exterior Clipping.

UNIT - IV

Three Dimensional Concepts: Three Dimensional Display method - Parallel projection - Depth cueing visible line and surface - Three Dimensional Geometric and modeling Transformations: Translation - Rotation - Scaling - Composite Transformations. Three Dimensional Viewing: Viewing pipeline - Viewing Coordinates - Projections - Parallel Projections - Perspective Projections.

UNIT - V

Visible Surface Detection Methods : Classification Visible Surface Detection Algorithms - Back Face Detection - Depth - Buffer Method - A-Buffer Method - Scan line method - Depth sorting method - BSP tree method - Area Subdivision Method.

TEXT BOOK:

1. Donald Hearn & M.Pauline Baker, "Computer Graphics", 2nd Edition, 1996

REFERENCE BOOK:

1. John F. Hughes, Andries Van Dam, Morgan McGuire, David F. Sisk, James D. Foley, Steven K. Feiner, Kurt Akeley, "Computer Graphics Principles and Practice" 3rd Edition, Pearson Education, 2014.



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DEPARTMENT OF COMPUTER SCIENCE
ELECTIVE SELECTION LIST

Academic Year: 2021-2022

Class/Semester: III-B.SC.CS/VI

Elective no. III

Note: Put (✓) mark your choice

S. No.	Reg. No.	Student Name	Elective III			STUDENT SIGNATURE
			MOBILE COMPUTING	COMPUTER GRAPHICS	INTERNETWORKING WITH TCP/IP	
1	19UCS2416	AJITH.S		✓		S. Ajith
2	19UCS2417	ANBARASU.R		✓		R. Anbarasu
3	19UCS2418	AYYANAR.A		✓		A. Ayyanar
4	19UCS2419	BHARATHI.K		✓		K. Bharathi
5	19UCS2420	DINESHKUMAR.V		✓		V. Dineshkumar
6	19UCS2421	EDWIN JAMES.V		✓		V. Edwin James



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17	19UCS2432	PRADEEP.M		✓		M. Pradeep
18	19UCS2433	PRAKASH.S		✓		S. Prakash
19	19UCS2434	PRASANTH.G		✓		G. Prasanth
20	19UCS2435	RAGUL.M		✓		M. Ragul



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39	19UCS2455	VISALI.Y		✓		Y. Visali
40	19UCS2456	ARAVINTHSAMY.S		✓		S. Aravinthsamy
41	19UCS2457	GOKUL.S	✓			S. Gokul
42	19UCS2458	KATHIRAVAN.K			✓	K. Kathiravan
43	19UCS2459	KAVINKUMAR.G			✓	G. Kavinkumar
44	19UCS2460	LOGANATHAN.D	✓			D. Loganathan
45	19UCS2461	MANJUNATHAN.S		✓		S. Manjunathan
46	19UCS2462	SRIDHAR.A		✓		A. Sridhar
47	19UCS2463	VENKADESH.K		✓		K. Venkadesh
48	19UCS2464	AKSHAYA.S		✓		S. Akshaya



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49	19UCS2465	DEEPA.S		✓		S. Deepa
50	19UCS2466	DIVYA.J		✓		J. Divya
51	19UCS2467	JAYAKAVIYA.I		✓		I. Jayakaviya
52	19UCS2468	NATHIYA.V		✓		V. Nathiya
53	19UCS2469	PAVITHAR.V		✓		V. Pavithra

E. Reddy

Signature of Class advisor

[Signature]
HOD



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ELECTIVE-III

PERIYAR UNIVERSITY

B.Sc. COMPUTER SCIENCE SEMESTER VI ELECTIVE III - PAPER I - MOBILE COMPUTING

UNIT - I

Introduction: Applications - A Simplified Reference Model. Wireless Transmission: Frequencies for radio transmission - Signals - Antennas - Signal Propagation - Multiplexing - Modulation - Spread Spectrum - Cellular System.

UNIT - II

Medium Access Control: Motivation for a Specialized MAC- Hidden and exposed terminals - Near and far terminals - SDMA - FDMA - TDMA - Fixed TDM - Classical Aloha - Slotted Aloha - Carrier Sense Multiple Access - Demand assigned Multiple Access - PRMA Packet Reservation Multiple Access - Reservation TDMA - Multiple Access with Collision Avoidance - Polling - Inhibit Sense Multiple Access. CDMA - Spread Aloha multiple access. Comparison of S/T/F/CDMA.

UNIT - III

Telecommunication Systems: GSM - Mobile Services - System Architecture - Radio Interface - Protocols - Localization and Calling - Handover - Security. UMTS and IMT 2000: UMTS releases and standardization - UMTS System Architecture - UMTS Radio Interface -UTRAN - UMTS Handover.

UNIT - IV

Satellite System: History - Applications - Basics - Routing- Localization - Handover. Wireless LAN: IEEE 802.11- System Architecture - Protocol Architecture - Physical Layer - Medium Access Control Layer. Bluetooth: User scenarios - Architecture - Radio Layer - Baseband Layer - Link Manager Protocol.

UNIT - V

Mobile Network Layer: Mobile IP - Goals, Assumption, and Requirements - Entities and Terminology - IP Packet delivery - Agent discovery - Registration. Dynamic Host Configuration Protocol - Mobile Transport Layer: Traditional TCP - Congestion Control - Slow Start - Fast Retransmit.

TEXT BOOK

1. Jochen Schiller, "Mobile Communications", 2nd Edition, eighth impression, Pearson Education, 2011.

REFERENCE BOOKS

1. William Stallings, "Wireless Communication and Networks", 2nd Edition, Pearson Education, 2005.
2. Theodore Rappaport, "Wireless Communications: Principles and Practice", Prentice Hall Communications, 1996.



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B Sc COMPUTER SCIENCE

B.Sc. COMPUTER SCIENCE SEMESTER VI ELECTIVE III - PAPER II - COMPUTER GRAPHICS

UNIT - I

Overview of graphics Systems: Video Display Device - Refresh Cathode-Ray tubes Raster - Scan Displays Random - Scan Displays - Color CRT Monitors -Direct view Storage tubes Flat - Panel Displays Three - Dimensional Viewing Devices: Stereoscopic and Virtual - Reality Systems.

UNIT - II

Raster - Scan Systems Video Controller - Random - Scan Systems Video Controller - Random-Scan Systems - Input device - Keyboard Mouse - Trackball and Space ball - Joysticks - Data Glove - Digitizers-Image Scanners - Touch Panels - Light pens- Voice Systems - Hard-Copy Devices - Line Drawing Algorithms DDA Algorithms - Circle generating Algorithm Properties of Ellipses.

UNIT - III

Two Dimensional Geometric Transformation: Basic Transformations - Translation - Rotation - Scaling - Matrix Representations and Homogeneous Coordinates - Other Transformations Reflections Two Dimensional Viewing - Windows to view point coordinate Transformations - Clipping Operations - Point Clipping - Line Clipping - Curve Clipping - Text Clipping - Exterior Clipping.

UNIT - IV

Three Dimensional Concepts: Three Dimensional Display method - Parallel projection - Depth cueing visible line and surface - Three Dimensional Geometric and modeling Transformations: Translation - Rotation - Scaling - Composite Transformations Three Dimensional Viewing: Viewing pipeline - Viewing Coordinates - Projections - Parallel Projections - Perspective Projections.

UNIT - V

Visible Surface Detection Methods : Classification Visible Surface Detection Algorithms - Back Face Detection - Depth - Buffer Method - A-Buffer Method - Scan line method - Depth sorting method - BSP tree method - Area Subdivision Method.

TEXT BOOK:

1. Donald Hearn & M.Pauline Baker . "Computer Graphics", 2nd Edition, 1996

REFERENCE BOOK:

1. John f. Hughes, Andries Van Dam, Morgan McGuire, David F. Sklar, James D. Foley, Steven K. Feiner, Kurt Akeley, "Computer Graphics Principles and Practice" 3rd Edition, Pearson Education, 2014



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PERIYAR UNIVERSITY

B.Sc. COMPUTER SCIENCE
SEMESTER VI
ELECTIVE III - PAPER III - INTERNET WORKING WITH TCP / IP

UNIT - I

Introduction and overview - Network Technologies - Internetworking concepts and architectural model - Classful Internet address

UNIT - II

Mapping Internet Address to Physical Addresses - Internet Protocol - Connectionless Datagram Delivery (IPv4) - Forwarding IP Datagrams - Error and Control Message (ICMP).

UNIT - III

User Datagram Protocol (UDP) - Reliable Stream Transport Service (TCP) - Routing Architecture - Cores, Peers and Algorithms.

UNIT - IV

Internet Multicasting - Mobile IP - Private Network Interconnection.

UNIT - V

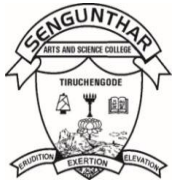
The Domain Name System (DNS) - Electronic Mail - Voice and Video Over IP - Network Management - Ipv6

TEXT BOOK

1. Douglas E Comer, "Internetworking with TCP/IP Principles, Protocols and Architecture", Vol 1 & 2, 5th Edition, PHI, 2006

REFERENCE BOOKS

1. Behrouz A. Forouzan, "TCP/IP protocol suite", 4th Edition, Tata McGraw Hill, 2003.
2. W. Richard Stevens "TCP/IP illustrated" Volume 2, Pearson Education, 2003



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COMPUTER ORGANIZATION AND ARCHITECTURE
I-BCA/I B.Sc (CS)

Paper code: 21UCA03/21UCS03

Section-A

Prepared By: R.Senthil Kumar

Regulation : 2021-22

Answer all the Questions

1. The ALU makes use of _____ to store the intermediate results.
a) Accumulators b) Registers c) Heap d) Stack
2. The circuit used to store one bit of data is known as
a) Register b) Encoder c) Decoder d) Flip Flop
3. A Three input NOR Gate gives logic high output only when
a) One input is high b) one input is low c) two input are low d) all input are high
4. A Flip flop is a binary cell capable of storing information of
a) One bit b) Byte c) Zero bit d) Eight bit
5. The memory unit that communicates directly with the CPU is called the
a) Main memory b) secondary memory c) Shared memory d) auxiliary memory
6. A Combinational logic circuit which sends data coming from a single source to two or more separate Destination is
a) Decoder b) Encoder c) Multiplexer d) Demultiplexer
7. Which of the following register keeps track of the instructions stored in the program stored in memory?
a) Accumulator b) Address Register c) Program Counter d) Index Register
8. The Program Counter is also called as
a) Instruction Pointer b) Data Counter c) Memory pointer d) None of the above

9. Which of the following logical operations is represented by the + sign in Boolean algebra?

- a) inversion b) AND c) OR d) complementation

10. The output of an AND gate with three inputs, A, B, and C, is HIGH when _____.

- a) A = 1, B = 1, C = 0 b) A = 0, B = 0, C = 0 c) A = 1, B = 1, C = 1 d) A = 1, B = 0, C = 1

11. The interface between an analog signal and a digital processor is

- a) D/A converter b) A/D converter c) Modulator d) Demodulator

12. Telegraph signals are examples of

- a) Digital signals b) Analog signals c) Impulse signals d) Pulse train

13. The time required for V_o to make the transition from its high level to its low level is defined as

- a) fall time t_f b) rise time t_r c) both a and b d) none of the above.

14. The buffer is capable of delivering additional current to a load, it is often called a

- a) switch b) Inverter c) buffer amplifier d) none of the above

15. _____ are the applications of flip flop

- a) Registers b) Counters c) storage devices d) all of the above

16. A register is defined as _____

- a) The group of latches for storing one bit of information
b) The group of latches for storing n-bit of information
c) The group of flip-flops suitable for storing one bit of information
d) The group of flip-flops suitable for storing binary information

17. The binary equivalent of the decimal number 10 is _____

- a) 0010 b) 10 c) 1010 d) 010

18. Computer uses which number system to store data and perform calculations

- a) Binary b) octal c) decimal d) Hexadecimal

19. The value of radix in binary number system is _____

- a) 2 b) 8 c) 10 d) 1

20. Convert the binary equivalent 10101 to its decimal equivalent.

- a) 21 b) 12 c) 22 d) 31

Section-B

Answer any Two Questions

11. Write a note on Register with diagram
12. Discuss on Program Counter with example.
13. Write a note on Basic Gates with neat diagram.
14. Discuss on Analog versus Digital signals.
15. Explain with neat diagram for Digital waveforms.
16. Convert the binary number $(100101)_2$ to decimal number.

Section-C

Answer any Three Questions

14. Explain in detail about Digital Computers.
15. Explain in detail about universal Logic gates.
16. Explain about Multiplexer and Demultiplexer with neat diagram.
17. Explain in detail about ALU with neat diagram.

Explain about Digital logic with neat diagram.

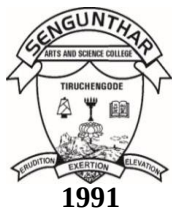
18. Convert the following decimal number to binary number.

- i. $(32)_{10} = ()_2$
- ii. $(64)_{10} = ()_2$
- iii. $(128)_{10} = ()_2$
- iv. $(256)_{10} = ()_2$

19. Convert following

- i. $(6BC)_{16} = ()_2$
- ii. $(6B)_{16} = ()_{10}$
- iii. $(950)_{10} = ()_{16}$
- iv. $(642)_8 = ()_{16}$

=====All the Best=====



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CLASS: II BCA

Regulation : 2021-22

SUBJECT: Data structures and algorithms (19UCA05)

PREPARED BY : G.SENTHIL KUMAR

Part-A

ANSWER ALL THE QUESTIONS

1. An_____ is written in simple language
a) Algorithm b) data c) information d)none
2. _____ is pictorial representation of algorithm
a) Algorithm b) flow chart c) information d)none
3. _____ basic steps are present in problem solving
a) 5 b) 7 c) 6 d)10
4. _____ design is be techniques of breaking down a large program into various sub tasks
a) Bottom up b) top down c) both a&b d)none
5. _____ of a program denotes the amount of memory in computer
a) Time b) space c)frequent d)all
6. Which of the following data structure process by one by one?
b) Algorithm b) liner c) non liner d) data
7. Collection of same data type is called_____
a) Array b) stack c) linked list d) tree
8. Which of the following is an infix expression?
a) $(a+b)*(c+d)$ b) $ab+c*$ c) $+ab$ d) $abc+*$
9. Which of the following is non liner data structure?
a) String b) tree c) stack d) array
10. Stack is called_____
a)LIFO b)FIFO c)LILO d)none of these

11. -----is a way of organizing data in a computer
 (A) Data structure (B) Data (C) None (D) Both A & B
12. ----- the last node points to the header node
 a. Circular Linked list (B) Singly Linked list
 (C) Doubly Linked List (D) All the above
13. -----is a scheduling algorithm for time sharing systems
 (A) Round Robin Scheduling (B) FCFS
 (C) CPU Scheduling (D) All the above
14. ----- is a ordered collection of homogeneous data elements
 a. Queue (B) Stack (C) Dequeue (D) Enqueue
15. How many ways to represent a queue in memory.
 (A) 1 (B) 2 (C) 3 (D) 4
16. Time complexity of merge sort is----
 a. $O(\log n)$ (B) $O(n \log n)$ (C) $O(n)$ (D) None
17. ----- is a step by step instructions to excute data
 a. Data (B) Algorithm (C) Process (D) None of the above
18. The connecting link between any two nodes is called ----
 a. Edge (B) Root node (C) Parent (D) Child
19. The total no of edges from leaf node to a particular node in longest path is called
 a. Depth (B) Height (C) Width (D) Level
20. Time complexity of $o(\log n)$ is---
 (c) Bubble sort (B) Quick sort (C) Merge sort (D) None
21. Queue operation is used in -----
 a. FIFO (B) LIFO (C) Both a & b (D) None of the above
22. Time complexity of Quick sort is----
 a. $O(\log n)$ (B) $O(n \log n)$ (C) $O(n)$ (D) None
23. The total no of edges from leaf node to a particular node in longest path is called---
 a. Depth (B) Height (C) Width (D) Level
24. The node which has at least one child called-----
 a. Depth (B) Height (C) Width (D) Level
- 25 . -----is a non liner data structure which organizes data in hierarchical Structure.
 (A) Graph (B) Trees (C) Arrays (D) Linked List

Part-B

Answer any 2 Questions

11. Describe in detail about efficiency of algorithm
12. How to evaluate an arithmetic expression? Explain
13. Design an algorithm for finding factorial of a given number.
14. Write short note on procedures of problem solving..
15. Explain about Singly Linked list?
16. Demonstrate about trees terminologies.
17. Explain about Priority Queue?
18. Define sorting? Explain about insertion sort.

