

 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

 21
 Accredited by NAAC

 TIRUCHENGODE – 637 205



Since 1991

CRITERION 1 – CURRICULAR ASPECTS

1.1 Curricular Planning and Implementation



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 TIRUCHENGODE – 637 205, NAMAKKAL DT., TAMILNADU



CRITERION-1 CURRICULAR ASPECTS

1.1 Curricular Planning and Implementation

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பெரியார் பல்கலைக்கழகம் PERIYAR UNIVERSITY



SALEM - 636011, TAMIL NADU, INDIA NAAC A++ Grade - State University - NIRF Rank 73 - ARIIA Rank 10

முனைவர் S.கதிரவன்

தோ்வாணையா் (முசுபொ.)

நாள்: 03-09-2022

எண்.பெ.ப./தே.அ/CRE-V/2022-2023 கல்வியாண்டு/உத்தேசிக்கப்பட்ட கால அட்டவணை/208/2022 பெறுதல்

முதல்வர் அவர்கள்

பெரியார் பல்கலைக்கழக இணைவு பெற்ற[்]கலை மற்றும் அறிவியல் கல்லூரிகள். ஐயா/அம்மையீர்

Bandaran

முதுநிலை பொருள்: தோவாணையர் លេញ់ញាល់ அலுவலகம் இளநிலை பாடப்பிரிவுகளில் பயிலும் 2022-2023 மாணாக்கர்கள் ஆம் கல்வியாண்டிற்கான உத்தேசிக்கப்பட்ட கால அட்டவணை அனுப்புதல் -கொடர்பாக. பார்வை: இவ்வலுவலக குறிப்பாணை நாள்: 01-09-2022. *******

பார்வையில் கண்ட குறிப்பாணையின்படி, பெரியார் பல்கலைக்கழக இணைவு பெற்ற கலை மற்றும் அறிவியல் கல்லூரிகளில் இளறிலை மற்றும் முதுநிலை பாடப்பிரிவுகளில் பயிலும் மாணாக்கர்களின் 2022-2023 ஆம் கல்வியாண்டின் டிசம்பர் 2022 மற்றும் மே 2023 பருவத்தேர்வுகள் தொடர்பாக கீழ்கண்டவாறு உத்தேசிக்கப்பட்ட கால அட்டவணை தங்கள் கல்லூரியின் மின்னஞ்சல் (E-mail) முகவரிக்கு அனுப்பப்பட்டுள்ளது. எனவே. இதனை உரிய துறை மற்றும் மாணாக்கர்களுக்குத் தெரியப்படுத்துமாறு கேட்டுக்கொள்ளப்படுகிறது.

S.No.	டிசம்பர் 2022 பருவத்தேர்வுகள் S.No. Date Particulars		
1.	13-10-2022	Examination Online Application Entry	
2.	20-10-2022	Last Date for submission of Online Applications	
3.	02-11-2022	Commencement of Practical Examinations	
4.	28-11-2022	Last date for Practical Examinations	
5.	02-12-2022	Commencement of Theory Examinations	
6.	29-12-2022	Last date for Theory Examinations	

S.No.	Date	Particulars
1.	13-03-2023	Examination Online Application Entry
2.	20-03-2023	Last Date for submission of Online Applications
3.	27-03-2023	Commencement of Practical Examinations
4.	27-04-2023	Last date for Practical Examinations
5.	03-05-2023	Commencement of Theory Examinations
6.	29-05-2023	Last date for Theory Examinations
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ATTESTED FRENCIPAL SENGUNTHAR APOT AND SCIENCE COLLEGE TIRECHERCOURE 637 AVS.



பெரியார் பல்கலைக்கழகம் PERIYAR UNIVERSITY

SALEM - 636011, TAMIL NADU, INDIA NAAC A++ Grade - State University - NIRF Rank 63 - ARIIA Rank 10

நாள்: 13-01-2023

முனைவர் S.கதிரவன் தோவாணையர் (முகுபொ.)

எண்.பெ.ப./தே.அ/CRE-V/2022-2023 கல்வியாண்டு/உத்தேசிக்கப்பட்ட கால அட்டவணை/217/2023

பெறுதல்

முதல்வர் அவர்கள் பெரியார் பல்கலைக்கழக இணைவு பெற்ற கலை மற்றும் அறிவியல் கல்லூரிகள்.

ஐயா/அம்மையீர்

பொருள்: தேர்வாணையர் அலுவலகம் - இளநிலை மற்றும் முதுநிலை பாடப்பிரிவீகளில் பயிலும் மாணாக்கர்கள் - 2022-2023 ஆம் கல்வியாண்டின் மே/ஜூன் 2023 பருவத்தேர்வுகள் தொடர்பான உத்தேசிக்கப்பட்ட கால அட்டவணை அனுப்புதல் - தொடர்பாக.

பார்வை: இவ்வலுவலக குறிப்பாணை நாள்: 13-01-2023.

பார்வையில் கண்ட குறிப்பாணையின்படி, பெரியார் பல்கலைக்கழக இணைவு பெற்ற கலை மற்றும் அறிவியல் கல்லூரிகளில் இளநிலை மற்றும் முதுநிலை பாடப்பிரிவுகளில் பயிலும் மாணாக்கர்களின் 2022-2023 ஆம் கல்வியாண்டின் மே/ஜுன் 2023 பருவத்தேர்வுகள் தொடர்பாக கீழ்கண்டவாறு உத்தேசிக்கப்பட்ட கால அட்டவணை தங்கள் கல்லூரியின் மின்னஞ்சல் (E-mail) முகவரிக்கு அனுப்பப்பட்டுள்ளது. ഞ്ഞിവേ, இதனை உரிய துறை மற்றும் மாணாக்கர்களுக்குத் தெரியப்படுத்துமாறு கேட்டுக்கொள்ளப்படுகிறது.

S.No.	Date	Particulars	
1.	29-03-2023	Examination Online Application Entry	
2.	05-04-2023	Last Date for submission of Online Exam Applications	
3.	17-04-2023	Commencement of Practical Examinations	
4.	13-05-2023	last date for Practical Examinations	
5.	17-05-2023	ommencement of Theory Examinations	
6.	09-06-2023	Last date for Theory Examinations	

மே/ஜுன் 2023 பருவத்தோவுகள்

The real of the series

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தோவாணையர்

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CALENDER FOR THE ACADEMIC YEAR

2022-2023





ATTESTED PRINCIPAL SENGUNTHAR APDS APID SCIENCE COLLEGE TIRUCHENLOUE 637 205.

3

CALENDAR 2022-2023

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

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

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PRINCIPAL SENGUNTHAR APOS AND SCIENCE COLLEGE TIRUCHENCODE 637 205.

CALENDAR 2022-2023

Day &		Time Table	No. Of Working
Date	JULY	Code	Days
FRI -1		VI	18
SAT –2	HOLIDAY		
SUN - 3	HOLIDAY		
MON - 4		Ι	19
TUE – 5		II	20
WED – 6		III	21
THU -7		IV	22
FRI – 8		v	23
SAT -9	HOLIDAY		
SUN – 10	Holiday - BAKRID		
MON – 11	World Population Day 1 st Monthly Test	VI	24
TUE – 12	1 st Monthly Test	Ι	25
WED – 13	1 st Monthly Test	II	26
THU – 14	1 st Monthly Test	III	27
FRI - 15	1 st Monthly Test	IV	28
		1	

Day		Time	No. Of
&		Table	Working
Date	JULY	Code	Days
SAT – 16	HOLIDAY		
SUN - 17			
	HOLIDAY		
MON - 18			
		V	29
TUE – 19			
		VI	30
WED – 20			
		Ι	31
THU -21			
_		II	32
FRI – 22			
		III	33
SAT – 23			
5AT 25	HOLIDAY		
SUN – 24			
30N - 24	HOLIDAY		
N40NL 25	HOLIDAT		
MON - 25		IV	34
		1 V	34
TUE – 26		N/	25
		V	35
WED – 27		3.71	26
		VI	36
THU -28		-	
		Ι	37
FRI – 29			
		II	38
SAT - 30			
	HOLIDAY		
Sun - 31	HOLIDAY		
		1	
L			1

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PRINCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLOBE 63: 205.

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

Day &		Time Table	No. Of Working
Date	AUGUST	Code	Days
			- 1 -
TUE – 16		VI	48
WED –17		Ι	49
THU – 18		II	50
FRI -19	HOLIDAY – Krishna Jayanthi		
SAT – 20	HOLIDAY		
SUN - 21	HOLIDAY		
MON - 22	II Monthly Test	III	51
TUE – 23	II Monthly Test	IV	52
WED – 24	II Monthly Test	v	53
THU -25	II Monthly Test	VI	54
FRI – 26	II Monthly Test	Ι	55
SAT – 27	HOLIDAY		
SUN - 28	HOLIDAY		
Mon- 29	National Sports Day	II	56
TUE - 30		III	57
WED - 31	Holiday – Vinayakar Chaturthi		

ATTESTED

PRINCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLODE 637 205.

CALENDAR 2022- 2023

Day		Time	No. Of
&		Table	Working
Date	SEPTEMBER	Code	Days
THU - 1		IV	58
FRI -2		V	59
SAT –3		VI	60
SUN - 4	HOLIDAY		
MON -5	HOLIDAY - Teacher's Day		
TUE – 6		Ι	61
WED –7		II	62
THU -8		III	63
FRI – 9	பௌா்ணமி கவியரங்கம்	IV	64
SAT -10		V	65
SUN – 11	HOLIDAY		
MON – 12	HOLIDAY		
TUE – 13		VI	66
WED – 14		Ι	67
THU - 15		II	68

Day & Date	SEPTEMBER	Time Table Code	No. Of Working
Date	SEPTEWBER	Code	Days
FRI -16		III	69
SAT – 17	HOLIDAY		
SUN - 18	HOLIDAY		
MON - 19		IV	70
TUE – 20		V	71
WED – 21		VI	72
THU -22		I	73
FRI – 23		II	74
SAT – 24	HOLIDAY		, ,
SUN - 25	HOLIDAY		
MON - 26	III Monthly Test	III	75
TUE – 27	III Monthly Test	IV	76
WED – 28	III Monthly Test	V	77
`THU -29	III Monthly Test	VI	78
FRI - 30	III Monthly Test	I	79

ATTESTED PRINCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLODE 637 205.

CALENDAR 2022- 2023

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

Day &		Time Table	No. Of Working
Date	OCTOBER	Code	Days
2410	001051		Dayo
SUN – 16	HOLIDAY		
MON – 17	Model Examination	IV	88
TUE – 18	Model Examination	v	89
WED – 19	Model Examination	VI	90
THU – 20	Model Examination	Ι	91
FRI -21	Model Examination	II	92
SAT – 22	HOLIDAY		
SUN - 23	HOLIDAY		
MON - 24	Holiday - Deepawali		
TUE – 25		III	93
WED – 26		IV	94
THU -27		V	95
FRI – 28		VI	96
SAT – 29	HOLIDAY		
SUN - 30	HOLIDAY		
MON - 31		Ι	97
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PRINCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLUISE 63: 205.

8	ay & ate	NOVEMBER	Time Table Code	No. Of Working
		NOVEWIBER	Code	Days
TUE	- 1		II	98
WED	- 2		III	99
THU	-3		IV	100
FRI	-4			
SAT	-5	HOLIDAY		
SUN	- 6	HOLIDAY		
MON	- 7			
TUE	- 8			
WED	- 9	Commencement of University Theory Examination		
THU	-10			
FRI	- 11			
SAT	-12	HOLIDAY		
SUN	-13	HOLIDAY		
MON	- 14	Children's Day		
TUE	- 15			

Day & Date	NOVEMBER	Time Table Code	No. Of Working Days
WED - 16			20170
THU - 17			
FRI - 18			
SAT - 19	HOLIDAY		
SUN - 20	HOLIDAY		
MON - 21			
TUE – 22			
WED - 23			
THU - 24			
FRI – 25			
SAT - 26	HOLIDAY		
SUN – 27	HOLIDAY		
MON- 28			
TUE – 29			
WED – 30			

ATTESTED D 6

SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLOBE 63: 205.

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

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

ATTESTED 8 SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLOISE 63: 205.

Day & Date	JANUARY	Time Table Code	No. Of Working Days
SUN – 1	Holiday - New Year's Day		
MON - 2		Ι	19
TUE - 3		II	20
WED - 4		III	21
THU - 5		IV	22
FRI -6		V	23
SAT –7	HOLIDAY		
SUN - 8	HOLIDAY		
MON - 9		VI	24
TUE – 10		Ι	25
WED - 11		II	26
THU -12	National Youth Day	III	27
FRI – 13		IV	28
SAT -14	Holiday – BOGI		
SUN - 15	Holiday – PONGAL		

Day & Date	JANUARY	Time Table Code	No. Of Workin Days
Date	Holiday – Ayyan	coue	Days
MON – 16	Thiruvalluvar Day		
TUE – 17	Holiday – Uzhavan Day		
WED – 18		v	29
THU – 19		VI	30
FRI -20		Ι	31
SAT – 21	HOLIDAY		
SUN - 22	HOLIDAY		
MON - 23		II	32
TUE – 24		III	33
WED – 25	National Voter's Day	IV	34
THU -26	Holiday - Republic Day		
FRI – 27		v	35
SAT – 28	HOLIDAY		
SUN – 29	HOLIDAY		
Mon - 30		VI	36
TUE-31		Ι	37

ATTESTED

SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLOISE 63: 205.

Day &		Time Table	No. Of Working
Date	FEBRUARY	Code	Days
WED - 1		II	38
THU - 2		III	39
FRI - 3		IV	40
SAT - 4	HOLIDAY		
SUN - 5	HOLIDAY		
MON - 6	I Monthly Test	V	41
TUE – 7	I Monthly Test	VI	42
WED -8	I Monthly Test	Ι	43
THU - 9	I Monthly Test	II	44
FRI – 10	I Monthly Test	III	45
SAT - 11	HOLIDAY		
SUN - 12	HOLIDAY		
MON – 13		IV	46
TUE – 14		V	47
WED - 15		VI	48

Day & Date	FEBRUARY	Time Table Code	No. Of Working Days
THU - 16		Ι	49
FRI - 17		II	50
SAT - 18	HOLIDAY		
SUN - 19	HOLIDAY		
MON - 20		III	51
TUE –21		IV	52
WED - 22		V	53
THU - 23		VI	54
FRI – 24	Sportive – 2022 - 2023	Ι	55
SAT - 25	HOLIDAY		
SUN – 26	HOLIDAY		
MON – 27		II	56
TUE – 28	National Science Day	III	57
		IV	58

ATTESTED 6 PRINCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLOBE 63: 205.

CALENDAR 2022- 2023

Day & Date	MARCH	Time Table Code	No. Of Working Days
WED - 1	MARCH	V	59
THU - 2		VI	60
FRI - 3		I	61
SAT - 4	HOLIDAY		
SUN - 5	HOLIDAY		
MON - 6		II	62
TUE – 7	பௌா்ணமி கவியரங்கம்	III	63
WED -8	International Women's Day	IV	64
THU - 9		v	65
FRI – 10	Cascade – 2022- 2023	VI	66
SAT - 11	HOLIDAY		
SUN - 12	HOLIDAY		
MON – 13		Ι	67
TUE – 14		II	68
WED - 15		III	69

Day &	MADCH	Time Table Code	No. Of Working
Date	MARCH	Code	Days
THU - 16		IV	70
FRI - 17		v	71
SAT - 18	HOLIDAY		
SUN - 19	HOLIDAY		
MON - 20		VI	72
TUE -21		Ι	73
WED - 22	HOLIDAY - UGADHI		
THU - 23		II	74
FRI – 24		III	75
SAT - 25	HOLIDAY		
SUN – 26	HOLIDAY		
MON – 27	Model Examination	IV	76
TUE – 28	Model Examination	v	77
WED - 29	Model Examination	VI	78
THU - 30	Model Examination	Ι	79
FRI - 31	Model Examination	II	80

ATTESTED FRENCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLOBE 63: 205.