Part-C

Answer any three Questions

19. Explain the concepts of top down approach and bottom up approach. Find the difference between them
20. Explain about use and design of algorithm?
21. Discuss about fundamental & derived data types.
22. Briefly explain about the design, implementation and verifications of algorithm
23. Define queue? How to represent the queue.
24. . Explain the stack operation with an example.
25. Discuss about Linked list with example.
- 26.. Describe in detail about array in data structure
27. Explain about Heap tree and binary tree?
- 28.. Evaluate infix expression to postfix
- 1) $(A + B) * (C + D)$ 2) $A+B*C+(D*E)$ 3) $((A + B) * (C + E))$ 4) $((A+B*(C+D)*F)*E)$
29. Discuss about expression, threaded and Decision tree.
30. Discuss about merge sort and quick sort with example.

*****ALL THE BEST*****



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CLASS: II-CS

SUBJECT: Internet and Its Applications

Regulation : 2021-22

PREPARED BY : V.BALASUBRAMANIAM

PART A

ANSWER ALL THE QUESTIONS

1. In HTTP, the message send from the client to the server is called a -----

- a) Response
- b) Request
- c) Demand
- d) None of the above

2. The communication protocol used by internet is :

- a) HTTP
- b) WWW
- c) TCP/IP
- d) FTP

3. Which one of the following protocols is used for WWW

- a) FTP
- b) HTTP
- c) W3
- d) All of the above

4. Internet is

- a) Dynamic system
- b) Complex system
- c) Decentralized system
- d) All of the above

5. A _____ set of rules that governs data communication.

- a) Protocols
- b) Standards
- c) RFCs
- d) Servers

6. Several computers linked to a server to share programs and storage space.

- a) Library
- b) Network
- c) Grouping
- d) Integrated system

7. ----- option helps you to save an unfinished email without sending it.

- a) save as draft
- b) inbox
- c) sent items
- d) trash

Which of the following is mandatory for sending an E-mail?

- a) body
- b) Sender mail ID
- c) Attachment
- e) Subject

9. All telnet operations are sent as

- a) 4 bytes
- b) 8 bytes
- c) 16 bytes
- d) 32 bytes

10. A piece of icon or image on a web page associated with another webpage is called -----

- a) URL
- b) Hyperlink
- c) Plugin
- d) Extension

PART B

1. Write short notes on internet.
2. Describe the internet telnet.
3. Write short notes on Search Engines

PART C

1. Briefly describe about WWW.
2. Explain the term Electronic Mail (E-MAIL).
3. Explain the computer Network.
4. Write Short note on computer in business.



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DEPARTMENT OF COMPUTER SCIENCE

QUESTIONS BANK

SUBJECT NAME: JAVA PROGRAMMING

REGULATIONS: 2019-2020

CLASS : III BCA/III CS

PAPER CODE : 19UCA11/19UCS09

PREPARED BY : R.SENTHILKUMAR

Section-A

1. What is the extension of java code files?
a) .js b) .txt c) .class d) .java
2. What is the extension of compiled java classes?
a) .txt b) .js c) .class d) .java
3. Which component is used to compile, debug and execute the java programs?
a) JRE b) JIT c) JDK d) JVM
4. Which of these are selection statements in Java?
a) if() b) for() c) continue d) break
5. Which of the following is used with the switch statement?
a) Continue b) Exit c) break d) do
6. Which of these keywords can be used to prevent Method overriding in Java?
a) final b) protected c) static d) constant
7. Which keyword is used for accessing the features of a package?
a) Package b) import c) extends d) export
8. Which of these class object can be used to form a dynamic array?
a) ArrayList b) Map c) Vector d) ArrayList & vector
9. Which of these is a wrapper for data type int?
a) Integer b) Long c) Byte d) Double
10. How many threads can be executed at a time?
a) Only one thread b) Multiple threads c) Only main (main() method) thread
d) Two threads

11. which of these methods can be used to output a string in an applet?
a) display() b) print() c) drawString() d) transient()
12. Which of the following is an immediate subclass of the Panel class?
a)Applet class b) Window class c) Frame class d) Dialog class
13. The graphics class its contains_____
- a) java.util b) java.lang c) java.applet d) java.awt
14. . Which of these class contains the methods used to write in a file?
a) FileStream b) FileInputStream c) BUfferedOutputStream d) FileBufferStream
15. Which package contains the Random class?
a) java.util package b) java.lang package c) java.awt package d)java.io package

Section-B

16. Explain about Command Line arguments in java.
17. Describe the structure of a typical Java program
18. Discuss on Simple if Statement
19. Explain features of Java.
20. Write a note on Vectors.
21. Discuss on switch statement with example.
22. Explain the Concepts of Vectors and its methods.
23. Explain the various types of Exception.
24. Explain the types of Errors.
25. Explain the various drawing methods of Graphics class.

Section-C

26. Explain the Features of Java
27. Explain the Operators in Java
28. Discuss on decision making statements with example.

29. Explain in detail about Methods Overloading.
30. Explain in detail about Interfaces with example program.
31. Write a Java Program for Package creation.
32. Explain the Life Cycle of a Thread with example program.
33. Explain the Life Cycle of an Applet.
34. Explain about Drawing Polygons with Example Program.
35. Explain in detail about Input Stream Classes.



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DEPARTMENT OF COMPUTER SCIENCE

QUESTIONS BANK

SUBJECT NAME: GUI PROGRAMMING

REGULATIONS: 2019-2020

CLASS : III BCA/III CS

PAPER CODE : 19UCA12/19UCS06

PREPARED BY : R.SENTHILKUMAR

SECTION-A

-

1) Visual Basic is a tool that allows you to develop application in.....

- a. Real time b. Graphical User Interface c. Menu Driven d. None Of These

2) In window we can write code

- a. Immediate window b. Locals window c. Code editor window d. None of these

3) We can preserve the value of a local variable by making the variable.....

- a. Private b. Public c. Static d. Implicit

4) is a control related event

- a. Keydown b. Load c. Terminate d. GotFocus

5) Allows us to control the flow of our program's execution based on certain condition.

- a. Looping b. Array c. Property d. Control structure

6) RTF stands for.....

- a. Rich Text Format b. Rich Title Format c. Row Text Format d. Rich Text Function

7) The window in which the individual documents are displayed is called..... window

- a. Main b. Child c. Parent d. All of the above

8) is the process of finding and removing errors

a. Check b. Debugging c. Quick watch d. Break

9) Loop repeats a group of statements for each item in a collection of objects or for each element of an array.

a. For loop b. Do Until loop c. For each loop d. Do while loop

10)is a set of sequentially indexed elements having the same type of data.

a. Loop b. Array c. Variables d. Objects

11) What properties are required to be specified for a menu item

a. Name b. Caption c. Both a and b d. None of these

12) A... is used to display information entered at design time, by a user at runtime ,or assigned within the code

a. LabelBox b. TextBox c. ListBox d. ComboBox

13) is a Microsoft product for windows platform

a. Jet database engine b. ODBC c. OLEDB d. None of these

14) can access data from relational and non relational databases.

a. OLEDB b. Jet database engine c. ODBC d. None of these

15) Connectivity is independent of any DBMS or operating system

a. OLEDB b. ODBC c. DAO d. None of these

SECTION-B

16. Explain about controls in VB?

17. Finding and Fixing Errors

18. Discuss on Val function.

19. Explain the Parts of Code Window in VB with neat diagram?

20. Explain about Common Dialog Controls?

21. Discuss on Common Dialog Boxes.

22. Discuss in detail about Do/Loop with example.

23. Explain about MsgBox Function.

24. Write about Data Control.

25. Explain the ADO objects in VB?

SECTION-C

26. Discuss in detail about Tool Bars in VB?
27. What is a Variable? How will you declare a variable?
28. Explain in detail about Decisions and Conditions?
29. Discuss in detail about Menu Editor window? How will you add the Tool bars and explain it?
30. Explain the features of an MDI form?
31. Explain how the Debugging methods handled in VB?
32. Explain how the database was created in VB with the neat diagram?
33. Discuss in detail about Data Access Objects?
34. Describe how the ADO objects and ADO collections used in VB?
- 35 Explain how to generate the Data Report in VB?



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TIRUCHENGODE – 637205

DEPARTMENT OF COMPUTER SCIENCE

MODEL EXAMINATION JAN'2022

CLASS: III B.Sc.(C.S.) & BCA

MARKS: 75

SUBJECT: Multi skill development

I. ANSWER ALL QUESTIONS

1x 15=15

- 1.) Choose an article we ate _____ wonderful meal yesterday.
a) A b) An c) The d) at
- 2.) She was waiting _____ the corner
a) in b) at c) on d) inside
- 3.) Synonym for Justify is _____
a) demonstrate b) gracious c) awareness d) attachment
- 4.) Find which of the following number is divisible by 11 ?
a) 246542 b) 415624 c) 146532 d) 426513
- 5.) The total age of A and B is 12 years more than the total age of B and C. C is how many years younger than A ?
a) 12 b) 13 c) 14 d) 15
- 6.) "Excluding stoppages, the speed of a bus Q 54kmph and including stoppages, it is 45kmph for how many minutes does the bus stop per hour ?
a) 9 b) 10 c) 12 d) 20
- 7.) 53, 53, 40, 40, 27, 27, ?
a) 12 b) 14 c) 27 d) 53
- 8.) FAG, GAF, HAI, IAH, _____
a) JAK b) HAL c) HAK d) JAI
- 9.) Arun said, "This girl is the wife of the grandson of my mother". Who is Arun to the girl ?
a) Father b) Grandfather c) Husband d) Father in law
- 10.) One of the most communication skill is _____
a) empathic listening b) inactive listening
c) Objective listening d) active listening

- 11.) What is the main objective of interview process ?
a) Hire the right candidates b) Meet the high labour turnover
c) To reduce the cost of recruiting
- 12.) A group discussion must advance _____
a) truth b) dishonesty c) Personal glory d) arguments
- 13.) In a group discussion we should be _____
a) assertive b) dominating c) subjective d) Ignorant
- 14.) Which of these must be avoided in a group discussion ?
a) Speaking facts b) Asking questions
c) Speaking fast d) Speaking with clarity
- 15.) Your resume is a tool with one specific purpose
a) To get a job b) To win an interview
c) To discuss salary d) To discuss employment

PART-B

- 16.) Write the one word substitution
a) The study of Human mind
b) The study of plants
c) The supervising person during an examination
d) Someone who walks by foot
- 17.) A sum fetched a total simple interest of Rs. 4016. 25 at the rate of 9% in 5 years. What is the sum ?
- 18.) A man walks 2km towards North. Then he turns to East and walks 10kms. After this he turns to North and walks 3km. Again he turns towards East and walks 2km. How far is he from the starting point ?
- 19.) Write short notes on soft skills training.
- 20.) Explain Group Discussion Etiquette.

PART-C

- 21.) a) Write the antonyms
i) exterior -
ii) push -
iii) servant -
iv) tolerant -
v) sense

(or)

- b) Write the suitable prepositions
i) He drove _____ the bridge.
ii) He sat _____ the chair.
iii) The shops are _____ walking distance.
iv) He is _____ treatment for malaria.

22) a) A man buys a cycle for Rs.1400 and sell it a loss of 15%. What is the selling price of the cycle ?

(or)

b) 4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women complete it ?

23.) a) i) If "BEAT" is written as "YVZG" then MILS is _____

ii) If "HEALTH" IS WRITTEN IS "GSKZDG" then NORTH is _____

iii) Giant : Dwarf : Genius : ?

iv) pulp : Paper: Hemp : ?

v) If "COMPUTER" is written as "RFUVQNPC" then MEDICINE is _____

(or)

b)i) If south east becomes north, north-east becomes west and so on. What will west become ?

ii) K is 40m south-west of L. If M is 40m southeast of L, then M is in which direction of K?

24) a) Prepare a professional resume

(or)

b) What are the benefits of having good interpersonal skills

25) a) Discuss in detail about movement and gestures to be avoided in group discussion.

(or)

b) Discuss on "How to improve group discussion skills".



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TIRUCHENGODE – 637 205, NAMAKKAL DT., TAMILNADU

DEPARTMENT OF COMPUTER SCIENCE

QUESTION BANK

SUBJECT NAME: MULTIMEDIA

CLASS: III BCA

REGULATION: 2019-2020

PAPER CODE: 19UCAE06

PREPARED BY: MR. V. BALASUBRAMANIAM

SECTION-A

ONE MARK

1. The combination of text, graphics art, sound, animation and video delivered by computer or other electronic devices is called:
A. Multimedia-
B. Hyper media
C. Visual media
D. None
2. One of the disadvantages of multimedia is
A. Cost-
B. Adaptability
C. Usability
D. Relativity
3. Elements in Multimedia are
(A) Vector
(B) Linear
(C) Bandwidth
(A) Graphics-
4. The larger than a similar vector graphic image.
(A) Clipart
(B) Bitmap-
(C) Portable network graphic
(D) Thumbnail

5. Slide or negative film strips are placed in a carrier inside the film scanner is called
- (A) Flatbed Scanners
 - (B) Film Scanners-
 - (C) Hand Scanners
 - (D) 3D Scanners
6. _____ is the component of light which is separated which it is reflected off an object
- (A) Color-
 - (B) Frequency
 - (C) Hues
 - (D) primary
7. _____ is a simulation of movement created by displaying a series of pictures or frames
- (A) Color
 - (B) Zoom
 - (C) Object
 - (D) Animation-
8. _____ is commonly used tool for creating animations
- (A) text
 - (B) Flash-
 - (C) Filter
 - (D) Paint
9. The rate at which frames are displayed is measured in _____
- (A) FPS-
 - (B) MPEG3
 - (C) RAID
 - (D) RGB
10. The two types of memory are _____
- (A) RAM & ROM-
 - (B) CD, CD-R
 - (C) MPEG2
 - (D) DVD
11. The devices used for capturing image and video are _____
- (A) Webcam
 - (B) Image scanner
 - (C) Fingerprint scanner
 - (D) All the above-
12. The multi- media authoring software, we can make _____
- (A) Interactive web sites
 - (B) Demo disks and guided tours
 - (C) Presentations
 - (D) All the Above-

13. The Process of Making Multimedia basically consists_____
- (A) Delivery-
 - (B) Scheduling
 - (C) Estimating
 - (D) None of the above
14. A few basic structures for multimedia projects will cover most
- (A) Linear navigation
 - (B) Hierarchical navigation
 - (C) Nonlinear navigation
 - (D) All the above
15. _____ is the expensive and time-consuming tasks in organizing a multimedia project
- (A) Content acquisition-
 - (B) Talent acquisition
 - (C) Pre-existing Content
 - (D) Copyrights

SECTION-B

FIVE MARKS:

1. Explain the uses of multimedia.
2. Explain hyper media and hypertext.
3. How will you capture and edit the images?
4. Write short note on multimedia system sounds.
5. Write a short note on morphing.
6. Explain how video work.
7. Explain about software needs.
8. Write short note on designing and producing, testing.
9. Write a note on estimating cost and effort in multimedia project.
10. How will you obtain right of contest for a project?

SECTION-C

TEN MARKS:

1. Explain about delivering multimedia.
2. Explain: Hypermedia and Hypertext.
3. Explain in detail about digital audio.
4. How do you organize the tools? Explain.
5. Describe in detail about working with digital videos and displays.
6. Elucidate the animation by computer.
7. Explain about multimedia production team.
8. Explain the groups of multimedia elements.
9. Explain about designing a project.
10. Write about the client approvals of cycles.