CALENDAR 2022- 2023

Day & Date	APRIL	Time Table Code	No. Of Working Days
SAT -1	HOLIDAY		
SUN – 2	HOLIDAY		
MON - 3		III	81
TUE - 4		IV	82
WED - 5		v	83
THU - 6		VI	84
FRI -7	- Good Friday		
SAT –8	HOLIDAY		
SUN - 9	HOLIDAY		
MON - 10		Ι	85
TUE – 11		II	86
WED - 12		III	87
THU -13		IV	88
FRI – 14	Holiday – Tamil New Year		
SAT -15	HOLIDAY		

Day &		Time	No. Of
& Date	APRIL	Table Code	Working Days
SUN – 16	HOLIDAY		
MON – 17		v	89
TUE – 18		VI	90
WED – 19		Ι	91
THU – 20		II	92
FRI -21		III	93
SAT – 22	HOLIDAY		
SUN - 23	HOLIDAY		
MON - 24			
TUE – 25			
WED – 26	Commencement of University Theory Examination		
THU -27			
FRI – 28			
SAT – 29	HOLIDAY		
SUN - 30	HOLIDAY		

ATTESTED

PRINCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLUISE 63: 205.

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Department Work load details for the Odd / Even Semester (20 2) - 20 2 2

Department of computer science

Class	Theory (Hrs/Week)	Practical (Hrs/Week)	Total
I Year	12	04	16
II Year	06	05	11
III Year	22	08	30
Classes to Other Department			
Fil - B. com'A'	Ь		Ь
111 - B. com 'B'	Ь	_	Ь
TIL - BBA	5	-	5
III- B. com(cA)	6	-	6
II-B. com (CA)	5	-	ત
I-B-COM(CA)	4	-	4
TI-B-Se (micro)	4	2	Ь
II - Phy & chem	2	-	2
(A)	5		
BLA	SI	(7	68
Total	12.9	36	tbs

Total number of teaching staff in department : 10

Signature of H.O.D.

Principal

ATTESTED

FRINCIPAL SENGUNTHAR APPS APPS SCHWATE COLLEGE TIRECHER JULE 637 AVS.



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Since 1991

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Department Work load details for the Odd / Even Semester (20 9-2-2022)

Department of <u>Computer</u> Applications

Class	Theory (Hrs/Week)	Practical (Hrs/Week)	Total
I Year	12	4	16
II Year	17	05	22
III Year	22	08	30
Classes to Other Department			
· · · · · · · · · · · · · · · · · · ·			
	· · · · ·		
14			
1		-	
			· · · ·
		÷.	
Total	51	17	68

Total number of teaching staff in department : 10

Signature of H.O.D.

ATTESTED

SENGUNTHAP APPY AND SCIENCE COLLEGE TIRUCHERCORE 637 405

Principal



SENGUNTHAR ARTS AND SCIENCE COLLEGE

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Individual staff Work load details for the Odd / Even Semester (2022 - 2023)

Date:03 : 9.22

Balamun Name of the staff : computer Science Department

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	Fundamentals of comptons &	II MBA	4
2	Fundamentals of computers & communication Professional English for physical Scence - I Z - Commerce technologies	IBCA	2
3	Z-Commerce technologies	I BLA	3
4			
5			
6	-		, ·.
7			
8			
	Practical		
1	Programming in C - I BCA	TBCA	2
2	programming in C	J CS.	1
3		1	
	Total		12

Staff's Signature

Head of the Department

PRINCIPAL

ATTESTED

SENGUNTHAP APPT AND SCIENCE COLLEGE TIRECHERCLORE 637 405



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 (2021 - 2022)

Date: 01,9,2020

Name of the staff : S. Balachandar

Department

: computer science

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	Problem solving through c	I-BCA	65
2	Information Technologyn in Business	III - B. com	6
3	in Business		
4	Fundaments of computero	11-Mº 010-	3
5			
6			
7			
S			
	Practical		
1	Practical I c phyramming	I-BCA	2
2	0.f.file Automation	TI-B. Sc(mPoro)	2
3			
	Total		18

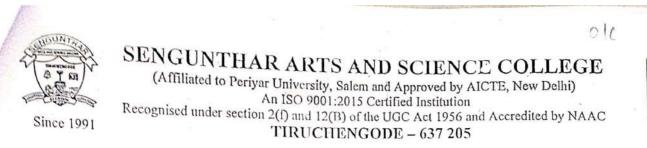
alon Staff's Signature

Head of the Department

CTPAL

ATTESTED

SENGUNTHAP APOT AND SCIENCE COLLEGE





Individual staff Work load details for the Odd / Even Semester (20 22 20 23)

Date: 01/09/2023

Name of the staff : 181, CHIWWUSAMY

Department

COMPUTER SEFENCE (UUY)

S. No.	Title of the paper	Class	Hours per week
	Theory		3 3
1	Problem Solving Through C	I.B.S.C. CS-A	5
2		IT Bise es	B
3	Prublem solving Technique	III. BEA	5
4	Value Bancaston - YourA.		1
5		×	
6			
7		4	
8			3 8
	Practical	-	
1	practical- c programmine	I-B. 80.03 - A'	4
2			
3			
	Total		18

Staff's Sign

Head of the Department

ICIPAL

FRENCIPAL SENGUNTHAR APOX AND SCHWAT COLLEGE TURICHER LOUR 637 245



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 (2022 - 2023)

Date: 01/9/22

Name of the staff

Department

: V. Balasubramanyan omputes suènce

Hours per S. Class Title of the paper week No. Theory 1 Relational Database mangement system 3 CS 11 2 Technology 5 web BCA of C Fundamentals computer 3 Eally 3 BLOMLA and for Professional English Physical science 4 2 A Physical 5 6 7 8 Practical 1 Practical-III JAL & PLISAL 11 BSC CCS 3 2 SBEC Proictical - Shell poogramming 2 11) [C.5] 3 Total 18

Staff's Signature

Head of the Department

PRINCIPAL

ATTESTED

SENGUNTHAP 21 AND SCHWAT COLLEGE TIPECHENAUTE 657 405

re 199	 SENGUNTHAR ARTS AND SC (Affiliated to Periyar University, Salem and Appro An ISO 9001:2015 Certified In: Recognised under section 2(f) and 12(B) of the UGC Ac TIRUCHENGODE - 6. 	ved by AICTE, New Delhi) stitution t 1956 and Accredited by NAAC	
I	ndividual staff Work load details for the Odd	/ Even Semester (2022	- 2023)
	ame of the staff : <u>G. Sen thilku</u> Department : <u>Computer S</u>	Da	1c: 01]9]
D	epartment : <u>Computer 3</u>	ciente.	
S.	Title of the paper	Class	Hours per week
No.	Theory		
1	Programming in Java	IIL BCA	5
2	Programming, in Java Problem Solving Techniques Funda mentals O of Computer	TI CS	5
3	Funda mentals O of Computer	TIBLOMCA	2
4	yoga	IBCA	1
5	0.0		
6			
7			
8		-	
	Practical		
1	Practical-V. Programming	III BCA	5
2	Practical-V. Programming un Java		
3			
	Total	a	18

Staff's Signature

Head of the Department

PRINCIPAL

ATTESTED

FRENCIPAL SENGUNTHAP APPS APPS SCHWARP COLLEGE TIRECHERCLORE 657 AVS.

22



SENGUNTHAR ARTS AND SCIENCE COLLEGE

(Affiliated to Periyar University, Salem and Approved by AICTE, Men Deskey An ISO 9001:2015 Certified Institution Recognised under section 2(f) and 12(B) of the UGC Act 1956 and Accredited by MAAL TIRUCHENGODE - 637 205



四十二十一章

Individual staff Work load details for the Odd / Even Semester (2022 - 2013)

Date: 1.9.2022

: A. SHARESPEAR Name of the staff

Department

COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
1.01	Theory		
1	RELATIONAL DETABASE MANACHEMENT SYSTEM	D BCA	5
2	OPERATING SYSTEM	III B.Sc CS	5
3	MANAGTENTENT INFORMATION SYSTEM	1 III B.B.A	5
4			* h*
5			
6			· · ·
7			
8		-	<u> </u>
	Practical	T	1
1	PRACTICAL DI SQL AND PLSQL		3
2			
3			
-	Total	•	18.

Staff's Signature

Head of the Department

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ATTESTED FRINCIPAL SENGUNTHAP APAY AND SCHWAT COLLEGE TIRECHERCOUR 637 INS.

SENGUNTHAR ARTS AND SCIENCE COLLEGE



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Since 1991

Individual staff Work load details for the Odd / Even Semester (2022 - 2023)

Date: 01. 09. 2022

Name of the staff

: E.PRABAKAR RAT

Department

COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
	Theory	1	
1	INFORMATION TECHNOLOGY IN BUSINESS	III - B. com À'	6
2	OPERATING SYSTEMS	II BCA	6
3	FUNDAMENTALS OF COMPUTERS	TT.B.SC (MICRO)	1.
4			
5			
6			-
7			
8			
	Practical	1	
1		a III BCA	3
2		TI. B.Sc (CS)	1
3			
	Total		17.

Ella 19122 Staff's Signature

Head of the Department

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SENGUNTHAP APTY APT SCHOOL COLLEGE

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Y 100 ce 199	SENGUNTHAR ARTS AND SC (Affiliated to Periyar University, Salem and Appr An ISO 9001:2015 Certified I Recognised under section 2(f) and 12(B) of the UGC A TIRUCHENGODE -	nstitution	ESCIE
Ir	ndividual staff Work load details for the Odd	1 / Even Semester (2022	<u>- 2023)</u>
Na	epartment : <u>Computer</u>	ganthe Da	te: 01-09-2
D	epartment : <u>Computer s</u>	Science	
S. No.	Title of the paper Theory	Class	Hours per week
1	Gruz Programming	ill. B.sc(w)	5
2	SBEC: MUCHISDELL Development	W.BCA	2
3	E-Commerce Techorologies	III-BCA	2
4	NMEC: Basics of Computer	II. B. se (Chem, Phy	2.
5	Profession English for Physical Science -I	I-B.SC (U)-B	2
7			
8			
	Practical O D a O D A	III-B.Solos)	5
1	Practical - V - Programming in VB	<u>(11-0-50(1)</u>	2
2		× *	
<u> </u>	Total	- Constant and a second s	18

Staff's Sig

Head of the Department

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FRENCIPAL SENGUNTHAP APPT APPT SCIENCE COLLEGE TIRECHERCLORE 657 AVS.

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	Narr	An ISO 9001:2015 Certified Ins Recognised under section 2(f) and 12(B) of the UGC Act TIRUCHENGODE - 6: ividual staff Work load details for the Odd the of the staff : <u>S.SIVAKUMAR</u> partment : <u>Compoter Scien</u>	ved by AICTE, New Delhi) stitution t 1956 and Accredited by NAAC 37 205 / Even Semester (2022 Dat	- 20 23) e:
Γ	S. No.	Title of the paper	Class	Hours per week
F		Theory		
T	1	MULTISKILL DEVELOPMENT	III B.SL(CS)	2
0	2	DATA STRUCTURES AND ALGON	HOJ TI B.C.A	3
	3	PROBLEM SOLVING THROUGH C	TB.Com (CA)	
	4	BUSINESS APPLICATION SOFTWAR	IB.S. (CS)-R	, 1
	5	VALUE EDUCATION - YOGA	L KS SCIUS	
	6			
	. 7			
1	8			
1		Practical	I TO ALLO.	18 4
	1	PRACTICAL - C-PROGRAMM	1 3.500-32	
	2			
	3	Total		19
		Total	``````	
		S. L. Karte Staff's Signature Head of the De	apartment ATTESTED SENGUNTHAP APPS CONVERCENT TERCOMPANY COLL	RINCIPAL

C	1	`
2	C	



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



Since 1991

Individual staff Work load details for the Odd / Even Semester (2022 - 2023)

Date: 1-9-22

UIL

Name of the staff : <u>S. SOUNDARARAJAN</u>

Department

COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	COMPUTER NETWORKS	III - BBC [CS]	5
2	Data Structures and Algoritham	II-BCA	3
3	Software development with Visual Basic	III-B.Com(CA)	6
4			
5		2	
6			
.7			2 5 1
8			
	Practical		*
1	SBEC-I- Office Automation	II-B.Sc (cs]	2
2	SBEC-I-OFFICE Automation	J-BCA	2
3		и •	
2	Total		18

Staff's Signature

Head of the Department

PRINCIPAL

ATTESTED FRENCIPAL SENGUNTHAP APPS APPS CORNET COLLEGE TIRECHENCOULE 657 AVS.





SENGUNTHAR ARTS AND SCIENCE COLLEGE (Affiliated to Periyar University, Salem and Approved by AICTE, New Delhi)

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Since 1991

Department Work load details for the Odd / Even Semester (2022 - 2028)

Department of Computer Science

Class	Theory (Hrs/Week)	Practical . (Hrs/Week)	Total
I Year A B	9	3	12
II Year	4	3 3 5	12
III Year	22	8	30
Classes to Other Department			
	*	_	
			1
•			
	· · ·		
		0	
	÷		
ă	*	1944 - A	
Total	44	19	63 r

Total number of teaching staff in department

Signature of H.O.D.

Mr. P. BALAMURUGAN M.Sc., In Phil., Head of the Department, Department of Computer Science, Sengunthar Arts and Science College TIRUCHENGODE - 637 205.

ATTESTED FRENCIPAL SENGUNTHAP APPT APPT SCIENCE COLLEGE TIRECHERCLOSE 657 405.

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Since 1991

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Department Work load details for the Odd / Even Semester (2022 - 2023)

Department of Compuley Applications

Theory (Hrs/Week)	Practical (Hrs/Week)	Total
9	3	12
16	6	22
22	8	30
	l'a a	
5	5	(10
4 *	3	7
3	.3	6
.5		5
4	3	7
4	3	フ
2	-	2
-	1	x
		÷
74	34	801
	(Hrs/Week) 9 16 22 5 4 3 5 4 3 5 4 4 4 4 4 2	(Hrs/Week) (Hrs/Week) 9 3 16 6 22 8 5 5 4^* 3 3 3 5 $ 4^*$ 3 5 $ 4$ 3 2 $ 4$ 3 2 $ 2$ $ 2$ $ 2$ $ 2$ $ 2$ $ 2$ $-$

Total number of teaching staff in department

Rectil23 Signature of H.O.D.

Signature of H.O.D. Mr. P. BALAMURUGAN M.Sc. IA.Phil., Head of the Department, Head of the Department, Department of Computer Science, Department of Computer Science College

ATTESTED FRENCIPAL SENGUNTHAR APOS APID SCIENCE COLLEGE TIRECHENCOUR 657 IVS.

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HEUNTH TP	SENGUNTHAR ARTS AND SCIENCE COLLEGE (Affiliated to Periyar University, Salem and Approved by AICTE, New Delhi)	
O I H	An ISO 9001:2015 Certified Institution	
Callon and	Recognised under section 2(f) and 12(B) of the UGC Act 1956 and Accredited by NAAC	
ince 1991	TIRUCHENGODE – 637 205	



S

(martin

Individual staff Work load details for the Odd / Even Semester (2022 - 20 22)

Date:

Name of the staff P. Balamwongan

Computer Science Department

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	Environmental Science	I ce À'	1
2	Envormental Science	I (8 B'	1
3	Environmental Science	JBCA	- 1
4			a
5		*	
6			
7 .		1 27	
8			
	Practical	· · · · · · · · · · · · · · · · · · ·	
1	MIS LAB	MIB A	. 6
2			
3	t i		
	Total		· 9.