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TIRUCHENGODE – 637 205

Department of Computer Science

QUESTION BANK

SUBJECT NAME: Problem Solving Techniques

REGULATION: 2019-2020

CLASS: III-B.C.A

PAPER CODE: 19UCA10

PREPARED BY: MR.M.CHINNUSAMY

Section – A

1 Marks

Answer all the Questions

1. A computer program is a _____ that performs a specific task when executed by a computer.
a) collection of instructions b) collection of algorithms c) collection of tasks d) none of the above
2. Debugging programs means
a) detecting crimes b) detecting faults c) “detecting errors” .d) all of the above
3. The efficiency of algorithms follow
a) cpu time b) memory c) cpu speed d) cpu time & memory
4. Which is assignment operator in pascal?
a) = b) := c) = d) = = .
5. What is output of $11 \div 3$ and $17 \bmod 2$?
a) 3, 1 b) 4, 2 c) 2, 1 d) 1, 1.
6. What are the values $\text{ord}('A')$ and $\text{ord}('c')$.
a) 65,98 b) 67,99 c) 65,97 d) 68,99
7. What is gcd of 30 & 18?
a) 7 b) 6 c) 4 d) 2
8. which expression is linear congruential method
a) $x_{n+1} = (ax_n + b) \bmod m$ b) $x_n = (ax_n + b) \bmod m$ c) $y = (ax + b) \bmod m$ d) none of above
9. What is output for $i = 5$ down to 0 do?
a) 4,3,2,1,0 b) 6,5,4,3,2,1 c) 1,2,3,4,5 d) 5,4,3,2,1,0

10. Pivot value is selected as _____ position for partition array
a) first b) last c) middle d) all of the above
11. what is array reversal of 1 4 2 7 6 0
a) 0 6 7 2 4 1 b) 0 1 2 4 6 7 c) 7 6 4 2 1 0 d) 1 2 4 6 7 0
12. which method is used to sort the numbers?
a) selection b) binary c) linear d) none
13. Binary search is a fast search algorithm with run-time complexity of
a) $O(\log 2)$ b) $O(\log n)$ c) $n \log O$ d) $2O \log n$
14. Merge sort can be used _____
a) Merge 2 arrays b) merge 3 arrays c) merge n arrays d) all
15. Partition array contains _____
a) left values $\leq$ pivot b) right values $>$ pivot c) both a & b d) none

Section – B

5 Marks

Answer any two Questions

16. Write about the problem-solving aspects.
17. Describe Program Verification
18. Explain character to number conversion.
19. Discuss about sine function computation
20. Write generating prime numbers.
21. Explain finding the square root of a number
22. Briefly explain about finding the maximum number in array.
23. Describe partitioning an array
24. Write binary search algorithm.
25. Discuss about diminishing increment and partitioning

Section – C

10 Marks

Answer all the Questions

26. Discuss about top-down design in detail and efficiency of algorithm
27. Explain in detail about implementation of Algorithms & Program Verification -
28. Explain in detail about raising a number to a large power.
29. Write in detail about factorial computation & sine function computation
30. Discuss in detail about greatest common divisor of 2 integers
31. Explain in detail about generating prime numbers & pseudo random Numbers -
32. Discuss removal of duplicates from an ordered array
33. Explain in detail about array counting or histogramming
34. Explain any 2 sorting algorithm.
35. Write two way merge sort algorithm.



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TIRUCHENGODE – 637 205, NAMAKKAL DT., TAMILNADU

DEPARTMENT OF COMPUTER SCIENCE

QUESTION BANK

SUBJECT NAME: COMPUTER APPLICATIONS FOR AUTOMATION

CLASS: I BCA

REGULATION: 2019-2020

PAPER CODE: 19UCA01

PREPARED BY: MR.G.SENTHILKUMAR

SECTION-A

ONE MARKS

1. ALU is

(a) Array Logic Unit (b) Application Logic Unit (c) Arithmetic Logic Unit (d) Arithmetic Login Unit

2. _____ is an electronic device which converts raw data into meaningful information.

(a) Hardware (b) Computer (c) Software (d) Compiler

3. The most commonly used input device is _____

(a) Mouse (b) scanner (c) Keyboard (d) joystick

4. In which view Headers and footers are visible.

(a) Normal View (b) Page Layout View

(c) Print Layout View (d) Draft View

5. Color and pattern used to fill a closed shape is called

(a) Shape (b) Word Art (c) Fill Style (d) Fill Back

6. Microsoft word is _____ software.

(a) Application (b) compiler (c) System (d) programming

7. What is the intersection of a column and a row on a worksheet called?

(a) Column (b) Value (c) Address (d) Cell

8. Which one is not a Function in Ms-Excel?

- (a) SUM (b) AVG (c) MAX (d) MIN

9. In Excel, which one denoted a range from B1through E4?

- (a) B1-E4 (b) B1:E4 (c) B1 to E4 (d) B1\$E4

10. Which of these is not the view of Power Point?

- (a) Slide Show view (b) Slide Sorter view
(c) Normal view (d) Outline view

11. What is Extension of Power point Presentation?

- (a) .POT (b) .PPT (c) .PTP (d) .PPE

12. Which of these slides is used as a background?

- (a) Gradient (b) Texture (c) Picture (d) All of these

13. What method can you use to add a new table to your database?

- (a) Use design View to create a table (b) Enter data directly by using a datasheet
(c) Both of above (d) None of these

14. A collection of related tables is called.

- (a) Row (b) Record (c) Database (d) File

15. Which of the following is not an action query?

- (a) add (b) delete (c) make-table (d) update

SECTION-B

FIVE MARKS:

1. Write short notes on ALU.
2. Explain how RAM is differing from ROM.
3. Discuss in brief about the environment of MS-word.
4. Illustrate notes on Mouse operations on creating a document.
5. Write a notes on different formulas used in MS-Excel with example.
6. Discuss about entering and editing text in MS-Excel.
7. Demonstrate how to create a presentation slides with pictures and Videos.
8. Describe in brief on slide show in MS-PowerPoint.
9. Explain about renaming columns.
10. Illustrate brief on opening a existing table and manipulation of table..

SECTION-C

TEN MARKS:

1. Explain the various generations of computers.
2. Elaborate about types of Computers.
3. Write short notes on Menus Commands in Ms-Word.
4. Describe about Word formatting Toolbar in Ms-Word.
5. Explain the various Menu commands in Ms-Excel.
6. How to edit a worksheet in Ms-Excel? Explain of them.
7. How to insert of multimedia elements? Explain of them.
8. Discuss on various formatting slides.
9. Explain the Table Wizard.
10. Distinguish between Form and Report.



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TIRUCHIENGODE – 637205
DEPARTMENT OF COMPUTER SCIENCE
MODEL EXAMINATION

CLASS: II-B.sc(CS),BCA

MARKS: 75

SUBJECT: Relational Database Management System

DATE: -06-2022

Part-A

ANSWER ALL THE QUESTIONS

15x 1=15

1. A relational database consist of a collection of

(a) Tables (b) Fields (c) Records (d) Keys

2. The term _____ is used to refer to a row

(a) Attribute (b) Tuple (c) Field (d) Instances

3. Course(course_id, sec_id, semester) Here the course_id, sec_id and semester are _____ and course is a _____

(a) Relation, Attribute (b) Attribute, Relation (c) Tuple, Attribute (d) Tuple, Relation

4. Consider attribute ID, CITY and NAME. Which one of this can be considered as a superkey?

(a) NAME (b) ID (c) CITY (d) CITY, ID

5. The _____ Operations allows the combining of two relations by merging pairs of tuples, one from each, relation, into a single tuples?

(a) Select (b) Project (c) Join (d) Union

6. The _____ operator takes the results of two queries and returns only rows that appear in both result sets.

(a) Union (b) Intersect (c) Difference (d) Projection

7. Updates that violate _____ are disallowed?

(a) Integrity constraints (b) Transaction control (c) Authorization (d) DDL constraints

8. In SQL the spaces at the end of the string are removed by _____ function?

(a) Upper (b) String (c) Trim (d) Lower

9. Aggregate functions are function that takes a _____ as input and return a single value.

(a) Collection of value (b) Single value (c) Aggregate value (d) Both a & b

10. A function that has no partial functional dependencies is in _____ form?

(a) 3NF (b) 2NF (c) 4NF (d) BCNF

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11. 4NF is designed to cope with
(a) Transitive dependency (b) Join dependency (c) Multivalued dependency (d) None of these
12. Every Boyce-codd normal form is in
(a) First Normal Form (b) Second Normal Form (c) Third Normal Form (d) All of the above
13. A _____ consists of a sequence of query and or update statements.
(a) Transaction (b) Commit (c) Rollback (d) Flashback
14. What are the ways of dealing with deadlock?
(a) Deadlock Prevention (b) Deadlock Recovery (c) Deadlock Detection (d) All of the above
15. The situation where the lock waits only for a specified amount of time for another lock to be released?
(a) Lock timeout (b) Wait-wound (c) Timeout (d) Wait

PART B — (2 × 5 = 10 marks)

Answer any TWO questions.

16. Describe Database Language.
17. What is the Nested Sub query?
18. What are Domain Constraints?
19. What is the goal of relational database design?
20. What are the states of transaction?

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

21. (a) With a neat diagram, explain the Structure of a DBMS? (Or)
(b) Compare File system and DBMS
22. (a) Explain about the structure of relational databases? (Or)
(b) Explain about the joined relations?
23. (a) Explain the concept of Triggers with example? (Or)
(b) List the types of Authorization?
24. (a) Discuss about 1NF and 2NF? (Or)
(b) Discuss about 3NF and 4 NF?
25. (a) What is the transaction state and its ACID properties? Or)
(b) Explain the following protocols 1. Lock based Protocols 2. Time stamp based Protocols?

*****BEST OF LUCK*****

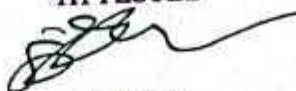
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CO'S Patterns

S.NO	CO'S	Questions.No		
		PART-A	PART-B	PART-C
1.	CO-1	1,2,3	16	21(a),(b)
2.	CO-2	4,5,6	17	22(a),(b)
3.	CO-3	7,8,9	18	23(a),(b)
4.	CO-4	10,11,12	19	24(a),(b)
5.	CO-5	13,14,15	20	25(a),(b)

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11.12.21 (Tuesday)
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1-MONTHLY EXAM DECEMBER-2021

V-SEMESTER

CLASS : III.B.Sc(CS)'A'&'B'

GUI PROGRAMMING

MARKS : 50

TIME : 2 HOURS

SECTION-A

10 * 1 = 10

CHOOSE THE CORRECT ANSWER

1. Visual Basic is a tool that allows you to develop application in____
a. Real time b. Graphical User Interface c. Menu Driven d. None Of These
2. IDE stands for.....
a. Internet Development Environment b. Integrated Dual Environment c. Integrated Environment d. Integrated Desktop Environment
3. Which of the following provides quick access to commonly used commands in the programming environment
a. Toolbox b. Object browser c. Toolbar d. None of these
4. ____ is used for finding out about objects, properties and methods.
a. Object browser b. Property window c. Form layout window d. Code editor window
5. In window we can write code
a. Immediate window b. Locals window c. Code editor window d. None of these
6. The form module has file extension..
a. .frb b. .fra c. .frm d. .fru
7. A text box can hold as many as characters for a multi-line text
a. 42000 b. 48000 c. 23000 d. 32000
8. Control is used to display text, but user cannot change it directly.
a. Textbox b. Labelbox c. Listbox d. Commandbutton
9. The default datatype for Visual Basic is____
a. Integer b. Boolean c. Variant d. String
10. Properties can be viewed in two ways
a. Alphabetic and Categorized b. Alphabetic and Numeric c. Numeric and Alphanumeric
d. None of these

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SECTION-II

2 * 5 = 10

ANSWER ANY TWO QUESTIONS

11. Explain any 10 Tool box in VB?
12. Discuss about parts of code Window in VB?
13. Explain the steps to create Menu editor in VB with the neat diagram?

SECTION-C

3 * 10 = 30

ANSWER ANY THREE QUESTIONS

14. Discuss in detail about Toolbars in VB?
15. Write the VB program to create the Arithmetic Calculator
16. Explain about Control Statements in VB in detail?
17. Explain in detail about the types of files in VB ?
18. Write the VB program to generate the Sum of N numbers?

=====ALL THE BEST=====

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(6 pages)

S.No. 2617

**19UCA13/19UCS08/
19UIS08**

(For the candidates admitted from 2019–2020 onwards)

B.C.A/B.Sc DEGREE EXAMINATION,
JANUARY 2022.

Fifth/Sixth Semester

COMPUTER NETWORKS

(Common for : B.Sc. CS /IS)

Time : Three hours

Maximum : 75 marks

PART A — ($15 \times 1 = 15$ marks)

Answer ALL questions.

1. Which of the following transmission directions listed is not a legitimate channel?
 - (a) Simplex
 - (b) Half Duplex
 - (c) Full Duplex
 - (d) Double Duplex

2. The correct order of corresponding OSI layers for having functionalities of routing and reconciling machine representation differences with shared access resolution and ASCII test protocol is
- (a) Network, Physical, Transport, Data link
 - (b) Network, Physical, Data link, Application
 - (c) Network, Presentation, Data link, Application
 - (d) Network, Presentation, Physical, Transport
3. What is the maximum data transfer rate of the optical fiber wire?
- (a) 1000 kbps (b) 50 kbps
 - (c) 1000 Mbps (d) 50 mbps
4. In which of the following switching methods, the message is divided into small packets
- (a) Packet switching (b) Virtual switching
 - (c) Message switching (d) Data switching
5. MAC address is also called as _____
- (a) Physical address (b) Logical address
 - (c) Source address (d) Destination address

6. Which sublayer of the data link layer performs data link functions that depend upon the type of medium?
- (a) Logical link control sublayer
 - (b) Media access control sublayer
 - (c) Error control sublayer
 - (d) Network interface control sublayer
7. Which one of the following is not a function of network layer?
- (a) Routing
 - (b) Inter-networking
 - (c) Congestion control
 - (d) Error control
8. Which of the following is not correct in relation to multi-destination routing?
- (a) Is same as broadcast routing
 - (b) Contains the list of all destinations
 - (c) Data is not sent by packets
 - (d) There are multiple receivers
9. The network layer protocol for internet is _____
- (a) Ethernet
 - (b) Internet Protocol
 - (c) Hypertext Transfer Protocol
 - (d) File Transfer Protocol

10. Which of the following are transport layer protocols used in networking?
- (a) TCP and FTP (b) UDP and HTTP
(c) TCP and UDP (d) UTTP and FTP
11. Transport layer protocols deals with —————
- (a) Man to man communication
(b) Process to process communication
(c) Node to node communication
(d) Application to application communication
12. An endpoint of an inter-process communication flow across a computer network is called
- (a) Machine (b) Pipe
(c) Port (d) Socket
13. The ————— translates internet domain and host names to IP address
- (a) Domain name system
(b) Routing information protocol
(c) Network time protocol
(d) Internet relay chat

14. The domain name system is maintained by _____
- (a) Single computer
 - (b) Single server
 - (c) Distributed database system
 - (d) Data system
15. When a DNS server accepts and uses incorrect information from a host that has no authority giving that information, then it is called _____
- (a) DNS lookup (b) DNS spoofing
 - (c) DNS hijacking (d) DNS authorizing

PART B — ($2 \times 5 = 10$ marks)

Answer any TWO questions out of FIVE.

16. Explain about Wireless Transmission.
17. Write a note on One-Bit Sliding Window Protocol.
18. What is internetworking?
19. Explain Remote Procedure Call.
20. What is Domain Name System?

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

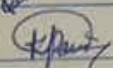
21. (a) Explain about Network Hardware.
Or
(b) Illustrate on Public Switched Telephone Network.
22. (a) Explain in detail about design issues of Data Link Layer.
Or
(b) Discuss about Multiple Access Protocols.
23. (a) Give a note on Quality of Service.
Or
(b) List out various Routing Algorithms. Explain any one in detail.
24. (a) Briefly Explain about UDP.
Or
(b) Write a note on Transport Services.
25. (a) Discuss in detail about Electronic Mail.
Or
(b) Briefly explain about Cryptography.

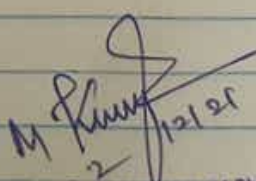
18.11 Minutes of the meeting held at 1.30 PM

All the department heads meeting with principal at 12.05 PM today. Following that Department meeting held 1.30 PM.

1. Staff members should sign the register at 9.30 AM
2. Dec - 7 - Last date for Online Exam Entry (IInd and IIIrd yrs)
3. December - 14th - 1st monthly start
4. December - 8 Last date for submit Question paper in department both Hand Copy & Soft Copy.

5

SRE - A. S. S. S.
 PD - 
 KP - 
 KB - K. B. S. S.
 MA - M. A. S. S.
 JME - J. M. S. S.


 2/12/21
 M. KANAGARAJAN, M.A., M.Phil., B.Ed.,
 HOD Cum Asst. Professor in English
 Department of English
 Vengunthar Arts and Science College
 Tiruchengode.

24.2.22 Minutes of the meeting held at 11. Am.

1. Paper willing for even semester
Submit on or before 28.02.2022.
2. Prepare time table for even semester.
3. Staff members should be avoid gossip.

SRE - *[Signature]*

PD - *[Signature]*

KP - *[Signature]*

KB - K. Bhujara

MA - M. H. *[Signature]* 28/2/22

JME - *[Signature]*

03.22 Minutes of the meeting held at 12.10 pm.

All the Departments head's meeting with Principal held at 28.02.2022. Following that Department meeting held at 12.10 pm.

1. Our College dates enters in Software Process start.

2. In Which Position NAAC work in the Department.

3. Class Discharge follow the student's fees pending.

SRE - S. S. S.
 PD - ~~PD~~
 KP - K. P. K. 1/3/22
 KB - K. B. K.
 MA - M. A. M.
 JME - J. M. E.

24.05.03.22 Minutes of the meeting held at 4 PM

All the Departments Head's meeting with Principal at 2 pm following that Department meeting held at 4 pm Today.

1. Internal marks & Errors Submit Today (on) Monday morning 10 Am.

2. University Exam Valuation starts at 07.03.22 to 12.03.2022.

3. External valuation staff members should get approval letter from principal before valuation Submit.

4. Monday Staff members submit paper willingness according to NAAC Process and workload.

5. College reopens may be coming Wednesday or next Monday.

SRE - [Signature]
 PD - [Signature]
 KP - [Signature] 5/3/22
 KB - K. Bhuj 5/3/22
 MA - M. [Signature] 5/3/22
 JME - [Signature]

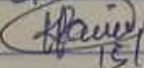
03-2022

Minutes of the meeting held at 1.30 pm.

All the Departments HOD's meeting with Principal held at today 12.05 pm. following that, Department meeting held at 1.30 pm today.

1. Staff members are requested to come before 9.30 Am [Except bus incharge(s)]
2. Mobile phones not Permitted to students inside the campus. If students needs to get Permission letter from Concern department.
3. Students should come college with Proper dress code and Identity card must.
4. Staff members are asked to give Prior information CL form to the office.
5. class incharges are asked to inform their Students do not leave outside of the classroom.
6. Staff members are asked to avoid the gossiping and comments inside the campus.

SRE - OD

PD - KP -  15/9/22KB - K. B. MA - M.  15/9/22JME - 

01.04.22 Minutes of the meeting held at 4.10 pm

All the departments Head's meeting with Principal at 2.00 pm, following that Department meeting held at 4.10 pm.

1. Staff members are instructed to submit 1st monthly Question Papers and Answer key on or before 05.04.2022.
2. Staff Subject Incharges are submit material on or before 05.04.2022.
- 3.

SRE - *[Signature]* 1.4.22
 PD - *[Signature]*
 KP - *[Signature]* 1.4.22
 KB - *[Signature]*
 MA - *[Signature]*
 JME - *[Signature]*

[Signature]
M. KANAGARAJAN, M.A., M.Phil., B.Ed.,
 HOD Cum Asst. Professor in English
 Department of English
 Sengunthar Arts and Science College
 Tiruchengode.

20.4.22 Minutes of the meeting held at 4.10 PM

1. Class Incharges are instructed should material Tomorrow on or before 10 AM.

2. Professional English material Last Date - 25.4.22.

3. Answer key submission Last date - 29.4.22

4. Subject Incharges collect the Assignments and correct that, Submit within 2 days.

SRE - *[Signature]* 20/4/22

PD - *[Signature]*

KP - *[Signature]* 20/4/22

KB - K. Bhargava

MA - 17/4/22

JME - L

[Signature]
M. KANAGARAJAN, M.A., M.Phil., B.Ed.,
 HOD Cum Asst. Professor in English
 Department of English
 Sengunthar Arts and Science College
 Tiruchengode.

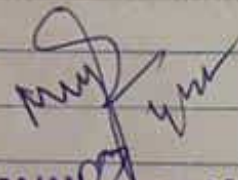
23.04.2022 Minutes of the meeting held at 1.00 PM

HOD instructed to the staff members to take a effective class both foundation English and major classes.

HOD instructed that I BA English Drama Paper hereafter handled by HOD Mr. Kanagarajan Sir.

Due to Reason I BA Students asked HOD Sir to change the Drama Paper staff.

SRE - J. Rajarajasekaran
 PD - L
 KP - K. P. Rajarajasekaran
 KB - K. Bhujangam
 MA - M. A. Rajarajasekaran
 JMF - J. M. Rajarajasekaran


M. KANAGARAJAN, M.A., M.Phil., B.Ed.,
 HOD Cum Asst. Professor in English
 Department of English
 Sengunthar Arts and Science College
 Tiruchengode.

16/05/2022 Minutes of the meeting held at 1:30 pm.

1. Staff members are instructed to complete their syllabus.
2. Staff members are asked to ensure that foundation English and major materials are dispersed to the students.
3. Staff members are asked to sign their attendance registers on or before 9:40 am.
4. Tomorrow will be AAA auditing in our college so they have to keep their tables clean.
5. Staff members are asked to instruct the girls students to follow their college rules.
6. Staff members are asked to complete their assigned work on time.

SRE 7.25.7.

PD - ~~PD~~

KP - ~~KP~~

KB - L

MA - ~~MA~~

JMB - 16/5/2022

M. Kanaganathan
16/5/22
M. KANAGANATHAN M.A. M.Phil. B.Ed.,
HOD Cum/Asst. Professor in English
Department of English
Sengunthar Arts and Science College
Tiruchengode.

01/06/22. Minutes of the meeting held at 1.30 PM

→ Staff members are instructed to submit Admission report at 1.30 PM Sharply everyday.

→ Facebook Committee should post department activities everyday.

→ Staff members are instructed to submit LogBook on Monday.

→ Late comers are instructed to meet principal.

SRE - *[Signature]*
 PD - *[Signature]*
 KP - *[Signature]* 1/6/22
 MA - *[Signature]*
 JME - *[Signature]* 1/6/22

[Signature]
 1/6/22

M. KANAGARAJAN, M.A., M.Phil., B.Ed.,
 HOD Cum Asst. Professor in English
 Department of English
 Sengunthar Arts and Science College
 Tiruchengode.

08/06/22

79

Minutes of the Meeting held at 11.55 AM to 12.10 PM

→ As for the principal's instructions Shabana Begum migrated from UG to PG Department.

→ The following classes are shared with her:
Last three day orders (I, V, VI).

I - B-Com, CA, III - Maths, Biotech & Chemistry & II - C&

SPE - J. J. J.

PD - D

KP - K. P. P. / 20

MA - M. A. A.

JME - J. M. E.

SIBE - S. I. B. E.


M. KANAGARAJAN, M.A., M.Phil., B.Ed.
HOD Cum Asst. Professor in English
Department of English
Sengunthar Arts and Science College
Tiruchengode.

14.06.2022

minutes of the meeting held at. 1.40 PM to 2.00 PM

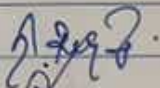
Staff members are instructed to maintain Movement Register Note.

Staff members are instructed to complete their Syllabus before model examination.

Staff members are instructed to ensure that foundation English and major materials are dispatched to the students.

Staff members are asked to Submit Assignments to Exam Cell.

Model Examination commences on 16/6/2022,

GRE - 
 PD - 
 KP - K. Paul 14/6/22
 MA - M. 
 JNE - 
 SSBE - L


M. KANAGARAJAN, M.A., M.Phil., B.Ed.,
 HOD Cum Asst. Professor in English
 Department of English
 Bengunthar Arts and Science College
 Tiruchengode.

Minutes of the Meeting held at 4:10 pm.

Staff members are instructed to Submit the log book on Monday.

Staff members are asked to fulfill the department admission by next week.

Staff members are asked to follow the College norms. They have to Sign at 9:30 am.

Staff members are instructed to attend the drive on 11-7-2022 without fail.

Model Exam papers should be Valuated and Submitted on Tuesday (05-7-2022).

SRE - A. S. S. S.
 PD - [Signature]
 KP - [Signature]
 MA - H. M.
 JME - [Signature] 1/7/2022
 SSBE - L
 TK - [Signature]



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Tiruchengode – 637 205, Namakkal Dt., Tamil Nadu



DEPARTMENT OF CHEMISTRY

CIRCULAR

CLASS COMMITTEE MEETING 2021-2022

It is here by informing that, our Department has conducted “Class Committee Meeting” for ODD semester on 10-09-2021. The class representatives of 1ST, 2ND and 3RD year students are requested to attend the meeting. The meeting held in 1.30 PM.

NAME OF THE CHAIR PERSON: Mr.N.HARI PRABHU

S.NO	CLASS	NAME OF THE REPRESENTATIVE	SIGNATURE
1.	I-B.Sc.,	M.ASHOK	M. Ashok
2.	II-B.Sc.,	K.DESINGU	K. Desingu
3.	III-B.Sc.,	C.DHIVAGAR	C. Dhivagar

N. Hari
H.O.D



[Signature]
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TIRUCHENGODE - 637 205,
NAMAKKAL Dt, TAMIL NADU



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DEPARTMENT OF CHEMISTRY

CLASS COMMITTEE MEETING 2021-2022

CLASS : I, II & III B.Sc., CHEMISTRY **DATE:** 10.09.2021
SEMESTER : ODD **TIME:** 1.30 PM
VENUE : CHEMISTRY LAB **MEETING NO:** 1

NAME OF THE CHAIR PERSON: Mr.N.HARI PRABHU

S.NO	CLASS	NAME OF THE REPRESENTATIVE	SIGNATURE
1.	I-B.Sc.,	M.ASHOK	M. Ashok
2.	II-B.Sc.,	K.DESINGU	K.D.
3.	III-B.Sc.,	C.DHIVAGAR	C. Dhivagar

MINUTES OF MEETING (BEFORE EXAMINATION)

The following points were discussed in the meeting

- ✓ Students are asked to focus on their Monthly exams
- ✓ Students are asked to collect old question papers for reference
- ✓ Students are asked to maintain their regular attendance
- ✓ Students are asked to maintain the proper dress code

H.O.D

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SYLLABUS COMPLETION



S. NO	CLASS	NAME OF THE SUBJECTS	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1	I B. Sc.,	Tamil – I	Two Unit	Given	
2		English – I	One and half unit	Given	
3		General Chemistry - I	Two Unit	Given	
4		Allied- Mathematics-I	One and half unit	Given	
5		Professional English-I	Three Unit	Given	
6		Value Education - Yoga	Two Unit	Given	
6	II B.Sc.,	Tamil-III	Two Unit	Given	
7		English-III	Two unit	Given	
8		General Chemistry - II	One and half unit	Given	
9		Allied-Physics-I	Two unit	Given	
10		SBEC-Polymer Chemistry	One and half unit	Given	
11		NMEC-Basic of Computer	One and half unit	Given	
12	III B.Sc.,	Inorganic Chemistry	One and half unit	Given	
13		Organic Chemistry	Two unit	Given	
14		Physical Chemistry	Two unit	Given	
15		Elective-Analytical Chemistry	One and half unit	Given	
16		SBEC- Agricultural Chemistry	Two unit	Given	
17		SBEC-Dye Stuffs and Treatment of Effluents	Two unit	Given	

N. Hor
H.O.D

[Signature]
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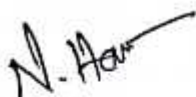
CIRCULAR

CLASS COMMITTEE MEETING 2021-2022

It is here by informing that, our Department has conducted “Class Committee Meeting” for ODD semester on 17-10-2021. The class representatives of 1ST, 2ND and 3RD year student are requested to attend the meeting. The meeting held 1.30 pm.

NAME OF THE CHAIR PERSON: Mr.N.HARI PRABHU

S.NO	CLASS	NAME OF THE REPRESENTATIVE	SIGNATURE
1.	I-B.Sc.,	M.ASHOK	M. Ashok
2.	II-B.Sc.,	K.DESINGU	K.D.
3.	III-B.Sc.,	C.DHIVAGAR	C. Dhivagar


H.O.D




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DEPARTMENT OF CHEMISTRY

CLASS COMMITTEE MEETING 2021-2022

CLASS : I, II & III B.Sc., CHEMISTRY

DATE: 17.10.2021

SEMESTER : ODD

TIME: 1.30 PM

VENUE : CHEMISTRY LAB

MEETING NO: 2

NAME OF THE CHAIR PERSON: Mr.N.HARI PRABHU

S.NO	CLASS	NAME OF THE REPRESENTATIVE	SIGNATURE
1.	I-B.Sc.,	M.ASHOK	M. Ashok
2.	II-B.Sc.,	K.DESINGU	K.D.
3.	III-B.Sc.,	C.DHIVAGAR	C. Dhivagar

MINUTES OF MEETING (BEFORE EXAMINATION)

The following points were discussed in the meeting

- Students are asked to focus on their semester exams
- Student are asked to submit their assignments at time
- Students are advised to use the library and refer the old question paper
- Students are asked to maintain their regular attendance
- Students are asked to keep their class rooms clean and neat
- Students are asked to clear their pending fees before their semester examination

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Tiruchengode – 637 205, Namakkal Dt., Tamil Nadu

SYLLABUS COMPLETION



S. NO	CLASS	NAME OF THE SUBJECTS	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1	I B. Sc.,	Tamil – I	Completed	Given	
2		English – I	Completed	Given	
3		General Chemistry - I	Completed	Given	
4		Allied- Mathematics-I	Completed	Given	
5		Value Education - Yoga	Completed	Given	
6	II B.Sc.,	Tamil-III	Completed	Given	
7		English-III	Completed	Given	
8		General Chemistry - III	Completed	Given	
9		Allied-Physics-I	Completed	Given	
10		SBEC-Polymer Chemistry	Completed	Given	
11		NMEC-Basic of Computer	Completed	Given	
12	III B.Sc.,	Inorganic Chemistry	Completed	Given	
13		Organic Chemistry	Completed	Given	
14		Physical Chemistry	Completed	Given	
15		Elective-Analytical Chemistry	Completed	Given	
16		SBEC- Agricultural Chemistry	Completed	Given	
17		SBEC-Dye Stuffs and Treatment of Effluents	Completed	Given	

N. H.
H.O.D

[Signature]
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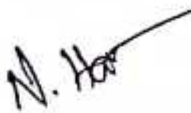
CIRCULAR

CLASS COMMITTEE MEETING 2021-2022

It is here by informing that, our Department has conducted "Class Committee Meeting" for EVEN semester on 17-02-2022. The class representatives of 1ST, 2ND and 3RD year students are requested to attend the meeting. The meeting held at staff room at 1.30 pm.