Staff's Signature

Head of the Department, Phil., Mr. P. BALAMURUCEART Ment, Phil., Head of the Separtment, Department of Computer Science, Sengunthar Arts and Science College TIRUCHENGODE - 637 205.

PRINO

ATTESTED FRENCIPAL SENGUNTHAP APPS APPS CORNER COLLEGE TIRECHERCOUR 657 205



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Since 1991

Individual staff Work load details for the Odd / Even Semester (20 22 - 2023)

Date: 25/1/23

Name of the staff

Department

:_____Computer Science

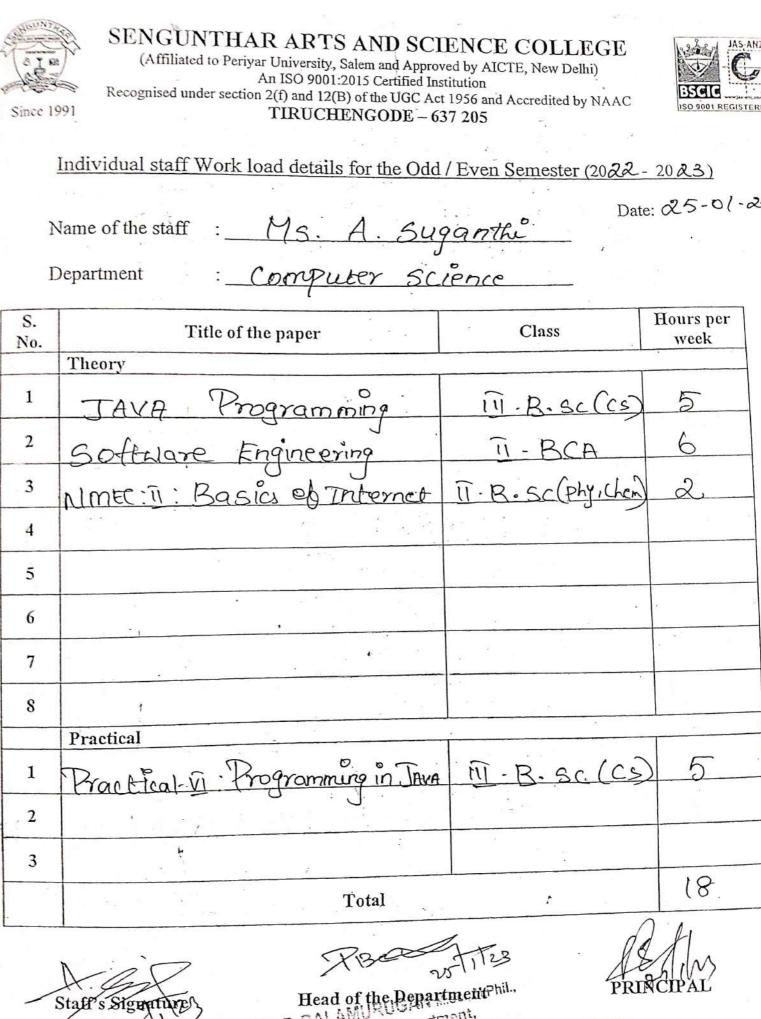
S. No.	Title of the paper	Class	Hours per week
1101	Theory		T
1	Computer organizations architecter	e TBCA	4
2	Computer or ganizations architecter GUI programming E Commerce	TI BCA	5
3	E Commerce	TI BCOM CA	2
4			
5			
6			
7			
8	1		
	Practical	2	
1	Practical VI - Programmun practical VI - Programmun In VB	111 BUA	5
2	Image Editing tool	TICS	2
3	0		
	Total	:	18
		1 (In NI

ure3 Staff

eco Head of the Department

Mr. P. BALAMURUGI N Miss. M.F Head of the Dat in sulen Department of Count Sengunthar Arts and Science Colic TIRUCHENGODE - 637 205.

ATTESTED FRINCIPAL SENGUNTHAP APTY AND SCHWAT COLLEGE TIRECHERCLOUR 637 rus.



Mr. P. BALAMUR (Gartment, Head of the Department, Head of the Department, Department of Computer Science, Department of Computer Science College Mar A32 and Science College

ATTESTED FRINCIPAL SENGUNTHAP APPS APP SCHENCE COLLEGE TIRECHERCLOUR 637 PVS.



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Individual staff Work load details for the Odd/ Even Semester (2022 - 2023)

Date: 25.1.2023

Name of the staff :____

S. SIVALUMAR

Department

COMPUTER SCIENCE - UG

			TT
S. No.	Title of the paper	Class	Hours per week
-	Theory		
1	Data structure & Algorithms	7 B.Sc(cs)-B	4
2	Database Management Systems	T B. Coro (LA)	4
3	Computer Graphics	TIL Biscics)	5
4			
5			
6		4	
7		a 3 0	
8	1		
	Practical		1
1	Data structures Using C	T B.Sc(cr)-B'	3
2	Computer practical -J (ms-office) T B. Com (CM)	3
3	ų.		
	Total	:	19

Staff's Signature

11/23 Head of the Department

Mr. P. BALAMURUGAN M.Sc., M.Phil., Head of the Department, Department of Computer Science, Sengunthar Arts and Science College Sengunthar Mich. 2025 - 637 205.

ATTESTED FRONCIPAL SENGUNTHAR APPLY APPLY COLLEGE TREDICTION OF SET ANS.

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Sin	1 F nce 1991	SENGUNTHAR ARTS AND SCI (Affiliated to Periyar University, Salem and Approv An ISO 9001:2015 Certified Inst Recognised under section 2(f) and 12(B) of the UGC Act TIRUCHENGODE – 63	ed by AICTE, New Delhi) itution 1956 and Accredited by NAAC	UNS-ANZ USERE ISO SOON REGISTERED
	Na	$\frac{\text{dividual staff Work load details for the Odd}}{\text{me of the staff}} : \underline{M} \cdot \underline{C} + \underline{F} + \underline{K} + \underline{K} + \underline{C} + \underline{C}$	Date	::24/1/2023
Γ	S. No.	Title of the paper	Class	Hours per week
-	1	Data Stanennek & goridan	IBSE Q-A	Ŧ
	2	Jolulfinedia E-commerce Techniques	MI BCA TI Bise Biochemilt & Biotechnology	5
) .	4	8		
	5			
	6	1		
	7			
	8			
	1	Practical Data Structures Veing C LATIONL PODStamming	I BBC. CS D II Bise, Biblio	× three
	2	referre forstations of	Biotechnolo	27
	3			19.
		Total Staff's Signature Head of the Dep 34	artme-4 PI	RINCIPAL

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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 (2022 - 2023)

Date: 25.1.23

Name of the staff

Department

: COMPUTER SCIENCE

E PRABAKAR RAJ

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	MANAGEMENT THFORMATION SYSTEM	I.B.B.A.	5
2	SHELL PROGRAMMING	TII - B.CA	2
3	SOFTWARE ENGINEERING	III.B.Sc (CS)	2
4	OBJECT-ORIENTED PROGRAMMING CONCEPTS USING CH	T.B.C.A	4
5			
6			
7			
8	1		<u> </u>
	Practical		
-1	CH PROGRAMMING LAB	I.B.C.A	3
. 2	FUNDAMENTALS OF COMPUTER LTALLY	T.B.Com (CA)	2
3			
	Total	1	18

taff's Signature

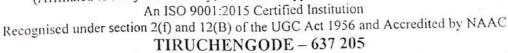
120 RBCCS

Head of the Department Mr. P. BALAMURUGAN M.Sc., M.Phil., Head of the Department, Department of Computer Science Sengunthar Arts and Science College 35 ODE - 637 205.

ATTESTED FRENCIPAL SENGUNTHAP APTY AND SCHWAT COLLEGE TIRECHENCLOUR 657 105.



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Since 1991

Individual staff Work load details for the Odd / Even Semester (2022 - 2023)

Date: 25/01/2023

Name of the staff

BALASUBRAMANIYAM.V

Department

COMPUTER SCIENCE.

S. No.	Title of the paper	Class	Hours per week
	Theory		
1	Programming in Java	II CS	4
2	Programming in Java Computer organization and Architecture	ICS	4
3	Core - VIII - Ecommerce	IBCOM (LA)	3
4	50 14		
5			
6		5	1
7			1
. 8	1		
	Practical		
1	Tava programming		3
2	Java programming Computer practical -I Tally		3
3			
	Total		17

Staff's Signature

de

Head of the Department Mr. P. BALAMIJRUGAL MSc. M.Phil. Head of the Department Department of Computer Science Sengunt at Arts and Science College Sengunt at Arts and Science College TIRUCHENGODE - 637 205.

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Since 1991

Individual staff Work load details for the Odd / Even Semester (20 22 - 20 2.3)

Date: 25-1-23

Name of the staff : 5 SOUNDARARPJAN

Department

COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
	Theory	And the second	
1	COMPUTER NETWORKS	TIL BCA	5
2	COMPUTER NETWORKS	JI-BCA	5
3	PHP SCRIPTING LANGUAGE	TH - CS	2
4	<u>1</u>		
5			
6			an an an an Arman an
7			
8			and the state of the
1	Practical		The left in the second state of the second state
1	IMAGE EDMING TOOL LAB	1) - B. Se (c 5]	3
2	IMAGE EDITING TOOLLAB	The -BCA	2
3	OFFICE AUTOMATION LAB	I B.S. (micRo]	1
	Total		18

Staff's Signat

Head of the Department



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Since 1991

Individual staff Work load details for the Odd / Even Semester (20 22- 20 23)

Date: 27.1.23

Name of the staff : <u>A. SHAKESPEAR</u>

Department

COMPUTER SCIENCE

S. No.	Title of the paper	Class	Hours per week
140.	Theory		1
1	PROUTPANIMINUT IN JAVA	D B.C.A	5
2		The Base CS	3
3	COMPUTER APPLICATIONS IN BUSINESS	I B.C.A II E.Sc C.S II B.B.A	3
4			
5			
6			
7			
8			
	Practical		
1	JAVA PRBUTRAMMINY	D B.C.A	3
2	PRACTICAL - CONTPUTER APPLICATION TN BUSINESS	I B.B.A	3
3	in the business		
	Total	:	17
			2 11

Ree

PRINCIP

Staff's Signature

Head of the Department

ATTESTED SENGUNTHAP APAY AND SCIENCE COLLEGE TIRECHERLOUIE 637 aus.



Since 1991

SENGUNTHAR ARTS AND SCIENCE COLLEGE (Affiliated to Periyar University, Salem and Approved by AICTE, New Delhi) An ISO 9001:2045 Certified Institution Recognized under section 2(f) and 12(B) of the UGC Act 1956 Accredited by NAAC TIRUCHENGODE – 637 205, NAMAKKAL DT., TAMILNADU



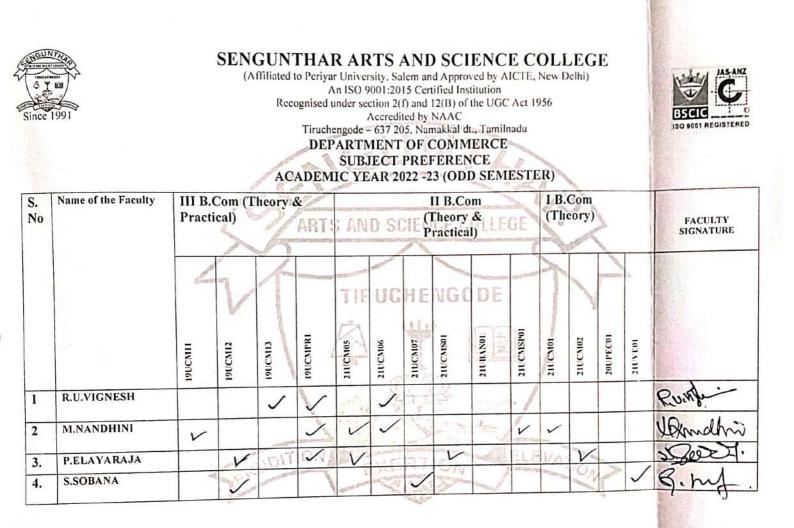
DEPARTMENT OF COMMERCE

ACADEMIC YEAR 2022 -23 (ODD SEMESTER)

S.NO	SUBJECT CODE	SUBJECT NAME
1	19UCM11	COST ACCOUNTING
2	19UCM12	AUDITING
3	19UCM13	INCOME TAX LAW AND PRACTISE I
4	19UCMPR1	PROJECT WORK
5	21UCM05	BUSINESS LAW
6	21UCM06	CORPORATE ACOUNTING I
7	21UCM07	BANKING THEORY LAW AND PRACTICE
8	21UCMS01	FINANCIAL MARKET
9	21UCMSP01	MS OFFICE PRACTICAL I
10	21UBAN01	ENTREPRENEURIAL DEVELOPMENT
11	21UCM01	PRINCIPLES OF ACCOUNTANCY
2	21UCM02	BUSINESS COMMUNICATION
3	21UVE01	YOGA
4	20UPEC01	PROFESSIONAL ENGLISH FOR COMMERCE AND MANAGEMENT

04/08/22

PRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE - 637 205.



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SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE - 637 205.

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š. No	Name of the Faculty	III B.Com (Theory & Practical) ARTS AND SCIENCE (Theory & Practical)									I B.Com (Theory)				
		ысми	IPUCNI2	19UCM13	IPUCNIPRI	SILCNOS	SIUCNOS	211/CM070	21UCMS01	21UBANOI		21UCN01	21UCM02	20UPEC01	21UVE01
1	R.U.VIGNESH			4	4		2	C X	1 /						
2	M.NANDHINI	2	~	1	-	π	24	-	-/	-	¢	6	2	~	
3.	P.ELAYARAJA	~	1	~	40	ACT	173		· 1	-	-	-	1	-	-
4.	S.SOBANA		1	2	Later	1	Tapan		1						1

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SENGUNTHAR ARTS AND SCIENCE COLLEGE

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DEPARTMENT OF COMMERCE

ACADEMIC YEAR 2022 -23 (EVEN SEMESTER)

S.NO	SUBJECT CODE	SUBJECT NAME
1	19UCM15	MANAGEMENT ACCOUNTING
2	19UCM16	ENTREPRENEURIAL DEVELOPMENT
3	19UCM17	INCOME TAX LAW AND PRACTISE II
4	19UCME04	FUNDAMENTALS OF INSURANCE
5	19UCMP01	COMMERCE PRACTICAL
6	21UCM08	COMPANY LAW
7	21UCM09	CORPORATE ACCOUNTING II
8	21UCM11	PRINCIPLES OF MARKETING
9	21UCMS02	PROJECT METHODOLOGY
10	21UBAN02	HUMAN RESOURCE MANAGEMENT
11	21UCMSP02	TALLY PRACTICAL II
12	21UCM03	FINANCIAL ACCOUNTING
13	21UCM04	BUSINESS MANAGEMENT
14	21UES01	ENVIRONMENTAL STUDIES
15	20UPEC02	PROFESSIONAL ENGLISH FOR COMMERCE AND MANAGEMENT

F. D. 4 23/01/23

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PRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE - 637 205.

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S. No	Name of the Faculty	III B.0	Com (T	heory	& Prac		D SI	CIEN	IDE (II B. Theor Practi	ry &	N.	IB.C (The	S. C. S. L. D.			
		INCAUS	INCARG	2 Inchi	191 C MI D4	TIE	IDC Nos	INCARD H	N INOIR	19UCMS02 0	11) ZONARUO	Tot CAISPOR	ZITCA03	211CM01	2011512.01	21115501	FACULTY SIGNATURE
1	RUNIGNESH			1			d.	1	5			1					Runghi
2	M.NANDHINI	~	-	-	7	1	1-		-	7	-/	V	V	-	-	No.	UBAndhio
3.	P.ELAYARAJA	-	-		V	V	V	-		V	3	-	-	-	V	-	N. get
4.	5.50BANA	4	1	1011	1	1	D.E	RJ	1	1	MALL.	- Ka	Tic	1		ST.	S. hut
5.	M.KAVINKARTHI		1		~	-	1		1		1			The second	V		An. Kan

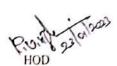
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S. No	Name of the Faculty	III B.Com (Theory & Practical) ABIS AND						NCE	(The	B.Com cory &	I B.Com (Theory)					
		INCNIS	Inconte	BUCMIT-CINOU	INCOLEDA	Telicoling.	211CMB	211CX100		211 CMS02	21UBAN02	211CAISIW2		210CM04	2011PEC02	21UES01
1	R.U.VIGNESH			5	4	1	1	3	E	민	1		1			
2	M.NANDHINI	2	-	1-1	-	5	2%	245	~	-	1 -	2	-	6	-	-
3.	P.ELAYARAJA		1		2	2	1	1 al	-	2	-	-	-	-	1	-
4.	S.SOBANA		2		N	2	- 2	in the	3	1					5	_
	M.KAVINKARTHI			and the second	1	122	1000	and a	1	1	-	- har	1	1	1	



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PRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE - 637 205.

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		I - DAY O	RDER					
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour			
III B.A. (ENG.)	MAJOR (KP)	MAJOR (JM)	MAJOR (PD)	MAJOR (MA)	MAJOR (TK)			
II B.A. (ENG.)	ENG. (JME)	MAJOR (MKE)	SBEC (KP)	TAMIL (RST)	MAJOR (MA)			
I B.A. (ENG.)	MAJOR (MKE)	ENG. (X)	MAJOR (MKE)	TAMIL (AST)	MAJOR (JME)			
	MAJOR (MNC)	MAJOR (RUV)	ALLIED (EP)	MAJOR (PE)	MAJOR (SS)			
III BCOM – A III BCOM – B	MAJOR (PE)	MAJOR (SS)	MAJOR (MNC)	MAJOR (RUV)	ALLIED (SBC)			
II BCOM I BCOM	MAJOR (RUV)	NMEC (RRB)	MAJOR (SS)	MAJOR (MNC)	ALLIED (KC)			
IDCOM	TAMIL (UK)	MAJOR (MNC)	ENG. (TK)	MAJOR (SS)	MAJOR (PE)			
III B.B.A.	MAJOR (SSB)	MAJOR (X)	MATHS (RK)	MAJOR (X)	COMP. (ASC)			
II B.B.A. I B.B.A.	MAJOR (X)	NMEC (PR)	MAJOR (SSB)	ALLIED (SSE)	MAJOR (RRB)			
I D.D.A.	MAJOR (RRB)	ENG. (X)	MAJOR (X)	TAMIL (AST)	ALLIED (VR)			
III BCOM (CA)	MAJOR (RMK)	ALLIED (SSC)	MAJOR (TRM)	ALLIED (SSN)	MAJOR (NMC)			
II BCOM (CA)	MAJOR (TRM)	ALLIED (STN)	MAJOR (SM)	MAJOR (TS)	ALLIED (GSK)			
I BCOM (CA)	MAJOR (NMC)	TAMIL (RST)	MAJOR (NMC)	ENG. (SRE)	ALLIED (SK)			
III B.Sc. (ELEC.)	← 8051-MICROCO	ONTROLLED&INTERF	ACING LAB(AK) \rightarrow	MAJOR (MN)	MAJOR (PR)			
I B.Sc. (ELEC.)	ALLIED (SSM)	ENG. (KP)	MAJOR (PR)	TAMIL (AST)	ALLIED (SSM)			
	MAJOR (SSN)	MAJOR (SSB)	MAJOR (AS)	←PLACEMEN	$NT LAB (AS) \dashrightarrow \mathbf{A}$			
III B.Sc.(CS) II B.Sc.(CS)	ENG. (JME)	MAJOR (VB)	TAMIL (KU)	ALLIED (PR)	NMEC (SSB)			
I B.Sc.(CS)-A I B.Sc.(CS)-B	MAJOR (MC)	ALLIED (VR)	MAJOR (VB)	ENG. (TK)	TAMIL (AST)			
	ALLIED (SA)	MAJOR (AS)	ENG. (SRE)	MAJOR (SSC)	TAMIL (KST)			
III B.C.A.	← PL	LACEMENT LAB (MAJOR (VB)	MAJOR (MC)				
II B.C.A.	←	- M.Sc. LAB (ASC)	ALLIED (PR)	NMEC (SSB)				
I B.C.A.	ALLIED (SSM)	MAJOR (SBC)	ENG. (X)	ALLIED (SSM)				
III B.Sc.(Maths)	MATHS (KC)	MATHS (SA)	MATHS (SSM)	← MBA L.	$AB (STN) \dots \rightarrow$			
II B.Sc.(Maths) I B.Sc.(Maths)	ALLIED (VR)	SBEC (MG)	NMEC (AST)	TAMIL (KST)	ENG. (PD)			
I D.SC.(Wattis)	MATHS (RK)	ENG. (KP)	ALLIED (MN)	TAMIL (AST)	P.E. (SA)			
III B.Sc.(Micro)	MAJOR (PAK)	MAJOR (APV)	MAJOR (TRP)	MAJOR (APV)	MAJOR (PAK)			
II B.Sc.(Micro)	ENG. (SRE)	TAMIL (AST)	MAJOR (TN)	ALLIED (SBC)	MAJOR (TN)			
I B.Sc.(Micro)	TAMIL (KU)	ENG. (PD)	← ALLIED BIC	CHEMICTRY LAP	$B (JM \& PSK) \rightarrow$			
III B.Sc.(BT)	MAJOR (AJ)	MAJOR (ML)	MAJOR (RRW)	MAJOR (KVK)	MAJOR (KV)			
II B.Sc.(BT)	ENG. (SRE)	TAMIL (AST)	ALLIED (GR)	MAJOR (AJ)	MAJOR (KVK)			
I B.Sc.(BT)	ENG. (MA)	TAMIL (UK)	← N	MAJOR LAB (ML)→				
III B.Sc.(Physics)	<i>←</i>	- MAJOR LAB (AK)→	MAJOR (AK)	MAJOR (SR)			
II B.Sc.(Physics)	←	MAJOR LAB (AK))→	TAMIL (KST)	ENG. (PD)			
I B.Sc.(Physics)	ALLIED (SSM)	ENG. (KP)	MAJOR (PR)	TAMIL (AST)	ALLIED (SSM)			
III B.Sc.(Chemistry)	←	ORGANI	C AND GRAVIME	TRIC LAB	→			
II B.Sc.(Chemistry)	ALLIED (MN)	← MAJO	R LAB→	TAMIL (KST)	ENG. (PD)			
I B.Sc.(Chemistry)	ALLIED (SSM)	ENG. (KP)	MAJOR	TAMIL (AST)	ALLIED (SSM)			
II B.Sc.(Bioche)	MAJOR (JM)	SBEC (KK)	ALLIED (GR)	TAMIL (RST)	ENG. (PD)			
I B.Sc.(Bioche)	ALLIED (CHE)	ENG. (KP)	ALLIED (PSK)	TAMIL (AST)	YOGA (JM)			
III B.Sc.(Botany)	MAJOR (DM)	MAJOR (GD)	MAJOR (DM)	MAJOR (DM)	MAJOR (GD)			
II B.A. (TAMIL)	SBEC (RST)	MAJOR (KU)	MAJOR (KST)	TAMIL (RST)	ENG. (PD)			
I B.A. (TAMIL)	ALLIED (KST)	ENG. (X)	MAJOR (UK)	TAMIL (AST)	MAJOR (KU)			



		II - DAY C	ORDER			
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	
III B.A. (ENG.)	MAJOR (JM)	MAJOR (TK)	MAJOR (MA)	MAJOR (PD)	MAJOR (KP)	
II B.A. (ENG.)	TAMIL (RST)	ENG. (JME)	MAJOR (MKE)	MAJOR (MA)	SBEC (PD)	
I B.A. (ENG.)	ENG. (X)	TAMIL (AST)	MAJOR (KP)	MAJOR (MKE)	MAJOR (JME)	
III BCOM – A	MAJOR (RUV)	MAJOR (EP)	MAJOR (MNC)	MAJOR (MNC)	MAJOR (PE)	
III BCOM – B II BCOM	MAJOR (MNC)	ALLIED (SS)	MAJOR (PE)	MAJOR (RUV)	ALLIED (SBC)	
I BCOM I BCOM	MAJOR (PE)	ALLIED (KC)	MAJOR (RUV)	MAJOR (SS)	MAJOR (MNC)	
	ECO (SSE)	TAMIL (UK)	MAJOR (SS)	ENG. (TK)	MAJOR (RUV)	
III B.B.A.	COMP. (ASC)	MAJOR (X)	MAJOR (RRB)	MATHS (RK)	MAJOR (SSB)	
II B.B.A. I B.B.A.	MAJOR (RRB)	MAJOR (SSB)	ALLIED (SSE)	MAJOR (X)	SBEC (SSE)	
1 D.D. A.	ENG. (X)	TAMIL (AST)	ALLIED (VR)	MAJOR (RRB)	MAJOR (X)	
III BCOM (CA)	MAJOR (TS)	MAJOR (TRM)	MAJOR (SSCA)	MAJOR (RMK)	MAJOR (SM)	
II BCOM (CA) I BCOM (CA)	MAJOR (TRM)	ALLIED (VB)	ALLIED (STN)	NMEC (MG)	MAJOR (TS)	
	MAJOR (RMK)	MAJOR (NMC)	TAMIL (RST)	MAJOR (MNC)	ENG. (SRE)	
III B.Sc. (ELEC.)	MAJOR (MN)	MAJOR (PR)	MAJOR (SR)	MAJOR (SR)	MAJOR (PR)	
I B.Sc. (ELEC.)	ENG. (KP)	TAMIL (AST)		MAJOR LAB (MN)		
$\mathbf{H} = \mathbf{B} \mathbf{S}_{\mathbf{C}} (\mathbf{C} \mathbf{S})$	MAJOR (SSN)	MAJOR (ASC)	MAJOR (GSK)	MAJOR (AS)	MAJOR (SK)	
III B.Sc.(CS) II B.Sc.(CS)	TAMIL (KU)	ENG. (JME)	← PL	ACEMENT LAB (V	/B)→	
I B.Sc.(CS)-A I B.Sc.(CS)-B	ALLIED (VR)	MAJOR (MC)	ENG. (TK)	MAJOR (MC)	TAMIL (AST)	
1 D .5C.(C5)-D	MAJOR (AS)	MAJOR (SK)	ENG. (SRE)	ALLIED (SA)	TAMIL (KST)	
III B.C.A.	MAJOR (GSK)	MAJOR (AS)	←	- M.Sc. LAB (EP) -	→	
II B.C.A. I B.C.A.	OS (EPR)	MAJOR (SSN)	MAJOR (SK)	MAJOR (ASC)	MAJOR (SSN)	
I D.C.A.	← M.Sc.	LAB (SBC)→	MAJOR (SBC)	TAMIL (RST)	ENG. (X)	
III B.Sc.(Maths)	MATHS (SA)	MATHS (RK)	MATHS (KC)	MATHS (SSM)	MATHS (JSM)	
II B.Sc.(Maths) I B.Sc.(Maths)	TAMIL (KST)	ENG. (PD)	MATHS (SSM)	MATHS (GR)	ALLIED (VR)	
I D.Sc.(Maths)	ENG. (KP)	TAMIL (AST)	MATHS (JSM)	← ALLIED PH	Y. LAB (MN) \rightarrow	
III B.Sc.(Micro)	MAJOR (APV)	MAJOR (PAK)	MAJOR (TN)	← MAJOR	LAB (APV)→	
II B.Sc.(Micro) I B.Sc.(Micro)	TAMIL (AST)	ENG. (SRE)	MAJOR (PAK)	ALLIED (SBC)	MAJOR (TN)	
1 D.SC.(MICIO)	ENG. (PD)	TAMIL (KU)	←	MAJOR LAB (TRI	₽)→	
III B.Sc.(BT)	MAJOR (AJ)	MAJOR (KVK)	MAJOR (ML)	MAJOR (KV)	MAJOR (ML)	
II B.Sc.(BT) I B.Sc.(BT)	TAMIL (AST)	ENG. (SRE)		AJOR LAB (KVK		
	TAMIL (UK)	ENG. (MA)		BIOCHEMISTRY I		
III B.Sc.(Physics)	MAJOR (PR)	MAJOR (MN)	MAJOR (PR)	MAJOR (AK)	MAJOR (SR)	
II B.Sc.(Physics) I B.Sc.(Physics)	TAMIL (KST)	ENG. (PD)	MAJOR (AK)	LIBRARY	MAJOR (AK)	
i Disci(i nysics)	ENG. (KP)	TAMIL (AST)	←	MAJOR LAB (MN	[)→	
III B.Sc.(Chemistry)	←		MAJOR LAB		-	
II B.Sc.(Chemistry)	TAMIL (KST)	ENG. (PD)	← AL	LIED PHY. LAB (M	ſN)→	
I B.Sc.(Chemistry)	ENG. (KP)	TAMIL (AST)		MAJOR LAB	,	
II B.Sc.(Bioche)	TAMIL (RST)	ENG. (PD)	NMEC	MAJOR (PSK)	MAJOR (JM)	
I B.Sc.(Bioche)	ENG. (KP)	TAMIL (AST)	MAJOR (JM)	ALLIED	P.ENG. (PSK)	
III B.Sc.(Botany)	MAJOR (DM)	MAJOR (DM)	MAJOR (GD)	MAJOR (DM)	MAJOR (DM)	
II B.A. (TAMIL)	TAMIL (RST)	ENG. (PD)	MAJOR (UK)	MAJOR (UK)	SBEC (RST)	
I B.A. (TAMIL)	ENG. (X)	TAMIL (AST)	ALLIED (KST)	MAJOR (KU)	MAJOR (UK)	