NAME OF THE CHAIR PERSON: Mr.N.HARI PRABHU

S.NO	CLASS	NAME OF THE REPRESENTATIVE	SIGNATURE
1.	I-B.Sc.,	M.ASHOK	M. Ashok
2.	II-B.Sc.,	K.DESINGU	K. Desingu
3.	III-B.Sc.,	C.DHIVAGAR	C. Dhivagar


H.O.D




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DEPARTMENT OF CHEMISTRY

CLASS COMMITTEE MEETING 2021-2022

CLASS : I, II & III B.Sc., CHEMISTRY

DATE: 17-02-2022

SEMESTER : EVEN

TIME: 1.30 PM

VENUE : CHEMISTRY LAB.

MEETING NO: 1

NAME OF THE CHAIR PERSON: Mr.N.HARI PRABHU

S.NO	CLASS	NAME OF THE REPRESENTATIVE	SIGNATURE
1.	I-B.Sc.,	M.ASHOK	M. Ashok
2.	II-B.Sc.,	K.DESINGU	K.D.
3.	III-B.Sc.,	C.DHIVAGAR	C. Dhivagar

MINUTES OF MEETING (BEFORE EXAMINATION)

The following points were discussed in the meeting

- ✓ Students are asked to focus on their Monthly exams
- ✓ Students are advised to restrict their mobile phone usage
- ✓ Students are asked to maintain their regular attendance
- ✓ Students are asked to maintain the proper dress code
- ✓ Students were instructed to attentive at class room and practicals

H.O.D

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NAMAKKAL DT., TAMIL NADU



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Tiruchengode – 637 205, Namakkal Dt., Tamil Nadu

SYLLABUS COMPLETION



S. NO	CLASS	NAME OF THE SUBJECTS	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1	I B. Sc.,	Tamil – II	One Unit	Given	
2		English – II	Two Unit	Given	
3		General Chemistry - II	One and half unit	Given	
4		Allied- Mathematics-II	Two Unit	Given	
5		Professional English-II	Two Unit	Given	
6		SBEC-Food & Nutrition	One and half unit	Given	
7		Environmental studies	Two Unit	Given	
6	II B.Sc.,	Tamil-IV	One unit	Given	
7		English-IV	One and half unit	Given	
8		General Chemistry - IV	Two Unit	Given	
9		Allied-Physics-II	One unit	Given	
10		SBEC-Polymer Chemistry	Two unit	Given	
11		NMEC-Office Automation	One unit	Given	
12	III B.Sc.,	Inorganic Chemistry-II	One unit	Given	
13		Organic Chemistry-II	One and half unit	Given	
14		Physical Chemistry-II	Two Unit	Given	
15		Elective-Analytical Chemistry-II	Two unit	Given	
16		SBEC- Industrial Chemistry	One and half unit	Given	
17		SBEC- Pharmaceutical Chemistry	One unit	Given	

N. A. H.
H.O.D

[Signature]
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SENGUNTHAR ARTS AND SCIENCE COLLEGE
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DEPARTMENT OF CHEMISTRY

CIRCULAR

CLASS COMMITTEE MEETING 2021-2022

It is here by informing that, our Department has conducted “Class Committee Meeting” for ODD semester on 29-03-2022. The class representatives of 1ST, 2ND and 3RD year student are requested to attend the meeting. The meeting held at staff room at 1.30 pm.

NAME OF THE CHAIR PERSON: Mr.N.HARI PRABHU

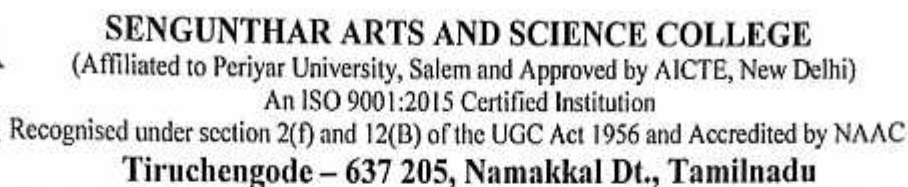
S.NO	CLASS	NAME OF THE REPRESENTATIVE	SIGNATURE
1.	I-B.Sc.,	M.ASHOK	M. Ashok
2.	II-B.Sc.,	K.DESINGU	K.D.
3.	III-B.Sc.,	C.DHIVAGAR	C. Dhivagar


H.O.D




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SENGUNTHAR ARTS AND SCIENCE COLLEGE
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SYLLABUS COMPLETION

S. NO	CLASS	NAME OF THE SUBJECTS	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1	I B. Sc.,	Tamil – II	Completed	Given	
2		English – II	Completed	Given	
3		General Chemistry - II	Completed	Given	
4		Allied- Mathematics-II	Completed	Given	
5		Professional English-II	Completed	Given	
6		SBEC-Food & Nutrition	Completed	Given	
7		Environmental studies	Completed	Given	
6	II B.Sc.,	Tamil-IV	Completed	Given	
7		English-IV	Completed	Given	
8		General Chemistry - IV	Completed	Given	
9		Allied-Physics-II	Completed	Given	
10		SBEC-Polymer Chemistry	Completed	Given	
11		NMEC-Office Automation	Completed	Given	
12	III B.Sc.,	Inorganic Chemistry-II	Completed	Given	
13		Organic Chemistry-II	Completed	Given	
14		Physical Chemistry-II	Completed	Given	
15		Elective-Analytical Chemistry-II	Completed	Given	
16		SBEC- Industrial Chemistry	Completed	Given	
17		SBEC- Pharmaceutical Chemistry	Completed	Given	

H.O.D

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NAMAKKAL DT, TAMIL NADU



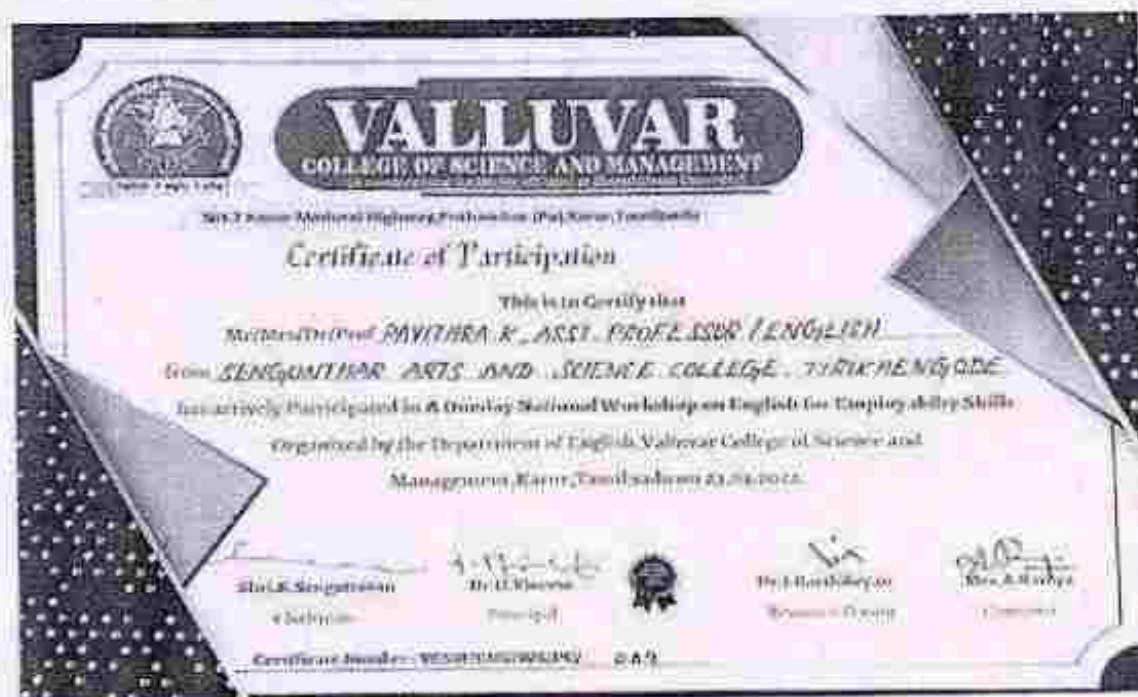
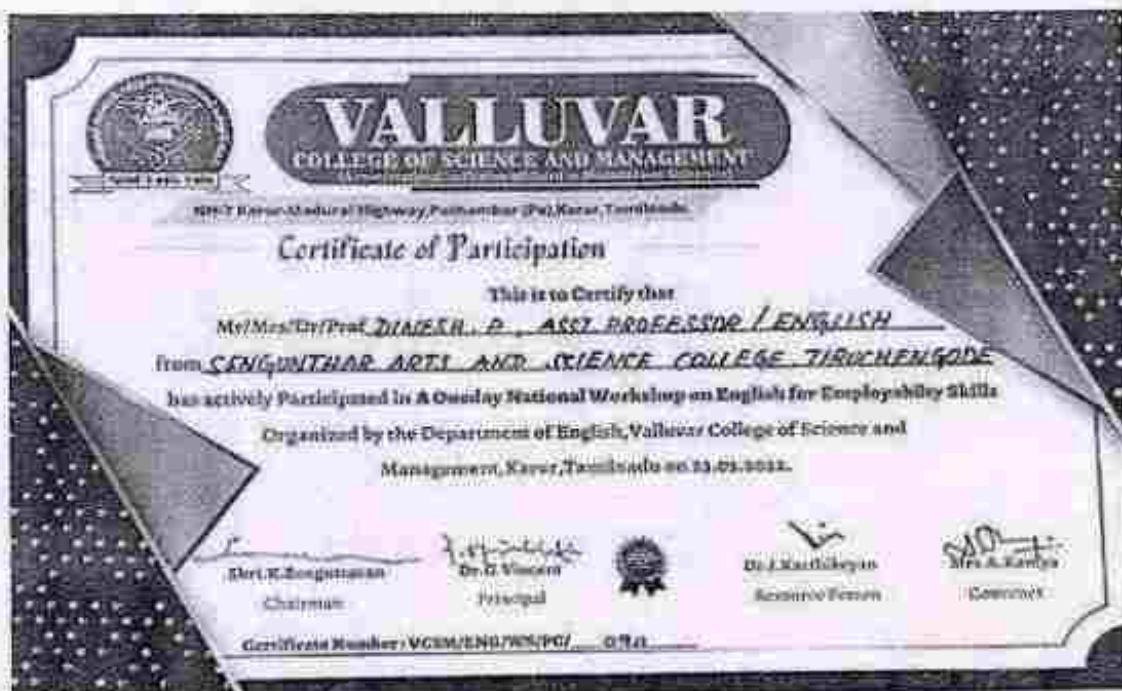
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TIRUCHENGODE – 637205



FACULTY PARTICIPATED IN WEBINARS, WORKSOPS, CONFERENCES

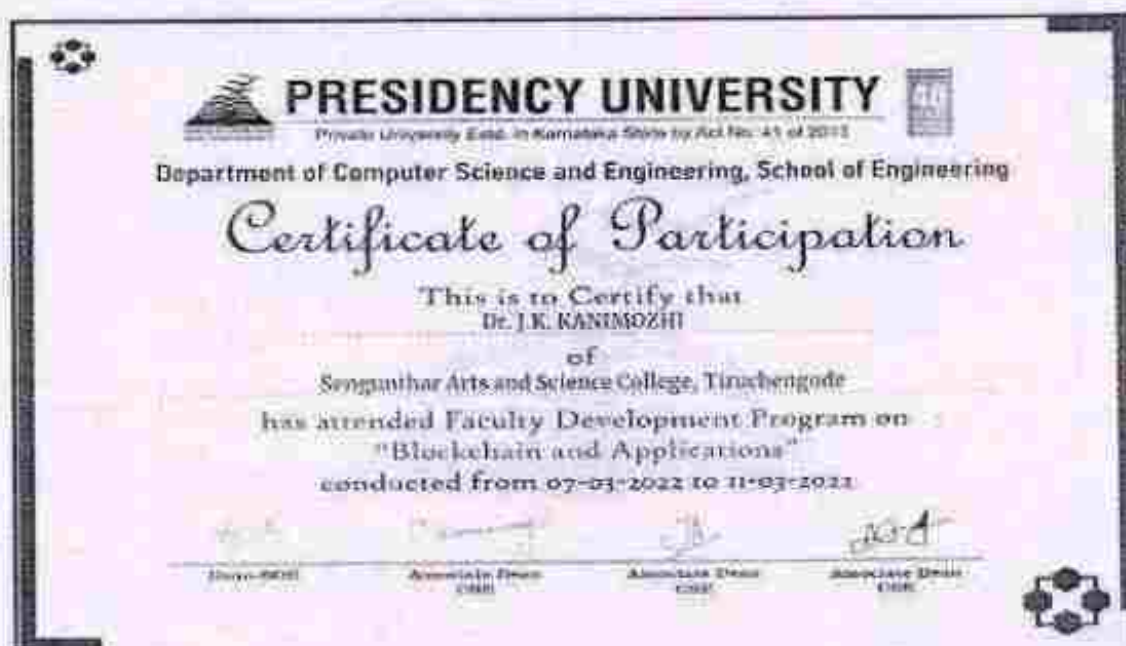
2021-2022

S.NO	NAME OF THE STAFF	TITLE	DEPARTMENT
1.	Dr.P.ASHOKKUMAR	Recent Trends in Biological Sciences	MICROBIOLOGY
2.	Dr.G.DHANASEKARAN	Recent Trends in Entomology	BOTANY
3.	R.U.VIGNESH	Research Methodology	COMMERCE
4.	M.NANDHINI	Project Methodology using MS-WORD & EXCEL	COMMERCE
5.	M.ARUNACHALAM	English for Employability Skills	ENGLISH
5.	Dr.J.K.KANIMOZHI	Block Chain and Applications	PG-COMPUTER SCIENCE
6.	P.SENTHILKUMARAN	Emerging Infectious Diseases & Nanotherapeutics(EIDN)	BIOCHEMISTRY
7.	J.MALLIKA	Laboratory Diagnosis of COVID'19	BIOCHEMISTRY



ATTESTED


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ATTESTED


PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE,
TIRUCHENGODE 637 205.



**SACRED HEART COLLEGE (AUTONOMOUS),
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(Affiliated to Thiruvalluvar University, Vellore)
Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31/4 at 'A+' Grade,
95th College in 2016 - NIRF-2017



**BIOZONE 2021
CERTIFICATE OF PARTICIPATION**

This is to certify that P.SENTHILKUMAR
of Sengunthar Arts and Science College
has actively participated in the Virtual International Conference on "EMERGING INFECTIOUS
DISEASES & NANOTHERAPEUTICS [EIDN]" organized by PG and Research Department of
Biochemistry, Sacred Heart College (Autonomous), Tirupattur, Tirupattur District, Tamil Nadu,
India, held on 30-10-2021.

Organizing Secretaries

1. Dr. I. Niyas Ahamed [PG]
2. Mr. G. Sivaelango [UG]

Conveners

1. Dr. A.C. Gomathi [PG]
ayaprakash [UG]



Principal

[Rev. Dr. D. Maria Antony Raj]

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PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUPATTUR - 637 262

GONZAGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN



CERTIFICATION OF PARTICIPATION

This is certify that J. MALLIKA from Sengunthar arts and science college
 Successfully Participated in the State Level Webinar on "Laboratory diagnosis of
 COVID 19" organised by Department of Biochemistry on 23 October 2021.

S. Sulekha

ORGANIZING PRESIDENT

J. J. J.

HOD

S. M. S. S.

PRINCIPAL

L. S. S.

SECRETARY

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[Signature]

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03.08.02022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. A.ABINAYAKIRUTHIGA of B.com Second Year Student of
Sengunthar Arts and Science College, Salem road Tiruchengode, has successfully completed her
INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022.

I hereby certify her work was excellent to the best of my knowledge and I wish her all the best for
her future endeavours.



For ANITHAA WEAVING MILL (P) LTD

C. C. C. C.
Director

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Phone: 04288 - 274226. E-mail: smpltcd@gmail.com

Ref.No : SMPL/

Date: 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that V.AJAYKUMAR of B.Com II Year Student of
SENGUNTHAR ARTS AND SCIENCE COLLEGE, Tiruchengode completed his
INPLANT TRAINING in our esteemed From 20.07.2022 to 03.08.02022. During the
training his character was good.