		III - DAY (ORDER				
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour		
III B.A. (ENG.)	MAJOR (KP)	MAJOR (PD)	MAJOR (MA)	MAJOR (JMS)	MAJOR (TK)		
II B.A. (ENG.)	MAJOR (MA)	MAJOR (JME)	TAMIL (RST)	MAJOR (MKE)	SBEC (KP)		
I B.A. (ENG.)	TAMIL (AST)	ENG. (X)	MAJOR (MKE)	MAJOR (KP)	MAJOR (JME)		
III BCOM – A	MAJOR (MNC)	MAJOR (RUV)	MAJOR (PE)	ALLIED (EP)	MAJOR (MNC)		
III BCOM – A III BCOM – B	MAJOR (PE)	MAJOR (SS)	ALLIED (SBC)	MAJOR (RUV)	MAJOR (RUV)		
II BCOM I BCOM	ALLIED (KC)	MAJOR (MNC)	PRAC. (MNC)	MAJOR (SS)	MAJOR (PE)		
IDCOM	ENG. (TK)	ECO. (SSE)	TAMIL (UK)	MAJOR (MNC)	MAJOR (SS)		
III B.B.A.	MAJOR (X)	MAJOR (SSB)	COMP. (ASC)	MAHRS (RK)	MAJOR (RRB)		
II B.B.A. I B.B.A.	MAJOR (RRB)	MAJOR (X)	MAJOR (RRB)	ALLIED (SSE)	MAJOR (SSB)		
I D.D.A.	TAMIL (AST)	ENG. (X)	ALLIED (VR)	MAJOR (SSB)	MAJOR (X)		
III BCOM (CA)	ALLIED (SSN)	MAJOR (SSCA)	MAJOR (RMK)	MAJOR (TRM)	MAJOR (TS)		
II BCOM (CA)	MAJOR (RMK)	MAJOR (TRM)	ALLIED (VB)	ALLIED (STN)	MAJOR (SM)		
I BCOM (CA)	TAMIL (RST)	MAJOR (NMC)	ALLIED (SIVA)	MAJOR (RMK)	ENG. (SRE)		
III B.Sc. (ELEC.)	MAJOR (SR)	MAJOR (PR)		MAJOR LAB (PR)	1		
I B.Sc. (ELEC.)	TAMIL (AST)	ENG. (KP)	SBEC (MN)	MAJOR (AK)	MAJOR (PR)		
III B.Sc.(CS)	MAJOR (ASC)	MAJOR (GSK)	MAJOR (SSN)	MAJOR (AS)	MAJOR (SSN)		
II B.Sc.(CS)	NMEC (SSB)	ENG. (JME)	MAJOR (MC)	TAMIL (KU)	MAJOR (VB)		
I B.Sc.(CS)-A I B.Sc.(CS)-B	← PLACMEN	$\Gamma \text{ LAB (MC) } \dashrightarrow \rightarrow$	ENG. (TK)	ALLIED (VR)	TAMIL (AST)		
~ /	←-M.Sc. LAB (S	IVAKUMAR) - \rightarrow	ALLIED (SA)	ENG. (SRE)	TAMIL (KST)		
III B.C.A.	MAJOR (MC)	MAJOR (VB)	MAJOR (AS)	\leftarrow PLACEMEN	$T \text{ LAB (GSK)} \rightarrow$		
II B.C.A.	NMEC (SSB)	MAJOR (EP)	← AI	LLIED ELEC. LAB	(PR)→		
I B.C.A.	MAJOR (SBC)	MAJOR (PB)	MAJOR (GSK)	TAMIL (RST)	ENG. (X)		
III B.Sc.(Maths)	MATHS (RK)	MATHS (KC)	MATHS (MG)	MATHS (SA)	MATHS (SSM)		
II B.Sc.(Maths) I B.Sc.(Maths)	ALLIED (VR)	MATHS (SSM)	TAMIL (KST)	SBEC (MG)	ENG. (PD)		
I B.SC.(Waths)	TAMIL (AST)	ENG. (KP)	MATHS (RK)	MATHS (JSM)	ALLIED (AK)		
III B.Sc.(Micro)	MAJOR (TRP)	MAJOR (TN)	÷	MAJOR LAB (APV	R LAB (APV)		
II B.Sc.(Micro) I B.Sc.(Micro)	MAJOR (TN)	ENG. (SRE)	TAMIL (AST)	← ALLIED	LAB (SBC)→		
1 D.SC. (MICIO)	ALLIED (JM)	TAMIL (KU)	MAJOR (TRP)	ENG. (PD)	MAJOR (TN)		
III B.Sc.(BT)	←	MAJOR LAB (KV)	→	MAJOR (RRW)	MAJOR (KVK)		
II B.Sc.(BT) I B.Sc.(BT)	ALLIED (GR)	ENG. (SRE)	TAMIL (AST)	MAJOR (KVK)	MAJOR (KV)		
I D.St.(DI)	MAJOR (ML)	ENG. (MA)	ALLIED (KK)	TAMIL (UK)	YOGA (AJ)		
III B.Sc.(Physics)	MAJOR (PR)	MAJOR (MN)	←	MAJOR LAB (PR)	→		
II B.Sc.(Physics)	MAJOR (MN)	NMEC (AS)	TAMIL (KST)	ALLIED	ENG. (PD)		
I B.Sc.(Physics)	TAMIL (AST)	ENG. (KP)	MAJOR (AK)	MAJOR (MN)	MAJOR (MN)		
III B.Sc.(Chemistry)			← PHYSIC	CAL CHEMISTRY	LAB (X) \rightarrow		
II B.Sc.(Chemistry)	ALLIED (AK)	NMEC	TAMIL (KST)		ENG. (PD)		
I B.Sc.(Chemistry)	TAMIL (AST)	ENG. (KP)					
II B.Sc.(Bioche)	ALLIED (GR)	SBEC (KK)	TAMIL (RST)	MAJOR (PSK)	ENG. (PD)		
I B.Sc.(Bioche)	TAMIL (AST)	ENG. (KP)	MAJOR (PSK)	ALLIED	P.ENG. (KK)		
III B.Sc.(Botany)	MAJOR (GD)	MAJOR (GD)	MAJOR (GD)	MAJOR (DM)	MAJOR (DM)		
II B.A. (TAMIL)	MAJOR (KU)	MAJOR (UK)	TAMIL (RST)	SBEC (AST)	ENG. (PD)		
I B.A. (TAMIL)	TAMIL (AST)	ENG. (X)	MAJOR (KU)	ALLIED (KST)	YOGA (UK)		



		IV - DAY (ORDER		
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	MAJOR (TK)	MAJOR (PD)	MAJOR (JM)	MAJOR (KP)	MAJOR (MA)
II B.A. (ENG.)	ENG. (JME)	TAMIL (RST)	MAJOR (MA)	SBEC (PD)	MAJOR (MKE)
I B.A. (ENG.)	MAJOR (MKE)	MAJOR (KP)	ENG. (X)	MAJOR (JME)	TAMIL (AST)
III BCOM – A	MAJOR (MNC)	MAJOR (PE)	ALLIED (EP)	MAJOR (RUV)	MAJOR (PE)
III BCOM – A III BCOM – B	MAJOR (SS)	MAJOR (RUV)	MAJOR (PE)	ALLIED (SBC)	MAJOR (RUV)
II BCOM I BCOM	MAJOR (PE)	ALLIED (KC)	MAJOR (MNC)	←- PLACEMEN'	Γ LAB (MNC) ->
IDCOM	ECO (SSE)	ENG. (TK)	MAJOR (SS)	TAMIL (UK)	MAJOR (SS)
III B.B.A.	MAJOR (X)	COMP. (ASC)	MAJOR (RRB)	MAJOR (SSB)	MAJOR (SSB)
II B.B.A. I B.B.A.	MAJOR (RRB)	MAJOR (X)	NMEC (PR)	ALLIED (SSE)	MAJOR (X)
I D.D.A.	MAJOR (SSB)	ALLIED (SA)	ENG. (X)	MAJOR (RRB)	TAMIL (AST)
III BCOM (CA)	MAJOR (TRM)	ALLIED (SSN)	MAJOR (RMK)	MAJOR (SM)	MAJOR (NMC)
II BCOM (CA) II BCOM (CA) I BCOM (CA)	ALLIED (STN)	MAJOR (TRM)	NMEC (MG)	MAJOR (TS)	MAJOR (RMK)
I DCOM (CA)	MAJOR (NMC)	YOGA (TS)	ALLIED (SIVA)	TAMIL (RST)	ENG. (SRE)
III B.Sc. (ELEC.)	MAJOR (SR)	MAJOR (PR)	MAJOR (SR)	MAJOR (AK)	MAJOR (PR)
I B.Sc. (ELEC.)	MAJOR (PR)	ALLIED (RK)	ENG. (SRE)	ALLIED (SSM)	TAMIL (AST)
III B.Sc.(CS)	← PLA	ACEMENT LAB (A	S)→	MAJOR (ASC)	MAJOR (GSK)
II B.Sc.(CS)	ENG. (JME)	ALLIED (AK)	TAMIL (KU)	\leftarrow ALLIED ELI	EC. LAB (SR) \rightarrow
I B.Sc.(CS)-A I B.Sc.(CS)-B	TAMIL (AST)	MAJOR (MC)	ALLIED (GR)	ENG. (TK)	MAJOR (VB)
I D.SC.(CS)-D	TAMIL (KST)	MAJOR (SK)	ENG. (SRE)	ALLIED (SA)	MAJOR (SK)
III B.C.A.	MAJOR (MC)	MAJOR (GSK)	MAJOR (VB)	MAJOR (AS)	MAJOR (MC)
II B.C.A. I B.C.A.	MAJOR (EP)	ALLIED (AK)	MAJOR (ASC)	← M.Sc. LA	AB (SSN)→
I D.C.A.	TAMIL (RST)	ALLIED (RK)	MAJOR (SBC)	ALLIED (SSM)	ENG. (X)
III B.Sc.(Maths)	MATHS (RK)	MATHS (SSM)	MATHS (SA)	MATHS (KC)	MATHS (VR)
II B.Sc.(Maths) I B.Sc.(Maths)	ENG. (PD)	TAMIL (KST)	MATHS (JSM)	ALLIED (VR)	NMEC (RST)
I D.SC.(Waths)	P.E. (SA)	MATHS (JSM)	ENG. (KP)	ALLIED (MN)	TAMIL (AST)
III B.Sc.(Micro)	MAJOR (APV)	MAJOR (PAK)	MAJOR (TN)	MAJOR (TN)	MAJOR (PAK)
II B.Sc.(Micro)	ALLIED (SBC)	ALLIED (EP)	TAMIL (AST)	ENG. (SRE)	MAJOR (TN)
I B.Sc.(Micro)	MAJOR (TRP)	ALLIED (PSK)	MAJOR (TRP)	TAMIL (KU)	ENG. (PD)
III B.Sc.(BT)	MAJOR (ML)	MAJOR (RRW)	←	- MAJOR LAB (AJ)	→
II B.Sc.(BT)	MAJOR (AJ)	MAJOR (KVK)	TAMIL (AST)	ENG. (SRE)	ALLIED (GR)
I B.Sc.(BT)	ALLIED (KK)	MAJOR (ML)	ALLIED (PSK)	ENG. (MA)	TAMIL (UK
III B.Sc.(Physics)	MAJOR (MN)	MAJOR (MN)	MAJOR (AK)	MAJOR (PR)	MAJOR (AK)
II B.Sc.(Physics)	ENG. (PD)	TAMIL (KST)	MAJOR (MN)	ALLIED (CHE)	MAJOR (MN)
I B.Sc.(Physics)	MAJOR (AK)	ALLIED (RK)	ENG. (KR)	ALLIED (SSM)	TAMIL (AST)
III B.Sc.(Chemistry)	←		MAJOR LAB		>
II B.Sc.(Chemistry) II B.Sc.(Chemistry)	ENG. (PD)	TAMIL (KST)	←	MAJOR LAB (Y)	→
I B.Sc.(Chemistry)		ALLIED (RK)	ENG. (KP)	ALLIED (SSM)	TAMIL (AST)
II B.Sc.(Bioche)	ENG. (PD)	TAMIL (RST)		E PRACTICAL - II	
I B.Sc.(Bioche)	ALLIED	P.ENG (KK)	ENG. (KP)	MAJOR (PSK)	TAMIL (AST)
III B.Sc.(Botany)	MAJOR (GD)	MAJOR (DM)	MAJOR (DM)	MAJOR (FSR)	MAJOR (DM)
II B.A. (TAMIL)	ENG. (PD)	TAMIL (RST)	MAJOR (KST)	NMEC (AST)	MAJOR (KU)
I B.A. (TAMIL)	MAJOR (KU)	MAJOR (UK)	ENG. (X)	ALLIED (KST)	TAMIL (AST)



		V - DAY O	RDER		
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	MAJOR (JME)	MAJOR (MA)	MAJOR (KP)	MAJOR (TK)	MAJOR (PD)
II B.A. (ENG.)	MAJOR (MKE)	TAMIL (RST)	MAJOR (MA)	NMEC (X)	ENG. (JME)
I B.A. (ENG.)	ENG. (X)	TAMIL (AST)	MAJOR (JME)	MAJOR (KP	MAJOR (MKE)
III BCOM – A	MAJOR (MNC)	ALLIED (EP)	MAJOR (PE)	MAJOR (RUV)	MAJOR (MNC)
III BCOM – A III BCOM – B	MAJOR (RUV)	ALLIED (SBC)	MAJOR (MNC)	MAJOR (SS)	MAJOR (PE)
II BCOM I BCOM	MAJOR (PE)	MAJOR (SS)	ALLIED (KC)	MAJOR (MNC)	NMEC (RRB)
	MAJOR (SS)	TAMIL (UK)	MAJOR (SS)	MAJOR (PER)	ENG. (TK)
III B.B.A.	MAJOR (SSB)	MAJOR (X)	MAJOR (SSB)	MAJOR ((RRB)	MATHS (RK)
II B.B.A. I B.B.A.	MAJOR (X)	MAJOR (RRB)	ALLIED (SSE)	MAJOR (SSB)	MAJOR (X)
1 D.D.A.	ENG. (X)	TAMIL (AST)	MAJOR (X)	ALLIED (SA)	MAJOR (SSB)
III BCOM (CA)	MAJOR (RMK)	MAJOR (TRM)	ALLIED (SSN)	MAJOR (TS)	MAJOR (SM)
II BCOM (CA) I BCOM (CA)	MAJOR (TS)	ALLIED (STN)	MAJOR (SM)	MAJOR (TRM)	ALLIED (VB)
I DCOM (CA)	MAJOR (NMC)	YOGA (TS)	MAJOR (NMC)	ENG. (SRE)	TAMIL (RST)
III B.Sc. (ELEC.)	MAJOR (SR)	MAJOR (AK)	LIBRARY	MAJOR (PR)	MAJOR (SR)
I B.Sc. (ELEC.)	ENG. (SRE)	TAMIL (AST)	MAJOR (PR)	ALLIED (SSM)	LIBRARY
III B.Sc.(CS)	MAJOR (ASC)	MAJOR (GSK)	MAJOR (AS)	MAJOR (GSK)	MAJOR (SSN)
II B.Sc.(CS)	← PLACEMENT LAB (EP)→		MAJOR (MC)	TAMIL (KU)	ENG. (JME)
I B.Sc.(CS)-A I B.Sc.(CS)-B	ALLIED (VR)	ENG. (TK)	TAMIL (AST)	← PLACEME	NT LAB (MC) \rightarrow
1 D.SC.(CS)-D	ALLIED (SA)	TAMIL (KST)	ENG. (SRE)	←- M.Sc. LAB (SI	VAKUMAR) -→
III B.C.A. II B.C.A.	MAJOR (MC)	MAJOR (PB)	MAJOR (GSK)	MAJOR (VB)	MAJOR (PB)
	MAJOR (SK)	MAJOR (ASC)	MAJOR (SK)	MAJOR (ASC)	MAJOR (EP)
I B.C.A.	MAJOR (PB)	ENG. (X)	TAMIL (RST)	ALLIED (SSM)	MAJOR (SBC)
III B.Sc.(Maths)	MATHS (SSM)	MATHS (JSM)	MATHS (RK)	MATHS (MG)	MATHS (VR)
II B.Sc.(Maths) I B.Sc.(Maths)	MATHS (GR)	ALLIED (VR)	SBEC (MG)	ENG. (PD)	TAMIL (KST)
I D.St. (Waths)	ENG. (SRE)	TAMIL (AST)	MATHS (JSM)	MATHS (RK)	ALLIED (AK)
III B.Sc.(Micro)	MAJOR (TRP)	MAJOR (APV)	MAJOR (PAK)	MAJOR (PAK)	MAJOR (APV)
II B.Sc.(Micro)	TAMIL (AST)	ENG. (SRE)	← №	MAJOR LAB TRP/T	N→
I B.Sc.(Micro)	MAJOR (TN)	TAMIL (KU)	ENG. (PD)	MAJOR (TRP)	ALLIED (JM)
III B.Sc.(BT)	MAJOR (AJ)	MAJOR (AJ)	MAJOR (ML)	MAJOR (KVK)	MAJOR (KV)
II B.Sc.(BT) I B.Sc.(BT)	TAMIL (AST)	ENG. (SRE)	ALLIED (GR)	MAJOR (ML)	MAJOR (KVK)
I D.D.(DI)	MAJOR (ML)	ALLIED (PSK)	TAMIL (UK)	MAJOR (KV)	ENG. (MA)
III B.Sc.(Physics)	MAJOR (AK)	MAJOR (PR)	MAJOR (MN)	MAJOR (AK)	MAJOR (MN)
II B.Sc.(Physics) I B.Sc.(Physics) I B.Sc.(Physics)	SBEC (PR)	NMEC (AS)	ALLIED (CHE)	ENG. (PD)	TAMIL (KST)
1 D.SC.(1 Hysics)	ENG. (SRE)	TAMIL (AST)	MAJOR (AK)	ALLIED (SSM)	LIBRARY
III B.Sc.(Chemistry)	←		MAJOR LAB		→
II B.Sc.(Chemistry)	ALLIED (MN)	NMEC (AS)		ENG. (PD)	TAMIL (KST)
I B.Sc.(Chemistry)	ENG. (SRE)	TAMIL (AST)	←	MAJOR LAB (Z)	⊥→
II B.Sc.(Bioche)	SBEC (KK)	TAMIL (RST)	ALLIED (GR)	ENG. (SRE)	NMEC
I B.Sc.(Bioche)	ENG. (SRE)	TAMIL (AST)	P.ENG. (PSK)	← CORE PRAC	⊥ CTICAL (PSK)→
III B.Sc.(Botany)		MAJOR LAB (DM)	· · · · · ·	MAJOR (GD)	MAJOR (DM)
II B.A. (TAMIL)	MAJOR (UK)	TAMIL (RST)	MAJOR (KST)	ENG. (PD)	NMEC (AST)
I B.A. (TAMIL)	ENG. (X)	TAMIL (AST)	MAJOR (KU)	YOGA (KST)	MAJOR (UK)