For SENGUNTHAR MILLS (P) LTD.


K. RAJASEKARAN
Managing Director

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Date : 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Selvan M.ARUNJAYAPRAKASH of B.Com II Year Student
of Sengunthar Arts and Science College have completed his INPLANT TRAINING
in our concern.

From 20.07.2022 to 03.08.02022.

His conduct is good and was regular in attendance.

We wish to all the success in his future.

Authorized Signatory

SHREE MUTHUKUMARAN SILKS

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Ph: 9489973829

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TIRUCHENGULUR - 617 203.



**PARANTHAMAN
EXPORTERS**
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Ref: - PRD/HR/2019-20/013

TO WHOM SO EVER IT MAY CONCERN

This is to certify that L.BALAJI student of B-B.Com SENGUNTHAR ARTS AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205 has attended INPLANT TRAINING in our concern during the period From 20.07.2022 to 03.08. 2022.

His conduct was good and regular in attendance.

We wish to all the success in his future.

M/S Paranthaman Exporters,

S. Sandhin

HR Department
Place: Perundurai
Date: 03.08.2022



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Ref: - PRD/HR/2019-20/013

TO WHOM EVER IT MAY CONCERN

This is certify that R.BHUVANESHWARI of B.com Second Year Student
Sengunthar Arts and Science College ,Salem road Tiruchengode, Namakkal 637205,
completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022
During the organisation training period her Character was good.

M/S Paranthaman Exporters,

S. Sandhin

HR Department
Place: Perundurai
Date: 03.08.2022



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Website : www.anithaa.com E-mail : info@anithaa.com

03.08.02022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. K.DAKSHA of B.com Second Year Student of Sengunthar Arts and Science College, Salem road Tiruchengode, has successfully completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022.

I hereby certify her work was excellent to the best of my knowledge and I wish her all the best for her future endeavours.



For ANITHAA WEAVING MILL (P) LTD

C. C. C.
Director

ATTESTED

[Signature]

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Date : 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Selvan D.DHANUSHKUMAR of B.Com II Year Student of
Sengunthar Arts and Science College have completed his INPLANT TRAINING in
our concern.

From 20.07.2022 to 03.08.02022.

His conduct is good and was regular in attendance.

We wish to all the success in his future.

Authorized Signatory

SHREE MUTHUKUMARAN SILKS

3/148, Kakapalayam Main Road,
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CIN : L21012TN2000DPL0000354

03.08.2022

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TO WHOM SO EVER IT MAY CONCERN

This is to certify that **MDHARMASEELAN** student of **B.Com**
SENGUNTHAR ARTS AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt -
637205 has attended **INPLANT TRAINING** in our concern during the period From
20.07.2022 to 03.08.2022.

His conduct was good and regular in attendance.

We wish to all the success in his future.

For Seshasayee Paper and Boards Limited,

K.Ramachandran
Senior Executive (Industrial Relations)

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TO WHOM SO EVER IT MAY CONCERN

This is to certify that **S.DINESHKUMAR** student of **II-B.Com SENGUNTHAR ARTS AND SCIENCE COLLEGE**, Tiruchengode, Namakkal Dt - 637205 has attended **INPLANT TRAINING** in our esteemed organisation during the period From **20.07.2022 to 03.08. 2022**.
His conduct and behaviour this period was good.

M/S Paranthaman Exporters,

S. Sandhin

HR Department
Place: Perundurai
Date: 03.08.2022



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TO WHOM EVER IT MAY CONCERN

This is certify that P.DIVYA of B.com Second Year Student Sengunthar Arts and Science College ,Salem road Tiruchengode, Namakkal 637205, completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022 During the organisation training period her Character was good.

M/S Paranthaman Exporters,

S. Sandhin

HR Department
Place: Perundurai
Date: 03.08.2022



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CIN : L21012TN2000DPL0000364

03.08.2022

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This is to certify that D.K KARTHICK student of II B.Com SENGUNTHAR
ARTS AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205 has attended
INPLANT TRAINING in our concern during the period From 20.07.2022 to 03.08. 2022.

His conduct was good and regular in attendance.

We wish to all the success in his future.

For Seshasayee Paper and Boards Limited,

K.Ramachandran
Senior Executive (Industrial Relations)

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VINOTHA FABRICS

Office : 37, Vedyarasampalayam Road, Andikadu, Kumarapalayam T.K., Agraharam P.O.,
PALLIPALAYAM - 638 008, Namakkal D.T., Tamilnadu.

Date: 03.08.2022

TO WHOM EVER IT MAY CONCERN

This is certify that J.GEETHAPRIYA of B.com Second Year Student Sengunthar Arts and Science College, Salem road Tiruchengode, Namakkal 637205, completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.2022 During the organisation training period her Character was good.

For VINOTHA FABRICS


PARTNER

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TO WHOM EVER IT MAY CONCERN

This is certify that V.GOMATHI of B.com Second Year Student Sengunthar Arts and Science College ,Salem road Tiruchengode, Namakkal 637205, completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022 During the organisation training period her Character was good.

M/S Paranthaman Exporters,

S. Sandhin

HR Department
Place: Perundurai
Date: 03.08.2022



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Elampillai Po, Salem Dt, Pin - 637 502.

Date : 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Selvan L.GOWRISANKAR of B.Com II Year Student of
Sengunthar Arts and Science College have completed his INPLANT TRAINING
in our concern.

From 20.07.2022 to 03.08.2022.

His conduct is good and was regular in attendance.

We wish to all the success in his future.

Authorized Signatory

SHREE MUTHUKUMARAN SILKS

3/148, Kakapalayam Main Road,
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ELAMPILLAI PO, SALEM DT, PIN - 637 502

Perumagoundampatty.

Elampillai.

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Ref.No : SMPL/

Date: 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that R.GOWTHAM of B.Com II Year Student of
SENGUNTHAR ARTS AND SCIENCE COLLEGE, Tiruchengode completed his
INPLANT TRAINING in our esteemed From 20.07.2022 to 03.08.02022. During
the training his character was good.

For SENGUNTHAR MILLS (P) LTD.


K. RAJASEKARAN
Managing Director

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03.08.02022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. S.GUNASRI of B.com Second Year Student of Sengunthar Arts and Science College, Salem road Tiruchengode, has successfully completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022.

I hereby certify her work was excellent to the best of my knowledge and I wish her all the best for her future endeavours.



For ANITHAA WEAVING MILL (P) LTD

C. C. C. C.
Director

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CIN : L21012TN1980PL0000354

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TO WHOM SO EVER IT MAY CONCERN

This is to certify that S.HARISH student of B.B.Com SENGUNTHAR ARTS
AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205 has attended
INPLANT TRAINING in our concern during the period From 20.07.2022 to
03.08.02022.

His conduct was good and regular in attendance.

We wish to all the success in his future.

For Seshasayee Paper and Boards Limited,

K.Ramachandran
Senior Executive (Industrial Relations)

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**PARANTHAMAN
EXPORTERS**
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TO WHOM SO EVER IT MAY CONCERN

This is to certify that **M.HARISHKUMAR** student of **II-B.Com SENGUNTHAR
ARTS AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205** has attended
INPLANT TRAINING in our esteemed organisation during the period From **20.07.2022**
to **03.08. 2022,**

His conduct and behaviour this period was good.

M/S Paranthaman Exporters,

S. Sandhin

HR Department
Place: Perundurai
Date: 03.08.2022



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CRITERION 1 – CURRICULAR ASPECTS

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

STUDENT FEEDBACK

(2021-2022)



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TIRUCHENGODE - 637 205



STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE						
This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.						
Name : M. Sunmathi		Roll No.: 20B738				
Year of Study : U.B.Sc Microbiology						
Department : Microbiology						
Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement			✓		
2	The institution follows Outcome Based Education (OBE)			✓		
3	The institution implements Choice Based Credit Systems (CBCS)	✓				
4	The institution provides special training for slow learners and motivates fast learners with care		✓	✓		
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.			✓		
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.	✓				
7	The institution possess green and clean environment of learning.		✓			
8	Value Added Courses (VAC) are taught for skill developments.			✓		
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.		✓			
12	The library has good learning, and smooth accessibility.		✓			
13	Appropriate teaching and learning process is followed for better academic performance.	✓				
14	Common rooms are available for boys and girls with adequate facility.		✓			
15	Proper maintenance of campus and academic infrastructure is done.		✓	✓		
Any suggestions: Provide non major subject for learning						

Place : Tiruchengode

Date : 02.08.22

Signature of the Student

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Since 1991



STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE						
This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.						
Name : <u>R.Vinai</u>		Roll No: <u>21M2712</u>				
Year of Study : <u>2021</u>						
Department : <u>mathematics</u>						
Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement.	✓				
2	The Institution follows Outcome Based Education (OBE)		✓			
3	The Institution implements Choice Based Credit Systems (CBCS)	✓				
4	The Institution provides special training for slow learners and motivates fast learners with care.		✓			
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.	✓				
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.	✓				
8	Value Added Courses (VAC) are taught for skill developments.	✓				
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.		✓			
12	The library has good learning, and smooth accessibility.	✓				
13	Appropriate teaching and learning process is followed for better academic performance.		✓			
14	Common rooms are available for boys and girls with adequate facility.	✓				
15	Proper maintenance of campus and academic infrastructure is done.		✓			
Any suggestions: <u>Apptitude class will be provided</u>						

Place: Thiruchengode

Date: 2-8-22

ATTESTED


 SENGUNTHAR ARTS AND SCIENCE COLLEGE
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Signature of the Student





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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : P. A. ASWIN

Roll No.: DIBA202

Year of Study : II B. AN - A

Department : COMMERCE

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement	✓				
2	The Institution follows Outcome Based Education (OBE)	✓				
3	The Institution implements Choice Based Credit Systems (CBCS)	✓				
4	The Institution provides special training for slow learners and motivates fast learners with care.		✓			
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.			✓		
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.	✓				
8	Value Added Courses (VAC) are taught for skill developments.		✓			
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.			✓		
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.		✓			
12	The library has good learning, and smooth accessibility.			✓		
13	Appropriate teaching and learning process is followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.		✓			
15	Proper maintenance of campus and academic infrastructure is done.			✓		

Any suggestions:

Please provide smart class room.

P. A. Aswin
Signature of the Student

Place : TIRUCHENGODE

ATTESTED

Date : 31.5.22

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SENGUNTHAR ARTS AND SCIENCE COLLEGE

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An ISO 9001:2015 Certified Institution

Recognised under section 2(f) and 12(B) of the UGC Act 1956 and Accredited by NAAC

TIRUCHENGODE - 637 205

Since 1991



STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE						
This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.						
Name : <u>THARANI R</u>						
Designation : <u>STUDENT</u>						
Organization : <u>Computer Science</u>						
Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement		✓			
2	The Institution follows Outcome Based Education (OBE)			✓		
3	The Institution implements Choice Based Credit Systems (CBCS)		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.		✓			
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.		✓			
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.	✓				
8	Value Added Courses (VAC) are taught for skill developments.		✓			
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.		✓			
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.			✓		
12	The library has good learning, and smooth accessibility.		✓			
13	Appropriate teaching and learning process is followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.		✓			
15	Proper maintenance of campus and academic infrastructure is done.		✓			
Any suggestions: <u>need more practical sessions.</u>						

Place : Tiruchengode

Date : 30/5/2022

Signature of the STUDENT

ATTESTED


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TIRUCHENGODE - 637 205



STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : S. Devipriya

Roll No.: 21MA16

Year of Study : I MCA

Department : PG-Computer Science

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
	Whether					
1	The curriculum and syllabi are at par with the industry requirement	✓				
2	The Institution follows Outcome Based Education (OBE)		✓			
3	The Institution implements Choice Based Credit Systems (CBCS)			✓		
4	The Institution provides special training for slow learners and motivates fast learners with care.	✓				
5	Students are motivated to register and learn through Swayam portal lectures and LCD projectors.		✓			
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.			✓		
8	Value Added Courses (VAC) are taught for skill developments.			✓		
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.	✓				
12	The library has good learning, and smooth accessibility.		✓			
13	Appropriate teaching and learning process is followed for better academic performance.		✓			
14	Common rooms are available for boys and girls with adequate facility.			✓		
15	Proper maintenance of campus and academic infrastructure is done.	✓				

Any suggestions: Systems are not working properly. Please consider it.

S. Devipriya

Signature of the Student

Place : Tiruchengode

Date : 02.08.22

ATTESTED

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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : M. Jayaprakash

Roll No: 21M906

Year of Study: I MCA

Department : PG - Computer Science

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement.		✓			
2	The Institution follows Outcome Based Education (OBE).			✓		
3	The Institution implements Choice Based Credit Systems (CBCS).		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.			✓		
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.	✓				
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.			✓		
8	Value Added Courses (VAC) are taught for skill developments.			✓		
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.	✓				
12	The library has good learning, and smooth accessibility.		✓			
13	Appropriate teaching and learning process is followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.			✓		
15	Proper maintenance of campus and academic infrastructure is done.		✓			
Any suggestions: extracurricular activities are needed						

Place: Tiruchengode

Date: 30.05.2022

M. Jayaprakash

Signature of the Student

ATTESTED

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205



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Since 1991



STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : V. Shobana

Roll No: 2062609

Year of Study : II - Year

Department : English

SL No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement.	✓				
2	The Institution follows Outcome Based Education (OBE)			✓		
3	The Institution implements Choice Based Credit Systems (CBCS)		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.			✓		
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.			✓		
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.	✓				
7	The Institution possess green and clean environment of learning.		✓			
8	Value Added Courses (VAC) are taught for skill developments.			✓		
9	The laboratories are equipped with necessary software and hardware.			✓		
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.			✓		
12	The library has good learning, and smooth accessibility.	✓				
13	Appropriate teaching and learning process is followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.			✓		
15	Proper maintenance of campus and academic infrastructure is done.		✓			
Any suggestions: Good.						

Signature of the Student

Place : Tiruchengode

Date : 27.05.2022

ATTESTED

Principal
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205



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TIRUCHENGODE - 637 205



STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE						
This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.						
Name : <u>R. KAVIYA</u>			Roll No: <u>1982027</u>			
Year of Study : <u>II - YEAR</u>						
Department : <u>CHEMISTRY</u>						
Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement	✓				
2	The Institution follows Outcome Based Education (OBE)	✓				
3	The Institution implements Choice Based Credit Systems (CBCS)		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.	✓				
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.		✓			
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.	✓				
7	The Institution possess green and clean environment of learning.	✓				
8	Value Added Courses (VAC) are taught for skill developments.	✓				
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.		✓			
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.	✓				
12	The library has good learning, and smooth accessibility.	✓				
13	Appropriate teaching and learning process is followed for better academic performance.		✓			
14	Common rooms are available for boys and girls with adequate facility.	✓				
15	Proper maintenance of campus and academic infrastructure is done.	✓				
Any suggestions: <u>Proper cleaning is important</u>						

R. Kaviya
Signature of the Student

Place : Tiruchengode

Date : 04/05/2022

ATTESTED

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205



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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE						
This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.						
Name : <u>Kegothirani</u>		Roll No: <u>21m1608</u>				
Year of Study : <u>2021-2022</u>						
Department : <u>M. COM (U)</u>						
Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement		✓			
2	The Institution follows Outcome Based Education (OBE)			✓		
3	The Institution implements Choice Based Credit System (CBCS)		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.			✓		
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.	✓				
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.		✓			
8	Value Added Courses (VAC) are taught for skill developments.					
9	The laboratories are equipped with necessary software and hardware.			✓		
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.		✓			
12	The library has good learning, and smooth accessibility.	✓				
13	Appropriate teaching and learning process is followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.			✓		
15	Proper maintenance of campus and academic infrastructure is done.		✓			
Any suggestions: <u>—</u>						

Place : Tiruchengode

Date : 02.08.2022

K. Jothu
Signature of the Student

ATTESTED

[Signature]
Principal
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205



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TIRUCHENGODE - 637 205



STUDENT FEEDBACK ANALYSIS REPORT (2021-2022)

S. NO	Parameters	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement	590	342	260	8	7
2	The Institution follows Outcome Based Education (OBE)	541	325	281	56	4
3	The Institution implements Choice Based Credit Systems (CBCS)	557	445	187	18	0
4	The Institution provides special training for slow learners and motivates fast learners with care.	582	409	201	13	2
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.	576	370	216	45	0
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.	557	339	277	32	2
7	The Institution possess green and clean environment of learning.	652	305	233	10	7
8	Value Added Courses (VAC) are taught for skill developments.	597	385	204	14	7
9	The laboratories are equipped with necessary software and hardware.	551	360	263	27	6
10	The Institution makes use of any Learning Management System.	510	302	250	138	7
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.	562	419	206	16	4
12	The library has good learning, and smooth accessibility.	517	412	250	24	4
13	Appropriate teaching and learning process is followed for better academic performance.	555	364	277	7	4
14	Common rooms are available for boys and girls with adequate facility.	622	305	231	46	3
15	Proper maintenance of campus and academic infrastructure is done.	604	387	185	26	5

ACADEMIC COORDINATOR



ATTESTED

PRINCIPAL

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.

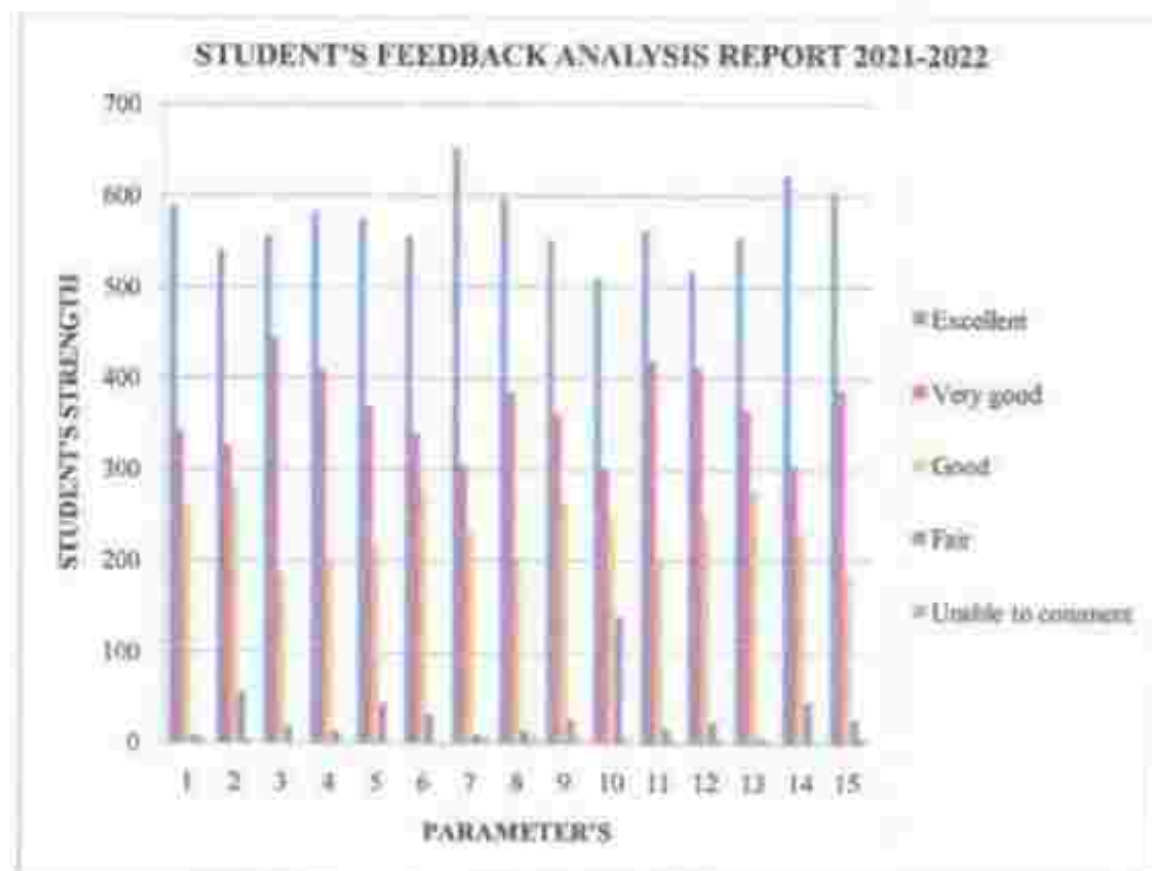
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STUDENT FEEDBACK ANALYSIS REPORT (2021-2022)




 ACADEMIC COORDINATOR




 PRINCIPAL
 SENGUNTHAR ARTS AND SCIENCE COLLEGE
 TIRUCHENGODE - 637 205.

ATTESTED

 PRINCIPAL
 SENGUNTHAR ARTS AND SCIENCE COLLEGE
 TIRUCHENGODE - 637 205.

ANITHAA WEAVING MILL (P) LTD.,

145-F6, Dr. T.G.N. Complex, West Car Street,
TIRUCHENGODU-637 211. Namakkal Dt.

Website : www.anithaa.com E-mail : info@anithaa.com

03.08.02022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. A.ABINAYAKIRUTHIGA of B.com Second Year Student of
Sengunthar Arts and Science College ,Salem road Tiruchengode, has successfully completed her
INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022.

I hereby certify her work was excellent to the best of my knowledge and I wish her all the best for
her future endeavours.



For ANITHAA WEAVING MILL (P) LTD

C. Arana
Director

ATTESTED

[Signature]

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.



SENGUNTHAR MILLS (P) LTD.,

Phone: 04288 - 274226. E-mail: smpltcd@gmail.com

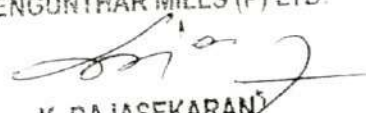
Ref.No : SMPL/

Date: 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that V.AJAYKUMAR of B.Com II Year Student of
SENGUNTHAR ARTS AND SCIENCE COLLEGE, Tiruchengode completed his
INPLANT TRAINING in our esteemed From 20.07.2022 to 03.08.02022. During the
training his character was good.

For SENGUNTHAR MILLS (P) LTD.


K. RAJASEKARAN
Managing Director.

ATTESTED


PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.

Mills at: 194/1, Pallipalayam Road, Varapalayam, THOKKAVADI - 637 215. Tiruchengode Tk, (Namakkal Dt.)

GSTIN :33AACCS9446B1ZJ CIN No.: U17111TZ1980PTC000928.



SHREE MUTHUKUMARAN SILKS

Mfs. of Art Silk Sarees & Fancy Materials

3/148, Kakapalayam Main Road, Perumagoundampatty,
Elampillai Po, Salem Dt, Pin - 637 502.

Date : 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

**This is to certify that Selvan M.ARUNJAYAPRAKASH of B.Com II Year Student
of Sengunthar Arts and Science College have completed his INPLANT TRAINING
in our concern.**

From 20.07.2022 to 03.08.02022.

His conduct is good and was regular in attendance.

We wish to all the success in his future.

Authorized Signatory

SHREE MUTHUKUMARAN SILKS

3/148, Kakapalayam Main Road,
Perumagoundampatty,
Elampillai Po, Salem Dt, Pin - 637 502

Perumagoundampatty,

Elampillai.

Ph: 9489973829

ATTESTED

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.



**Seshasayee
Paper and
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Erode - 638 007, Tamilnadu, India, Ph : 91 - 4288 - 240221 to 240228
Fax: 91 - 4288 - 240229 email : edoff@spbltd.com Web : www.spbltd.com
CIN : L21012TZ1960PLC000364

03.08.02022

Pers/SPB

TO WHOM SO EVER IT MAY CONCERN

This is to certify that S.ARUNPRASANTH student of II-B.Com SENGUNTHAR
ARTS AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205 has
attended INPLANT TRAINING in our concern during the period From 20.07.2022 to
03.08.02022.

His conduct was good and regular in attendance.

We wish to all the success in his future.

For Seshasayee Paper and Boards Limited,

K.Ramachandran
Senior Executive (Industrial Relations)

ATTESTED

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.





**PARANTHAMAN
EXPORTERS**
GOOD TO DRILL

Ref: - PRD/HR/2019-20/013

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **L.BALAJI** student of **II-B.Com SENGUNTHAR ARTS AND SCIENCE COLLEGE**, Tiruchengode, Namakkal Dt - 637205 has attended **INPLANT TRAINING** in our concern during the period From **20.07.2022 to 03.08. 2022.**

His conduct was good and regular in attendance.

We wish to all the success in his future.

M/S Paranthaman Exporters,

S. Sandhan

HR Department

Place: Perundurai

Date: 03.08.2022



ATTESTED

[Signature]

**PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.**

PARANTHAMAN EXPORTERS

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Perundurai - 638 052. Tamil Nadu. India.

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GST : 33AAEP01600128



**PARANTHAMAN
EXPORTERS**
GOOD TO DRILL

Ref: - PRD/HR/2019-20/013

TO WHOM EVER IT MAY CONCERN

This is certify that R.BHUVANESHWARI of B.com Second Year Student

Sengunthar Arts and Science College ,Salem road Tiruchengode, Namakkal 637205,

completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022

During the organisation training period her Character was good.

M/S Paranthaman Exporters,

S. Sandhan

HR Department

Place: Perundurai

Date: 03.08.2022



ATTESTED

[Signature]

**PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.**

PARANTHAMAN EXPORTERS

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+ 91- 4294-234484

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GSTIN: 33AAFCA5624G1Z0

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U17115TZ2005PTC012266

Phone : 04288-256699
Tel/Fax : 04288-285499
Mobile : 98652-98899

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TIRUCHENGODU-637 211. Namakkal Dt.

Website : www.anithaa.com E-mail : info@anithaa.com

03.08.02022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. K.DAKSHA of B.com Second Year Student of Sengunthar Arts and Science College ,Salem road Tiruchengode, has successfully completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022.

I hereby certify her work was excellent to the best of my knowledge and I wish her all the best for her future endeavours.



For ANITHAA WEAVING MILL (P) LTD

C. Arana
Director

ATTESTED

[Signature]

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.



SHREE MUTHUKUMARAN SILKS

Mfs. of Art Silk Sarees & Fancy Materials

3/148, Kakapalayam Main Road, Perumagoundampatty,
Elampillai Po, Salem Dt, Pin - 637 502.

Date : 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Selvan D.DHANUSHKUMAR of B.Com II Year Student of
Sengunthar Arts and Science College have completed his INPLANT TRAINING in
our concern.

From 20.07.2022 to 03.08.02022.

His conduct is good and was regular in attendance.

We wish to all the success in his future.

Authorized Signatory

SHREE MUTHUKUMARAN SILKS

3/148, Kakapalayam Main Road,
Perumagoundampatty,
Elampillai Po, Salem Dt, Pin - 637 502

Perumagoundampatty,

Elampillai.

Ph: 9489973829

ATTESTED

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.



**Seshasayee
Paper and
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Regd Office & Works : Pallipalayam, Namakkal District.
Erode - 638 007, Tamilnadu, India, Ph : 91 - 4288 - 240221 to 240228
Fax: 91 - 4288 - 240229 email : edoff@spbltd.com Web : www.spbltd.com
CIN : L21012TZ1960PLC000364

03.08.02022

Pers/SPB

TO WHOM SO EVER IT MAY CONCERN

This is to certify that M.DHARMASEELAN student of II-B.Com
SENGUNTHAR ARTS AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt -
637205 has attended INPLANT TRAINING in our concern during the period From
20.07.2022 to 03.08.02022.

His conduct was good and regular in attendance.

We wish to all the success in his future.

For Seshasayee Paper and Boards Limited,

K.Ramachandran
Senior Executive (Industrial Relations)

ATTESTED

PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.





**PARANTHAMAN
EXPORTERS**
GOOD TO DRILL

Ref: - PRD/HR/2019-20/013

TO WHOM SO EVER IT MAY CONCERN

**This is to certify that S.DINESHKUMAR student of II-B.Com SENGUNTHAR ARTS
AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205 has attended INPLANT
TRAINING in our esteemed organisation during the period From 20.07.2022 to 03.08. 2022.**

His conduct and behaviour this period was good.

M/S Paranthaman Exporters,

S. Sandhan

HR Department
Place: Perundurai
Date: 03.08.2022



ATTESTED

[Signature]

**PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.**

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**PARANTHAMAN
EXPORTERS**
GOOD TO DRILL

Ref: - PRD/HR/2019-20/013

TO WHOM EVER IT MAY CONCERN

**This is certify that P.DIVYA of B.com Second Year Student Sengunthar Arts and
Science College ,Salem road Tiruchengode, Namakkal 637205, completed her INPLANT
TRAINING in our organisation From 20.07.2022 to 03.08.02022 During the organisation
training period her Character was good.**

M/S Paranthaman Exporters,

S. Sandhya

**HR Department
Place: Perundurai
Date: 03.08.2022**



ATTESTED

[Signature]
PRINCIPAL

**SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.**

PARANTHAMAN EXPORTERS

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Fax: 91 - 4288 - 240229 email : edoff@spbltd.com Web : www.spbltd.com
CIN : L21012TZ1960PLC000364

03.08.02022

Pers/SPB

TO WHOM SO EVER IT MAY CONCERN

**This is to certify that D.K KARTHICK student of II-B.Com SENGUNTHAR
ARTS AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205 has attended
INPLANT TRAINING in our concern during the period From 20.07.2022 to 03.08. 2022.**

His conduct was good and regular in attendance.

We wish to all the success in his future.

For Seshasayee Paper and Boards Limited,

**K.Ramachandran
Senior Executive (Industrial Relations)**

ATTESTED

**PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.**





VINOTHA FABRICS

Office : 37, Vedyarasampalayam Road, Andikadu, Kumarapalayam T.K., Agraharam P.O.,
PALLIPALAYAM - 638 008. Namakkal D.T., Tamilnadu.

Date. 03.08.02022

TO WHOM EVER IT MAY CONCERN

This is certify that J.GEETHAPRIYA of B.com Second Year Student Sengunthar Arts and Science College ,Salem road Tiruchengode, Namakkal 637205, completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022 During the organisation training period her Character was good.

For VINOTHA FABRICS


PARTNER

ATTESTED


PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.



**PARANTHAMAN
EXPORTERS**
GOOD TO DRILL

Ref: - PRD/HR/2019-20/013

TO WHOM EVER IT MAY CONCERN

This is certify that V.GOMATHI of B.com Second Year Student Sengunthar Arts and Science College ,Salem road Tiruchengode, Namakkal 637205, completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.02022 During the organisation training period her Character was good.

M/S Paranthaman Exporters,

S. Sandhan

HR Department

Place: Perundurai

Date: 03.08.2022



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[Signature]

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Elampillai Po, Salem Dt, Pin - 637 502.

Date : 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

**This is to certify that Selvan L.GOWRISANKAR of B.Com II Year Student of
Sengunthar Arts and Science College have completed his INPLANT TRAINING
in our concern.**

From 20.07.2022 to 03.08.02022.

His conduct is good and was regular in attendance.

We wish to all the success in his future.

Authorized Signatory

SHREE MUTHUKUMARAN SILKS

3/148, Kakapalayam Main Road,
Perumagoundampatty,
Elampillai Po, Salem Dt, Pin - 637 502

Perumagoundampatty,

Elampillai.

Ph: 9489973829

ATTESTED

**PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.**



SENGUNTHAR MILLS (P) LTD.,

Phone: 04288 - 274226. E-mail: smpltcd@gmail.com

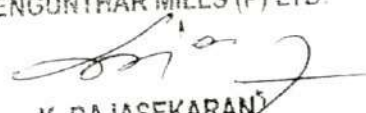
Ref.No : SMPL/

Date: 03.08.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that R.GOWTHAM of B.Com II Year Student of
SENGUNTHAR ARTS AND SCIENCE COLLEGE, Tiruchengode completed his
INPLANT TRAINING in our esteemed From 20.07.2022 to 03.08.02022. During
the training his character was good.