		VI - DAY (ORDER		
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour
III B.A. (ENG.)	MAJOR (PD)	MAJOR (KP)	MAJOR (TK)	MAJOR (MA)	MAJOR (JM)
II B.A. (ENG.)	TAMIL (RST)	ENG. (JME)	NMEC (X)	ENG. (MKE)	ENG. (MA)
I B.A. (ENG.)	ENG. (X)	TAMIL (AST)	MAJOR (MKE)	MAJOR (JME)	MAJOR (KP)
	MAJOR (MNC)	MAJOR (PE)	MAJOR (MNC)	ALLIED (EP)	MAJOR (RUV)
III BCOM – A III BCOM – B	MAJOR (PE)	MAJOR (SS)	ALLIED (SBC)	MAJOR (MNC)	MAJOR (MNC)
II BCOM I BCOM I BCOM	MAJOR (RUV)	MAJOR (RUV)	MAJOR (PE)	ALLIED (KC)	MAJOR (PE)
IDCOM	MAJOR (SS)	ENG. (TK)	ECO. (SSE)	MAJOR (SS)	TAMIL (UK)
III B.B.A.	MATHS (RK)	MAJOR (X)	MAJOR (SSB)	COMP. (ASC)	MAJOR (X)
II B.B.A.	ALLIED (SSE)	MAJOR (RRB)	MAJOR (X)	MAJOR (SSB)	SBEC (SSE)
I B.B.A.	ENG. (X)	TAMIL (AST)	ALLIED (SA)	MAJOR (RRB)	MAJOR (SSB)
III BCOM (CA)	MAJOR (SSCA)	MAJOR (TS)	MAJOR (RMK)	MAJOR (TRM)	ALLIED (SSN)
II BCOM (CA)	MAJOR (TS)	MAJOR (TRM)	ALLIED (GSK)	ALLIED (STN)	MAJOR (RMK)
I BCOM (CA)	MAJOR (NMC)	MAJOR (RMK)	ENG. (SRE)	TAMIL (RST)	ALLIED (SIVA)
III B.Sc. (ELEC.)	MAJOR (PR)	MAJOR (SR)	MAJOR (PR)	MAJOR (AK)	MAJOR (SR)
I B.Sc. (ELEC.)	ENG. (KP)	TAMIL (AST)	ALLIED (SSM)	YOGA (MN)	MAJOR (PR)
III B.Sc.(CS)	MAJOR (AS)	MAJOR (ASC)	← PL	ACEMENT LAB (R	SK)→
II B.Sc.(CS)	MAJOR (MC)	ENG. (JME)	MAJOR (VB)	ALLIED (PR)	TAMIL (KU)
I B.Sc.(CS)-A I B.Sc.(CS)-B	ENG. (TK)	MAJOR (MC)	TAMIL (AST)	ALLIED (VR)	YOGA (MC)
	MAJOR (SK)	YOGA (SK)	TAMIL (KST)	ENG. (SRE)	ALLIED (SA)
III B.C.A.	MAJOR (VB)	MAJOR (GSK)	MAJOR (PB)	MAJOR (GSK)	MAJOR (AS)
II B.C.A. I B.C.A.	MAJOR (ASC)	MAJOR (EP)	MAJOR (SSN)	ALLIED (PR)	OS (EPR)
I B.C.A.	ENG. (X)	TAMIL (RST)	ALLIED (SSM)	← M.Sc. L.	AB (PB)→
III B.Sc.(Maths)	MAJOR (VR)	MATHS (SA)	MATHS (JSM)	MATHS (RK)	MATHS (KC)
II B.Sc.(Maths) I B.Sc.(Maths)	MATHS (SSM)	TAMIL (KST)	ENG. (PD)	SBEC (MG)	MATHS (GR)
	ENG. (KP)	TAMIL (AST)	MATHS (RK)	P.E. (SA)	ALLIED (MN)
III B.Sc.(Micro)	MAJOR (TRP)	MAJOR (PAK)	MAJOR (TN)	MAJOR (PAK)	MAJOR (APV)
II B.Sc.(Micro)	MAJOR (TN)	ALLIED (SBC)	MAJOR (TRP)	TAMIL (AST)	ENG. (SRE)
I B.Sc.(Micro)	MAJOR (APV)	ALLIED (JM)	TAMIL (KU)	ALLIED (PSK)	ENG. (PD)
III B.Sc.(BT)	MAJOR (ML)	MAJOR (AJ)	MAJOR (RRW)	MAJOR (KVK)	MAJOR (AJ)
II B.Sc.(BT) I B.Sc.(BT)	MAJOR (KV)	ALLIED (GR)	MAJOR (ML)	TAMIL (AST)	ENG. (SRE)
I D.SC.(DI)	ENG. (MA)	MAJOR (KV)	YOGA (AJ)	TAMIL (UK)	ALLIED (KK)
III B.Sc.(Physics)	MAJOR (MN)	MAJOR (AK)	MAJOR (MN)	LIBRARY	MAJOR (AK)
II B.Sc.(Physics)	ALLIED (CHE)	TAMIL (KST)	ENG. (PD)	← ALLIED C	HE. LAB (X) \rightarrow
I B.Sc.(Physics)	ENG. (KP)	TAMIL (AST)	ALLIED (SSM)	YOGA (MN)	MAJOR (PR)
III B.Sc.(Chemistry)	←		MAJOR LAB		→
II B.Sc.(Chemistry) II B.Sc.(Chemistry)	ALLIED (AK)	TAMIL (KST)	ENG. (PD)		
I B.Sc.(Chemistry)	ENG. (KP)	TAMIL (AST)	ALLIED (SSM)		
II B.Sc.(Bioche)	TAMIL (RST)	ALLIED (GR)	ENG. (PD)	SBEC (KK)	MAJOR (JM)
I B.Sc.(Bioche)	ENG. (KP)	TAMIL (AST)		LLIED CHE. LAB	
III B.Sc.(Botany)		MAJOR LAB (DM)		MAJOR (GD)	MAJOR (DM)
II B.A. (TAMIL)	TAMIL (RST)	MAJOR (KU)	ENG. (PD)	MAJOR (KST)	SBEC (AST)
I B.A. (TAMIL)	ENG. (X)	TAMIL (AST)	MAJOR (UK)	MAJOR (KU)	ALLIED (KST)

I - DAY ORDER							
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour		
III B.A. (ENG.)	MAJOR (KP)	MAJOR (MA)	MAJOR (PD)	ALLIED(JME)	PRACTICAL-X2		
II B.A. (ENG.)	ALLIED(MKE)	ENG.(PD)	TAMIL(KST)	SBEC(X2)	MAJOR(TK)		
I B.A. (ENG.)	MAJOR(JME)	TAMIL(AST)	ENG.(KP)	ALLIED(MKE)	MAJOR(KP)		
III BCOM- A	MAJOR(RUV)	MAJOR(PER)	MAJOR(MNC)	MAJOR(PER)	MAJOR(RUV)		
III BCOM - B	MAJOR(MNC)	MAJOR(RUV)	MAJOR(RUV)	MAJOR(SS)	MAJOR(MNC)		
II BCOM	MAJOR(SS)	MAJOR(MNC)	NMEC (RRV)	ALLIED(RK)	MAJOR (SS)		
I BCOM	ENG. (TK)	LAB (SS)	TAMIL (UK)	MAJOR (MNC)	MAJOR(PER)		
III B.B.A.	MAJOR(RRB)	MAJOR(SSB)	LAB (X)	MAJOR(SSB)	COMP (ASC)		
II B.B.A.	ALLIED (SSE)	MAJOR(RRB)	MAJOR(SSB)	COMP (EPR)	MAJOR(RRB)		
I B.B.A.	MAJOR(SSB)	TAMIL (AST)	ENG. (KP)	ALLIED (SSE)	MAJOR(SSB)		
III BCOM (CA)	MAJOR(TRM)	MAJOR(RMK)	MAJOR(TS)	MAJOR(RMK)	MAJOR(NMC)		
II BCOM (CA)	MAJOR (SM)	ALLIED (GR)	COMP (VB)	MAJOR (TS)	MAJOR (RMK)		
I BCOM (CA)	MAJOR (NMC)	TAMIL (RST)	ENG. (SRE)	MAJOR (SM)	COMP (SSCA)		
III B.Sc. (ELEC.)	MAJOR(SR)	MAJOR(AK)	←	PROJECT(SR)	→		
I B.Sc. (ELEC.)	ALLIED(SSM)	TAMIL (AST)	ENG.(SRE)	EVS (MN)	MAJOR(AK)		
III B.Sc.(CS)	MAJOR(SB)	MAJOR(SSCA)	←PLACE	MENT COMP. LAB	(SSN)→		
II B.Sc.(CS)	TAMIL(KU)	ENG.(JME)	ALLIED (SR)	←ALLIED I	AB(SR)		
I B.Sc.(CS) –A	←PLACEM	ENT COMP. LAB (N	MC)→	TAMIL(AST) ENG.(X1)			
I B.Sc. (CS) – B	MAJOR(SSCA)	MAJOR(VB)	ALLIED(SA)	TAMIL(KST)	ENG.(SRE)		
III B.C.A.	MAJOR (SBC)	MAJOR (SSN)	MAJOR (GSK)	MAJOR (MC)	MAJOR (EPR)		
II B.C.A.	←MAJOR C	COMP. LAB (AC)	>	MAJOR (ASC) MAJOR (AS			
I B.C.A.	ALLIED (SSM)	MAJOR (EPR)	TAMIL (RST)	ENG.(X1)	MAJOR (GSK)		
III B.Sc.(Maths)	MAJOR (KC)	MAJOR(STN)	MAJOR(RK)	←MAJOR L	$AB(MG) \dots \rightarrow$		
II B.Sc.(Maths)	MAJOR (SA)	ENG. (PD)	TAMIL (KST)	←MAJOR L	AB(MG)→		
III B.Sc.(Micro)	MAJOR (TRP)	MAJOR (PAK)	←	MAJOR LAB(TRP)	>		
II B.Sc.(Micro)	MAJOR (TN)	ENG. (SRE)	TAMIL (AST)	MAJOR (SBC)	MAJOR (TRP)		
I B.Sc.(Micro)	ENG (X1)	TAMIL (KU)	←AL	LIED BIO LAB(JA	→ (IV		
III B.Sc.(BT)	MAJOR (KV)	MAJOR (AJ)	MAJOR (KVK)	MAJOR (ML)	MAJOR (AJ)		
II B.Sc.(BT)	MAJOR (KVK)	ENG. (SRE)	TAMIL (AST)	ALLIED	MAJOR (MC)		
I B.Sc.(BT)	MAJOR (ML)	ALLIED(KK)	MAJOR (SSBT)	ENG. (MA)	TAMIL (RST)		
III B.Sc.(Physics)	MAJOR (X)	MAJOR (MN)	MAJOR (AK)	MAJOR (X)	MAJOR (SR)		
II B.Sc.(Physics)	MAJOR (MM)	ENG. (PD)	TAMIL (KST)	MAJOR (AJ)	ALLIED(GI)		
I B.Sc.(Physics)	ALLIED (SSM)	TAMIL (AST)	ENG. (PD)	EVS(MN)	MAJOR (AK)		
III B.Sc.(Chemistry)	←	N	AJOR LAB(GI/SR	D)	→		
II B.Sc.(Chemistry)	ALLIED (AK)	ENG. (PD)	TAMIL (KST)	MAJOR (AJ)	MAJOR (CR)		
II B.Sc.(Bioche)	SBEC (JM)	ENG. (PD)	TAMIL (KST)	MAJOR (MA)	MAJOR (MC)		
I B.Sc.(Bioche)	MAJOR (TSK)	TAMIL (AST)	ENG. (PD)	EVS(JM)	ALLIED(GI)		
III B.Sc.(Botany)	TAMIL (DM)	ELECTIVE (GD)	MAJOR (DM)	MAJOR (DM)	SBEC (GD)		
I BA,(Tamil)	ALLIED (KST)	TAMIL (AST)	ENG. (KP)	ALLIED (UK)	MAJOR (KU)		



II - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	
III B.A. (ENG.)	ALLIED (JME)	MAJOR (PD)	MAJOR (KP)	ALLIED(MA)	PRACTICAL(X2)	
II B.A. (ENG.)	ENG.(PD)	TAMIL(KST)	MAJOR(TK)	ALLIED(MKE)	SBEC-X2	
I B.A. (ENG.)	TAMIL(AST)	ENG.(KP)	ALLIED-(MKE)	MAJOR(JME)	MAJOR(KP)	
III BCOM –A	MAJOR (RUV)	MAJOR (PER)	MAJOR (SS)	MAJOR (PER)	MAJOR (PER)	
III BCOM - B	MAJOR (MNC)	MAJOR (RUV)	MAJOR (RUV)	MAJOR (SS)	MAJOR (SS)	
II BCOM	MAJOR (SS)	MAJOR (MNC)	LIB-(RK)	MAJOR (RUV)	MAJOR (MNC)	
I BCOM	TAMIL(UK)	MAJOR (PVR)	MAJOR (MNC)	MAJOR (MNC)	ENG.(TK)	
III B.B.A.	MAJOR (SSB)	ALLIED (ASL)	MAJOR (RRB)	MAJOR (RRB)	MAJOR (SSB)	
II B.B.A.	COMP (EPR)	MAJOR (RRB)	ALLIED (SSE)	MAJOR (SSB)	LIB (X)	
I B.B.A.	TAMIL(AST)	ENG.(KP)	MAJOR (SSB)	ALLIED (SSE)	MAJOR (RRB)	
III BCOM (CA)	MAJOR (RMK)	MAJOR (TS)	MAJOR (TRM)	MAJOR (NMC)	MAJOR (TS)	
II BCOM (CA)	←PLACE	EMENT COMP. LA	AB (VB)→	MAJOR (SM)	ALLIED(GR)	
I BCOM (CA)	MAJOR (NMC)	COMP (SSCA)	ENG. (SRE)	TAMIL (RST)	MAJOR (RMK)	
III B.Sc. (ELEC.)	MAJOR (SR)	MAJOR (MN)	←N	MAJOR. LAB (MN)→	
I B.Sc. (ELEC.)	TAMIL (AST)	ENG.(KP)	←N	MAJOR. LAB (MN)→	
III B.Sc.(CS)	MAJOR (ASC)	MAJOR (AS)	MAJOR (SSLR)	MAJOR (SBC)	MAJOR (SSN)	
II B.SC.(CS)	ALLIED (GSK)	ENG.(JME)	TAMIL(KU)	PLACEMENT CO	OMP. LAB (GSK)	
I B.Sc.(CS)-A	ALLIED(VR)	MAJOR (SBC)	MAJOR (MC)	ENG.(X1)	TAMIL(AST)	
I B.Sc.(CS)-B	MAJOR(SSCA)	ALLIED(SA)		ENG.(SRE)	TAMIL(KST)	
III B.C.A.	MAJOR (MC)	MAJOR (GSK)	MAJOR (SSN)	MAJOR (SBC)	MAJOR (MC)	
II B.C.A.	ALLIED (AK)	MAJOR (SSN)	MAJOR (AS)	MAJOR (ASL)	MAJOR (AS)	
I B.C.A.	ENG.(X1)	TAMIL(RST)	←	M.SC. LAB (EPR)	→	
III B.Sc.(Maths)	MAJOR(GR)	MAJOR(KC)	MAJOR(SSM)	MAJOR(RK)	LIB.(MG)	
II B.Sc.(Maths)	ENG.(PD)	TAMIL(KST)	MAJOR(SA)	MAJOR(VR)	NMEC(UK)	
III B.Sc.(Micro)	MAJOR (TN)	MAJOR (TRP)	MAJOR (APV)	MAJOR (SN)	MAJOR (TRP)	
II B.Sc.(Micro)	ENG.(SRE)	TAMIL(AST)	MAJOR (SBC)	MAJOR (TRP)	MAJOR (APV)	
I B.Sc.(Micro)	TAMIL(KU)	ENG.(X1)	←	MAJOR. LAB (TN))→	
III B.Sc.(BT)	MAJOR (KV)	MAJOR (ML)	MAJOR (AJ)	MAJOR (KV)	MAJOR (AJ)	
II B.Sc.(BT)	ENG.(SRE)	TAMIL(AST)	← M	IAJOR. LAB (KVR)→	
I B.Sc.(BT)	TAMIL(RST)	ENG.(X1)	← A	ALLIED LAB (KK))→	
III B.Sc.(Physics)	MAJOR (MN)	MAJOR (AK)	← N	AJOR. LAB (MV))→	
II B.Sc.(Physics)	ENG.(PD)	TAMIL(KST)	MAJOR (AK)	← ALLIED	LAB (AK)→	
I B.Sc.(Physics)	TAMIL(AST)	ENG.(KP)	←	MAJOR. LAB (MI	N)→	
III B.Sc.(Chemistry)	MAJOR (SRD)	MAJOR (GI)	MAJOR (SRD)	MAJOR (CR)	MAJOR (SRD)	
II B.Sc.(Chemistry)	ENG.(PD)	TAMIL(KST)	← N	AJOR. LAB (MN))→	
II B.Sc.(Bioche)	ENG.(PD)	TAMIL(KST)	MAJOR (JM)	MAJOR (JM)	NMEC(CR)	
I B.Sc.(Bioche)	TAMIL(AST)	ENG.(KP)	← A	LLIED LAB (SRD)	→	
III B.Sc.(Botany)	MAJOR (DM)	ELECTIVE (GD)	MAJOR (DM)	SBEC (GD)	SBEC (DM)	
I BA.(Tamil)	TAMIL(AST)	ENG.(KP)	ALLIED(UK)	MAJOR (KU)	ALLIED(KST)	



III - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	
III B.A. (ENG.)	MAJOR (MA)	MAJOR (KP)	ALLIED (JME)	PRAC. (X)	MAJOR (PD)	
II B.A. (ENG.)	ENG. (PD)	TAMIL (KST)	ALLIED (MKE)	MAJOR (TK)	SBEC (X)	
I B.A. (ENG.)	MAJOR (JME)	ALLIED (MKE)	ENG. (DP)	TAMIL (AS)	MAJOR (KP)	
III BCOM – A	MAJOR (RUV)	MAJOR (MNC)	MAJOR (SS)	MAJOR (RUV)	MAJOR (SS)	
III BCOM – B	MAJOR (MNC)	LIBRARY	MAJOR (RUV)	MAJOR (MNC)	MAJOR (RUV)	
II BCOM	MAJOR (PER)	ALLIED (SA)	MAJOR (PER)	MAJOR (PER)	MAJOR (MNC)	
I BCOM	MAJOR (SS)	MAJOR (PER)	ENG.(TK)	TAMIL (UK)	MAJOR (PER)	
III B.B.A.	MAJOR(SSB)	MAJOR(RRB)	←	M.Sc. LAB (ASC	∑)→	
II B.B.A.	MAJOR(RRB)	MAJOR(SSB)	COMP. (EPR)	MAJOR(SSB)	ALLIED(SSE)	
I B.B.A.	ALLIED(SSE)	MAJOR(X)	ENG. (KP)	TAMIL (AST)	MAJOR(RRB)	
III BCOM (CA)	MAJOR(RMK)	MAJOR(TS)	MAJOR(NMC)	MAJOR(RMK)	MAJOR(TRM)	
II BCOM (CA)	ALLIED (GR)	MAJOR(SM)	MAJOR(TS)	← PLACEMEN	NT LAB (EPR) \rightarrow	
I BCOM (CA)	MAJOR(SM)	ENG. (SVE)	TAMIL (RST)	MAJOR(NMC)	MAJOR(RMK)	
III B.Sc. (ELEC.)	MAJOR(MN)	MAJOR(X)	←	MAJOR LAB (A	K)→	
I B.Sc. (ELEC.)	ALLIED (VR)	MAJOR(MN)	ENG. (EP)	TAMIL (AST)	ALLIED (SSM)	
III B.Sc.(CS)	← PL	ACEMENT LAB (A	AS)→	MAJOR (SBC)	MAJOR (SSCA)	
II B.Sc.(CS)	MAJOR (VB)	ALLIED	TAMIL (KU)	MAJOR (VB)	ENG. (JME)	
I B.Sc.(CS)-A	MAJOR (PB)	MAJOR (SBC)	TAMIL (AST)	ENG. (X)	ALLIED (VR)	
I B.Sc.(CS)-B	MAJOR (SSCA)	MAJOR (VB)	TAMIL (KST)	ALLIED (RK)	ENG. (SRE)	
III B.C.A.	←]	M.Sc. LAB (GSK) -	→	MAJOR (SBC)	MAJOR (MC)	
II B.C.A.	MAJOR (SSN)	ALLIED	←	ALLIED LAB (AK)	>	
I B.C.A.	MAJOR (EP)	ENG.(X)	ALLIED (SSM)	TAMIL (KST)	ALLIED (SSM)	
III B.Sc.(Maths)	MAJOR (SA)	MAJOR (STN)	MAJOR (STN)	MAJOR (KC)	MAJOR (RK)	
II B.Sc.(Maths)	MAJOR (PD)	TAMIL (KST)	MAJOR (VR)	MAJOR (SA)	NMEC (UK)	
III B.Sc.(Micro)	MAJOR (TN)	MAJOR (PAK)	MAJOR (APV)	← MAJOR LA	B (PAK)→	
II B.Sc.(Micro)	ENG. (SRE)	TAMIL (AST)	←	(SBC)	→	
I B.Sc.(Micro)	ENG. (X)	MAJOR(TN)	ALLIED (PSK)	TAMIL (KU)	MAJOR(APV)	
III B.Sc.(BT)	MAJOR(ML)	MAJOR(KV)	←	MAJOR LAB (KV))→	
II B.Sc.(BT)	ENG. (SRE)	TAMIL (AST)	MAJOR(KVK)	MAJOR(RRW)	MAJOR(GD)	
I B.Sc.(BT)		TAMIL (RST)	ALLIED (PSK)	ALLIED (KK)	ENG. (MA)	
III B.Sc.(Physics)	MAJOR(AK)	MAJOR(SR)	←]	MAJOR LAB (AK)	→	
II B.Sc.(Physics)	ENG. (PD)	TAMIL (KST)	←	MAJOR LAB (AK))→	
I B.Sc.(Physics)	ALLIED (VR)	MAJOR(MN)	ENG. (KP)	TAMIL (AST)	ALLIED (SSM)	
III B.Sc.(Chemistry)	MAJOR (SPD)	MAJOR (CR)	MAJOR (SRD)	MAJOR (SRD)	MAJOR (CR)	
II B.Sc.(Chemistry)	ENG. (PD)	TAMIL (KST)	←	MAJOR LAB (CR)	→	
II B.Sc.(Bioche)	ENG. (PD)	TAMIL (KST)	←	MAJOR LAB (JM)→	
I B.Sc.(Bioche)	MAJOR (KK)	P.E. (PSK)	ENG. (KP)	TAMIL (AST)	ALLIED (GI)	
III B.Sc.(Botany)	MAJOR(DM)	MAJOR(GD)	SBEC(DM)	MAJOR(GD)	MAJOR(DM)	
I B.A. (TAMIL)	ALLIED (UK)	MAJOR (KU)	ENG.(KP)	TAMIL (AST)	ALLIED (KST)	



IV - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	
III B.A. (ENG.)	MAJOR (PD)	MAJOR (MA)	ALLIED (JM)	MAJOR (KP)	PRAC. (X)	
II B.A. (ENG.)	MAJOR (TK)	ALLIED (MK)	SBEC (X)	TAMIL (KST)	ENG. (PD)	
I B.A. (ENG.)	MAJOR (KP)	MAJOR (JME)	ENG. (KP)	ALLIED (MKE)	TAMIL (AST)	
III BCOM – A	MAJOR (MNC)	MAJOR (PER)	MAJOR (RUV)	MAJOR (SS)	LIB. (PER)	
III BCOM – B	MAJOR (RUV)	MAJOR (MNC)	MAJOR (MNC)	MAJOR (RUV)	MAJOR (RUV)	
II BCOM	ALLIED (RK)	MAJOR (SS)	MAJOR (PER)	← MBA LAI	B (MNC)→	
I BCOM	MAJOR (SS)	ENG. (TK)	TAMIL (UK)	MAJOR (PER)	MAJOR (SS)	
III B.B.A.	MAJOR (RRB)	MAJOR (SSB)	COMP. (ASC)	MAJOR (SSB)	MAJOR (RRB)	
II B.B.A.	ALLIED (SSE)	COMP. (EPR)	NMEC (X)	MAJOR (RRB)	MAJOR (SSB)	
I B.B.A.	MAJOR (SSB)	MAJOR (RRB)	ENG. (KP)	ALLIED (SSE)	TAMIL (AST)	
III BCOM (CA)	MAJOR (TRM)	MAJOR (TS)	MAJOR (NM)	MAJOR (RMK)	MAJOR (SM)	
II BCOM (CA)	MAJOR (RMK)	ALLIED (GR)	ALLIED (GSK)	MAJOR (SM)	MAJOR (TS)	
I BCOM (CA)	MAJOR (SM)	ENG. (SRE)	TAMIL (RST)	MAJOR (NMC)	MAJOR (SSCA)	
III B.Sc. (ELEC.)	MAJOR (X)	MAJOR (SR)	LIBRARY	MAJOR (X)	MAJOR (AK)	
I B.Sc. (ELEC.)	MAJOR (X)	ALLIED (SSM)	ENG. (KP)	MAJOR (MN)	TAMIL (AST)	
III B.Sc.(CS)	MAJOR (AS)	MAJOR (SSCA)	MAJOR (SSCA)	MAJOR (AS)	MAJOR (SBC)	
II B.Sc.(CS)	ENG. (JME)	TAMIL (KU)	← PLACEMENT LAB (VB)			
I B.Sc.(CS)-A	ALLIED (VR)	MAJOR (SBC)	TAMIL (AST)	MAJOR (MC)	ENG. (X)	
I B.Sc.(CS)-B	ALLIED (SA)	MAJOR (VB)	TAMIL (KST)	ENG. (SRE)	MAJOR (PB)	
III B.C.A.	MAJOR (GSK)	MAJOR (SSN)	MAJOR (EP)	MAJOR (GSK)	MAJOR (SBC)	
II B.C.A.	MAJOR (ASC)	MAJOR (AS)	MAJOR (SSN)	← M.Sc. I	AB (SSN)→	
I B.C.A.	ENG. (X)	ALLIED (SSM)	TAMIL (RST)	MAJOR (EP)	ALLIED (SSM)	
III B.Sc.(Maths)	MAJOR (STN)	MAJOR (PK)	MAJOR (KC)	MAJOR (SSM)	MAJOR (GR)	
II B.Sc.(Maths)	MAJOR (GR)	MAJOR (VR)	MAJOR (VR)	TAMIL (KST)	ENG. (PD)	
III B.Sc.(Micro)	MAJOR (PAK)	MAJOR (TRP)	←	MAJOR LAB (APV	∕)→	
II B.Sc.(Micro)	MAJOR (SBC)	MAJOR (SN)	MAJOR (TN)	TAMIL (AST)	ENG. (SRE)	
I B.Sc.(Micro)	MAJOR (TRP)	ALLIED (JM)	MAJOR (SN)	ENG. (X)	TAMIL (KU)	
III B.Sc.(BT)	MAJOR (AJ)	MAJOR (KVK)	MAJOR (AJ)	MAJOR (KV)	MAJOR (AJ)	
II B.Sc.(BT)	←	ALLIED LAB ()	→	TAMIL (AST)	MAJOR (GD)	
I B.Sc.(BT)	←]	MAJOR LAB (ML)	<i>></i>	TAMIL (RST)	ENG. (MA)	
III B.Sc.(Physics)	MAJOR (SR)	MAJOR (AK)	MAJOR (MN)	MAJOR (AK)	MAJOR (MN)	
II B.Sc.(Physics)	MAJOR (MN)	ALLIED (GI)	MAJOR (AK)	TAMIL (KST)	ENG. (PD)	
I B.Sc.(Physics)	MAJOR (AK)	ALLIED (SSM)	ENG. (KP)	MAJOR (MN)	TAMIL (AST)	
III B.Sc.(Chemistry)	←	MAJOR LAB (CR)	>	MAJOR (GI)	MAJOR (SRD)	
II B.Sc.(Chemistry)	MAJOR (CR)		POLY (SRD)	TAMIL (KST)	ENG. (PD)	
II B.Sc.(Bioche)	←	- M.Sc. LAB (MC) -	→	TAMIL (KST)	ENG. (PD)	
I B.Sc.(Bioche)	MAJOR (PSK)	ALLIED (GI)	ENG(KP)	P.E. (KK)	TAMIL (AST)	
III B.Sc.(Botany)	←	MAJOR LAB (DM))→	ELEC. (GD)	SBEC (DM)	
I B.A. (TAMIL)	MAJOR (KU)	ALLIED (KST)	ENG. (KP)	ALLIED (UK)	TAMIL (AST)	