For SENGUNTHAR MILLS (P) LTD.


K. RAJASEKARAN
Managing Director.

ATTESTED


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TIRUCHENGODE - 637 205.

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GSTIN: 33AAFCA5624G1Z0

CIN.No.
U17115TZ2005PTC012266

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Tel/Fax : 04288-285499
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ANITHAA WEAVING MILL (P) LTD.,

145-F6, Dr. T.G.N. Complex, West Car Street,
TIRUCHENGODU-637 211. Namakkal Dt.
Website : www.anithaa.com E-mail : info@anithaa.com

03.08.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. S.GUNASRI of B.com Second Year Student of Sengunthar Arts and Science College ,Salem road Tiruchengode, has successfully completed her INPLANT TRAINING in our organisation From 20.07.2022 to 03.08.2022.

I hereby certify her work was excellent to the best of my knowledge and I wish her all the best for her future endeavours.



For ANITHAA WEAVING MILL (P) LTD

C. Arana
Director

ATTESTED

[Signature]

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CIN : L21012TZ1960PLC000364

03.08.02022

Pers/SPB

TO WHOM SO EVER IT MAY CONCERN

**This is to certify that S.HARISH student of II-B.Com SENGUNTHAR ARTS
AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205 has attended
INPLANT TRAINING in our concern during the period From 20.07.2022 to
03.08.02022.**

His conduct was good and regular in attendance.

We wish to all the success in his future.

For Seshasayee Paper and Boards Limited,

**K.Ramachandran
Senior Executive (Industrial Relations)**

ATTESTED

**PRINCIPAL
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TIRUCHENGODE - 637 205.**





**PARANTHAMAN
EXPORTERS**
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Ref: - PRD/HR/2019-20/013

TO WHOM SO EVER IT MAY CONCERN

**This is to certify that M.HARISHKUMAR student of II-B.Com SENGUNTHAR
ARTS AND SCIENCE COLLEGE, Tiruchengode, Namakkal Dt - 637205 has attended
INPLANT TRAINING in our esteemed organisation during the period From 20.07.2022
to 03.08. 2022.**

His conduct and behaviour this period was good.

M/S Paranthaman Exporters,

S. Sandhya

HR Department
Place: Perundurai
Date: 03.08.2022



ATTESTED

[Signature]
PRINCIPAL

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CRITERION 1 – CURRICULAR ASPECTS

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

STUDENT FEEDBACK

(2021-2022)



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Since 1991



STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : M. Sunmathi

Roll No.: 20B738

Year of Study: II. B.Sc Microbiology

Department : Microbiology

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
	Whether					
1	The curriculum and syllabi are at par with the industry requirement			✓		
2	The Institution follows Outcome Based Education (OBE)			✓		
3	The Institution implements Choice Based Credit Systems (CBCS)	✓				
4	The Institution provides special training for slow learners and motivates fast learners with care.		✓	✓		
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.			✓		
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.	✓				
7	The Institution possess green and clean environment of learning.		✓			
8	Value Added Courses (VAC) are taught for skill developments.			✓		
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.		✓			
12	The library has good learning, and smooth accessibility.		✓			
13	Appropriate teaching and learning process in followed for better academic performance.	✓				
14	Common rooms are available for boys and girls with adequate facility.		✓			
15	Proper maintenance of campus and academic infrastructure is done.		✓	✓		

Any suggestions:

Provide non major subject for learning

Place: Tiruchengode

Date: 02.08.22

Signature of the Student

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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : P. Vinci

Roll No.: 21M2712

Year of Study : 2021 I

Department : mathematics

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
	Whether					
1	The curriculum and syllabi are at par with the industry requirement	✓				
2	The Institution follows Outcome Based Education (OBE)		✓			
3	The Institution implements Choice Based Credit Systems (CBCS)	✓				
4	The Institution provides special training for slow learners and motivates fast learners with care.		✓			
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.	✓				
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.	✓				
8	Value Added Courses (VAC) are taught for skill developments.	✓				
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.		✓			
12	The library has good learning, and smooth accessibility.	✓				
13	Appropriate teaching and learning process in followed for better academic performance.		✓			
14	Common rooms are available for boys and girls with adequate facility.	✓				
15	Proper maintenance of campus and academic infrastructure is done.		✓			
Any suggestions: <u>Apptitude class will be provided</u>						

Place : Thiruchengode

Date : 2.8.22

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SENGUNTHAR ARTS AND SCIENCE COLLEGE
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Signature of the Student



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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE						
This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.						
Name : P. A. ASWIN		Roll No.: 21BA202				
Year of Study : II B. com - A						
Department : Commerce						
Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement	✓				
2	The Institution follows Outcome Based Education (OBE)	✓				
3	The Institution implements Choice Based Credit Systems (CBCS)	✓				
4	The Institution provides special training for slow learners and motivates fast learners with care.		✓			
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.			✓		
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.	✓				
8	Value Added Courses (VAC) are taught for skill developments.		✓			
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.			✓		
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.		✓			
12	The library has good learning, and smooth accessibility.			✓		
13	Appropriate teaching and learning process in followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.		✓			
15	Proper maintenance of campus and academic infrastructure is done.			✓		
Any suggestions: Please provide smart class rooms.						

P. A. Aswin
Signature of the Student

Place : TIRUCHENGODE

Date : 31.5.22

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Since 1991



STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE						
This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.						
Name : <u>THARANI R</u>						
Designation : <u>STUDENT</u>						
Organization : <u>Computer Science</u>						
Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement		✓			
2	The Institution follows Outcome Based Education (OBE)			✓		
3	The Institution implements Choice Based Credit Systems (CBCS)		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.		✓			
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.		✓			
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.	✓				
8	Value Added Courses (VAC) are taught for skill developments.		✓			
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.		✓			
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.			✓		
12	The library has good learning, and smooth accessibility.		✓			
13	Appropriate teaching and learning process in followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.		✓			
15	Proper maintenance of campus and academic infrastructure is done.		✓			
Any suggestions: <u>need more practical sessions.</u>						

Place : Tiruchengode

Date : 30/5/2022

Signature of the STUDENT

ATTESTED

[Signature]
PRINCIPAL
SENGUNTHAR ARTS AND SCIENCE COLLEGE
TIRUCHENGODE - 637 205.



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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : S. Devipriya

Roll No.: 21MA16

Year of Study : I MCA

Department : PG-Computer Science

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
	Whether					
1	The curriculum and syllabi are at par with the industry requirement	✓				
2	The Institution follows Outcome Based Education (OBE)		✓			
3	The Institution implements Choice Based Credit Systems (CBCS)			✓		
4	The Institution provides special training for slow learners and motivates fast learners with care.	✓				
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.		✓			
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.			✓		
8	Value Added Courses (VAC) are taught for skill developments.			✓		
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.	✓				
12	The library has good learning, and smooth accessibility.		✓			
13	Appropriate teaching and learning process in followed for better academic performance.		✓			
14	Common rooms are available for boys and girls with adequate facility.			✓		
15	Proper maintenance of campus and academic infrastructure is done.	✓				

Any suggestions: Systems are not working properly. Please consider it.

S. Devipriya

Signature of the Student

Place : Tiruchengode

Date : 02.08.22

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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : M. Jayaprakash

Roll No.: 21M906

Year of Study : I MCA

Department : PG - Computer Science

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement		✓			
2	The Institution follows Outcome Based Education (OBE)			✓		
3	The Institution implements Choice Based Credit Systems (CBCS)		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.			✓		
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.	✓				
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.		✓			
7	The Institution possess green and clean environment of learning.			✓		
8	Value Added Courses (VAC) are taught for skill developments.			✓		
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.	✓				
12	The library has good learning, and smooth accessibility.		✓			
13	Appropriate teaching and learning process in followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.			✓		
15	Proper maintenance of campus and academic infrastructure is done.		✓			
Any suggestions: extra curricular activities are needed						

Place : Tiruchengode

Date : 30-05-2022

M. Jayaprakash

Signature of the Student

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SENGUNTHAR ARTS AND SCIENCE COLLEGE
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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

This questionnaire is intended to collect information related to your satisfaction towards the academic and ambience. Information collected will be kept confidential and will be used as feedback for quality improvement in teaching & learning and working environment of the Institute.

Name : V. Shobana

Roll No.: 2062609

Year of Study : II - Year

Department : English

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement	✓				
2	The Institution follows Outcome Based Education (OBE)			✓		
3	The Institution implements Choice Based Credit Systems (CBCS)		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.			✓		
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.			✓		
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.	✓				
7	The Institution possess green and clean environment of learning.		✓			
8	Value Added Courses (VAC) are taught for skill developments.			✓		
9	The laboratories are equipped with necessary software and hardware.			✓		
10	The Institution makes use of any Learning Management System.	✓				
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.			✓		
12	The library has good learning, and smooth accessibility.	✓				
13	Appropriate teaching and learning process in followed for better academic performance.			✓		
14	Common rooms are available for boys and girls with adequate facility.			✓		
15	Proper maintenance of campus and academic infrastructure is done.		✓			

Any suggestions: Good.

V. Shobana
Signature of the Student

Place : Tiruchengode

Date : 27.05.2022

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STUDENT FEEDBACK ON ACADEMIC AND AMBIENCE

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Name : R. KAVIYA

Roll No.: 19B2027

Year of Study : III - YEAR

Department : CHEMISTRY

Sl. No.	Statement	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement	✓				
2	The Institution follows Outcome Based Education (OBE)	✓				
3	The Institution implements Choice Based Credit Systems (CBCS)		✓			
4	The Institution provides special training for slow learners and motivates fast learners with care.	✓				
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.		✓			
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.	✓				
7	The Institution possess green and clean environment of learning.	✓				
8	Value Added Courses (VAC) are taught for skill developments.	✓				
9	The laboratories are equipped with necessary software and hardware.		✓			
10	The Institution makes use of any Learning Management System.		✓			
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.	✓				
12	The library has good learning, and smooth accessibility.	✓				
13	Appropriate teaching and learning process in followed for better academic performance.		✓			
14	Common rooms are available for boys and girls with adequate facility.	✓				
15	Proper maintenance of campus and academic infrastructure is done.	✓				

Any suggestions:

Proper cleaning is important

R. Kaviya
Signature of the Student

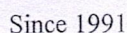
Place : Tiruchengode

Date : 04/05/2022

ATTESTED

[Signature]

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Roll No.: 21m1608

Department : M. Com (U)

Any suggestions:

Date : 02.08.2022.

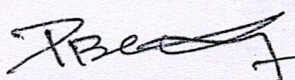
K. John
Signature of the Student

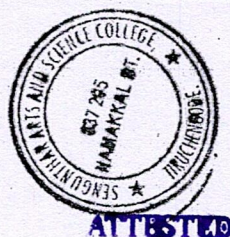
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SUNSHINE ARTS AND SCIENCE COLLEGE
THE CHANGING - 657 205.

STUDENT FEEDBACK ANALYSIS REPORT (2021-2022)

S. NO	Parameters	Excellent	Very good	Good	Fair	Unable to comment
1	The curriculum and syllabi are at par with the industry requirement	590	342	260	8	7
2	The Institution follows Outcome Based Education (OBE)	541	325	281	56	4
3	The Institution implements Choice Based Credit Systems (CBCS)	557	445	187	18	0
4	The Institution provides special training for slow learners and motivates fast learners with care.	582	409	201	13	2
5	Students are motivated to register and learn through Swayam portal lectures, and LCD projectors.	576	370	216	45	0
6	The faculty use ICT supported tools like Google classroom, NPTEL lectures and LCD projectors.	557	339	277	32	2
7	The Institution possess green and clean environment of learning.	652	305	233	10	7
8	Value Added Courses (VAC) are taught for skill developments.	597	385	204	14	7
9	The laboratories are equipped with necessary software and hardware.	551	360	263	27	6
10	The Institution makes use of any Learning Management System.	510	302	250	138	7
11	The classrooms, laboratories, library, and canteen facility are provided with adequate space, and neat and tidy.	562	419	206	16	4
12	The library has good learning, and smooth accessibility.	517	412	250	24	4
13	Appropriate teaching and learning process is followed for better academic performance.	555	364	277	7	4
14	Common rooms are available for boys and girls with adequate facility.	622	305	231	46	3
15	Proper maintenance of campus and academic infrastructure is done.	604	387	185	26	5


ACADEMIC COORDINATOR

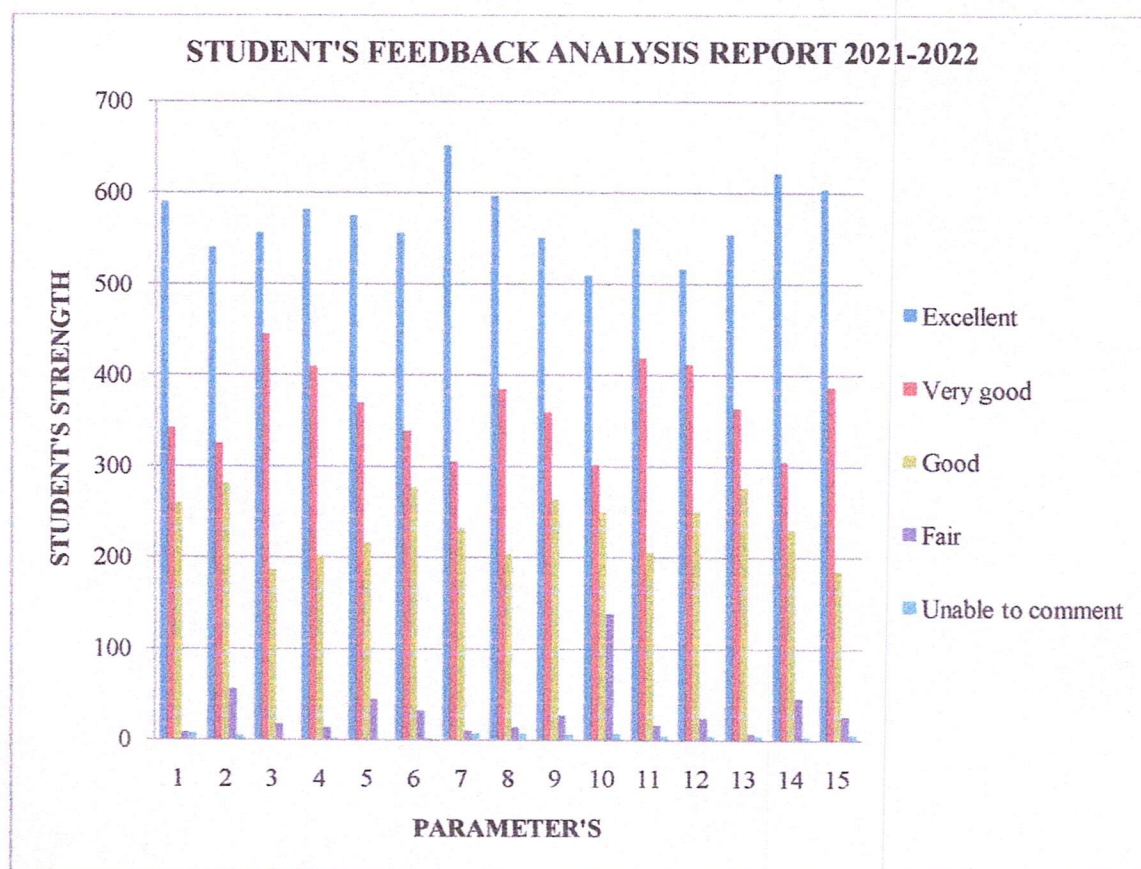


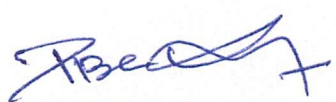

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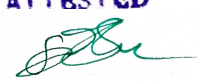
STUDENT FEEDBACK ANALYSIS REPORT (2021-2022)




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