V - DAY ORDER						
CLASS	I Hour	II Hour	III Hour	IV Hour	V Hour	
III B.A. (ENG.)	PRAC. (X)	MAJOR (KP)	MAJOR (MA)	MAJOR (PD)	ALLIED (JME)	
II B.A. (ENG.)	TAMIL (KST)	MAJOR (TK)	ENG. (PD)	NMEC	ALLIED (MKE)	
I B.A. (ENG.)	ALLIED (MKE)	TAMIL (AST)	ENG. (KP)	MAJOR (JME)	MAJOR (KP)	
III BCOM – A	MAJOR (SS)	MAJOR (PER)	MAJOR (RUV)	MAJOR (MNC)	MAJOR (RUV)	
III BCOM – B	MAJOR (MNC)	MAJOR (MNC)	MAJOR (MNC)	MAJOR (RUV)	MAJOR (MNC)	
II BCOM	ALLIED (RK)	MAJOR (RUV)	NMEC (RRB)	MAJOR (SS)	MAJOR (PER)	
I BCOM	ENG. (TK)	MAJOR (SS)	TAMIL (UK)	MAJOR (PER)	MAJOR (SS)	
III B.B.A.	MAJOR (SSB)	MAJOR (RRB)	MAJOR (SSB)	MAJOR (RRB)	MAJOR (SSB)	
II B.B.A.	MAJOR (RRB)	MAJOR (SSB)	ALLIED (SSE)	LIB. (X)	COMP. (EPR)	
I B.B.A.	ALLIED (SSE)	TAMIL (AST)	ENG. (KP)	MAJOR (SSB)	MAJOR (RRB)	
III BCOM (CA)	MAJOR (RMK)	MAJOR (NMC)	MAJOR (TRM)	MAJOR (RMK)	MAJOR (TS)	
II BCOM (CA)	MAJOR (SM)	MAJOR (TS)	ALLIED (GR)	MAJOR (TS)	COMP. (VB)	
I BCOM (CA)	TAMIL (RST)	ENG. (SRE)	MAJOR (NMC)	MAJOR (SM)	MAJOR (RMK)	
III B.Sc. (ELEC.)	MAJOR (SR)	MAJOR (X)	MAJOR (X)	MAJOR (SR)	MAJOR (X)	
I B.Sc. (ELEC.)	MAJOR (X)	TAMIL (AST)	ENG.(KP)	ALLIED (VR)	ALLIED 9SM)	
III B.Sc.(CS)	MAJOR (EPR)	MAJOR (ASC)	MAJOR (AS)	PLACEMENT	LAB (AS) -	
II B.Sc.(CS)	ENG. (JME)	MAJOR (VB)	TAMIL (KU)	ALLIED (AK)	NMEC	
I B.Sc.(CS)-A	ENG. (X)	ALLIED (VR)	MAJOR (SBC)	TAMIL (AST)	MAJOR (MC)	
I B.Sc.(CS)-B	← PL	ACEMENT LAB (S	SSC)→	TAMIL (KST) ENG. (SRE)		
III B.C.A.	MAJOR (SSN)	MAJOR (GSK)	MAJOR (MC)	← M.SC. LAB (GSK)		
II B.C.A.	MAJOR (AS)	MAJOR (SSN)	MAJOR (ASC)	ALLIED (AK)	MAJOR(NMEC)	
I B.C.A.	MAJOR (GSK)	MAJOR (PB)	ENG. (X)	TAMIL (RST)	ALLIED (SSM)	
III B.Sc.(Maths)	MAJOR (MG)	MAJOR (SSM)	MAJOR (SA)	MAJOR (SSM)	MAJOR (RK)	
II B.Sc.(Maths)	TAMIL (KST)	MAJOR (GR)	ENG. (PD)	MAJOR (SA)	ALLIED (VR)	
III B.Sc.(Micro)	MAJOR (PAK)	MAJOR (TN)	MAJOR (APV)	← (P	AK)→	
II B.Sc.(Micro)	← (SBC) M.	Sc.(C.S.) LAB (SBC	C) (SSN)→	ENG. (SRE)	TAMIL (AST)	
I B.Sc.(Micro)	ALLIED (PSK)	MAJOR(TRP)	MAJOR(TN)	ENG. (X)	TAMIL (KU)	
III B.Sc.(BT)	MAJOR (AJ)	MAJOR (ML)	←	MAJOR LAB (AJ)	→	
II B.Sc.(BT)	MAJOR (GD)	ALLIED (MC)	MAJOR (RRW)	ENG. (SRE)	TAMIL (AST)	
I B.Sc.(BT)	ALLIED (PSK)	ENG. (MA)	TAMIL (RST)	MAJOR (ML)	MAJOR (ML)	
III B.Sc.(Physics)	MAJOR (MN)	MAJOR (AK)	MAJOR (AK)	MAJOR (MN)	MAJOR (MN)	
II B.Sc.(Physics)	TAMIL (KST)	MAJOR (MN)	ENG. (PD)	LIB (X)	ALLIED (GI)	
I B.Sc.(Physics)	MAJOR (AK)	TAMIL (AST)	ENG. (KP)	ALLIED (VR)	ALLIED (SSM)	
III B.Sc.(Chemistry)	MAJOR (CR)	MAJOR (SRD)	MAJOR (GI)	LIB (CR)	MAJOR (SRD)	
II B.Sc.(Chemistry)	TAMIL (KST)	MAJOR (CR)	ENG. (PD)	LIB(CR)	MAJOR (CR)	
II B.Sc.(Bioche)	TAMIL (KST)	MAJOR (MC)	ENG. (PD)	NMEC (SRD)	MAJOR (JM)	
I B.Sc.(Bioche)	ALLIED (GI)	TAMIL (AST)	ENG. (KP)	← MAJOR	LAB (PSK)→	
III B.Sc.(Botany)	MAJOR(DM)	LIB(GD)	SBEC(DM)	MAJOR(DM)	MAJOR(GD)	
I B.A. (TAMIL)	MAJOR (KU)	TAMIL (AST)	ENG. (KP)	ALLIED (UK)	ALLIED (KST)	



CLASSI HourII HourIII HourIV HourIII B.A. (ENG.)MAJOR (PD)MAJOR (KP)MAJOR (MA)ALLIED (JME)PR	V Hour
III B.A. (ENG.)MAJOR (PD)MAJOR (KP)MAJOR (MA)ALLIED (JME)PR	
	RAC. (X2)
II B.A. (ENG.)MAJOR (TK)ALLIED (MKE)ENG. (PD)TAMIL (KST)NM	MEC
I B.A. (ENG.) MAJOR (KP) MAJOR (JME) ALLIED (MKE) TAMIL (AST) EN	NG. (KD)
III BCOM - AMAJOR (MNC)MAJOR (MNC)MAJOR (RUV)MAJOR (SS)MA	AJOR (MNC)
III BCOM - BMAJOR (SS)MAJOR (PER)MAJOR (MNC)MAJOR (PER)MA	AJOR (PER)S
II BCOMALLIED (RK)MAJOR (RUV)MAJOR (SS)MAJOR (MNC)MA	AJOR (RUV)
I BCOMMAJOR (PER)MAJOR (SS)MAJOR (PER)ENG. (TK)TA	AMIL (VR)
III B.B.A.MAJOR (RRB)MAJOR (SSB)LIB. (X)MAJOR (RRB)MA	AJOR (ASC)
II B.B.A. MAJOR (SSE) MAJOR (RRB) MAJOR (RRB) MAJOR (SSB) NM	MEC (X)
I B.B.A. MAJOR (SSB) LIB. (X) ALLIED (SSE) TAMIL (AST) EN	NG. (KP)
III BCOM (CA)MAJOR (TRM)MAJOR (RMK)MAJOR (NMC)MAJOR (TS)MA	AJOR (SM)
II BCOM (CA) MAJOR (SM) MAJOR (TS) SBEC (GSK) ALLIED (GR) NN	MEC (VR)
IBCOM (CA) ← PLACEMENT LAB (SSC)→ TAMIL (RST) EN	NG. (SRE)
III B.Sc. (ELEC.)MAJOR (SR)LIB.MAJOR (SR)MAJOR (MN)MA	AJOR (AK)
I B.Sc. (ELEC.) MAJOR (MN) MAJOR (X) MAJOR (X) TAMIL (AST) EN	NG. (KP)
III B.Sc.(CS)MAJOR (SBC)MAJOR (AS)MAJOR (SSN)MAJOR (ASC)MA	AJOR (EP)
II B.Sc.(CS) MAJOR (VB) ALLIED ENG. (JME) NMEC TA	AMIL (KU)
I B.Sc.(CS)-A TAMIL (AST) ALLIED (GR) MAJOR (MC) ALLIED (VR) EN	NG. (X)
I B.Sc.(CS)-B TAMIL (KST) ENG. (SRE) MAJOR (VB) ALLIED (SA) MA	AJOR (SSCA)
III B.C.A.MAJOR (SBC)MAJOR (SSN) \leftarrow M.Sc. LAB (SBC)	→
II B.C.A. MAJOR (ASC) ALLIED MAJOR (AS) NMEC MA	AJOR (SSN)
I B.C.A. MAJOR (GSK) MAJOR (EP) TAMIL (RST) ENG. (X) MA	AJOR (GSK)
III B.Sc.(Maths)MAJOR (SA)MAJOR (SSM)MAJOR (KC)MAJOR (STN)MA	AJOR (RK)
II B.Sc.(Maths)ALLIED (VR)ALLIED (VR)ENG. (PD)TAMIL (KST)MA	AJOR (SA)
III B.Sc.(Micro)MAJOR (APV)MAJOR (PAK)MAJOR (TRP)MAJOR (PAK)MA	AJOR (SN)
II B.Sc.(Micro)MAJOR (TRP)MAJOR (SBC)TAMIL (AST)ENG. (SRE)MA	AJOR (TN)
I B.Sc.(Micro) MAJOR (SN) ENG. (X) TAMIL (KU) ALLIED (JM) MA	AJOR (TRP)
III B.Sc.(BT)MAJOR (AJ)MAJOR (KV)MAJOR (AJ)MAJOR (KVK)MAJOR (KVK)	AJOR (AJ)
II B.Sc.(BT)MAJOR (KVK)ALLIED (MC)TAMIL (AST)ENG. (SRE)MA	AJOR (MC)
I B.Sc.(BT) ENG. (MA) MAJOR (AJ) MAJOR (ML) ALLIED (KK) MA	AJOR (SSBT)
III B.Sc.(Physics)MAJOR (AK)LIB. (X)LIB. (MN)MAJOR (AK)MA	AJOR (MN)
II B.Sc.(Physics)SBEC (X)ALLIED (GI)ENG. (PD)TAMIL (KST)NM	MEC (AS)
I B.Sc.(Physics) MAJOR (MN) MAJOR (X) MAJOR (AK) TAMIL (AST) EN	NG. (KP)
III B.Sc.(Chemistry) MAJOR (GI) MAJOR (SRD) MAJOR (CR) MAJOR (SRD) MA	AJOR (SRD)
II B.Sc.(Chemistry)MAJOR (CR)ENG. (DD)TAMIL (KST)MA	AJOR (AS)
II B.Sc.(Bioche)SBEC (KK)MAJOR (MC)ENG. (PD)TAMIL (KST)MA	AJOR (MC)
I B.Sc.(Bioche) EVS (RSK) ALLIED (GI) PE (KK) TAMIL (AST) EN	NG. (KP)
III B.Sc.(Botany) \leftarrow MAJOR LAB (DM) \rightarrow ELECTIVE(GD) SB	BEC(DM)
I B.A. (TAMIL) MAJOR (KU) ALLIED (KST) ALLIED (UK) TAMIL (AST) EN	NG. (KP)





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DEPARTMENT OF COMPUTER SCIENCE (UG)

B.Sc.(Computer Science) CLASS TIMETABLE (2022-2023 ODD SEMESTER)

I B.Sc.(C.S.) - A

DAY/ORDER	I	п	ш	IV	v
Ι	C (MC)	MATHS (VR)	PR. ENG. (VB)	ENG. (TK)	TAMIL (AST)
П	MATHS (VR)	C (MC)	ENG. (TK)	C (MC)	TAMIL (AST)
ш	← Placement lab (MC)→		ENG. (TK)	MATHS (VR)	TAMIL (AST)
IV	TAMIL (AST)	C (MC)	MATHS (VR)	ENG. (TK)	PR. ENG. (VB)
v	MATHS (VR)	ENG. (TK)	TAMIL (AST)	← Placement lab (MC)	
VI	ENG. (TK)	C (MC)	TAMIL (AST)	MATHS (VR)	YOGA (MC)

I B.Sc.(C.S.) - B

DAY/ORDER	I	п	ш	IV	v
Ι	MATHS (SA)	PR. ENG. (AS)	ENG. (SRE)	C (SK)	TAMIL (KST)
п	C (SK)	YOGA (SK)	ENG. (SRE)	MATHS (SA)	TAMIL (KST)
ш	←M.Sc. LAB (SIVAKUMAR)→		MATHS (SA)	ENG. (SRE)	TAMIL (KST)
IV	TAMIL (KST)	C (SK)	ENG. (SRE)	MATHS (SA)	C (SK)
v	MATHS (SA)	TAMIL (KST)	ENG. (SRE)	←M.Sc. LAB (SIVAKUMAR)	
VI	C (SK)	PR. ENG. (AS)	TAMIL (KST)	ENG. (SRE)	MATHS (SA)

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II B.Sc.(C.S.)

DAY/ORDER	I	п	ш	IV	v
I	ENG. (JME)	RDBMS (VB)	TAMIL (KU)	ALLIED (PR)	NMEC (SSB)
п	TAMIL (KU)	ENG. (JME)	← PLACEMENT LAB (VB)		
ш	NMEC (SSB)	ENG. (JME)	CN (MC)	TAMIL (KU)	RDBMS (VB)
IV	ENG. (JME)	ALLIED (AK)	TAMIL (KU)	← ALLIED LAB (SR)	
V	← PLACEMENT LAB (EP)→		CN (MC)	TAMIL (KU)	ENG. (JME)
VI	CN (MC)	ENG. (JME)	RDBMS (VB)	ALLIED (PR)	TAMIL (KU)

III B.Sc.(C.S.)

DAY/ORDER	I	п	ш	IV	v
Ι	MAJOR (SSN)	SIVAKUMAR	MAJOR (AS)	← PLACEMEN	NT LAB(AS)→
п	MAJOR (SSN)	MAJOR (ASC)	MAJOR (GSK)	MAJOR (AS)	SIVAKUMAR
ш	MAJOR (ASC)	MAJOR (GSK)	MAJOR (SSN)	MAJOR (AS)	MAJOR (SSN)
IV	← PLA	CEMENT LAB (A	AS)→	MAJOR (ASC)	MAJOR (GSK)
v	MAJOR (ASC)	MAJOR (GSK)	MAJOR (AS)	MAJOR (GSK)	MAJOR (AS)
VI	MAJOR (SSN)	MAJOR (ASC)	← (EPR) - PL	ACEMENT LAB(V	/B) (VB)→

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DEPARTMENT OF COMPUTER SCIENCE (UG)

B.C.A. CLASS TIMETABLE (2022-2023 ODD SEMESTER)

I B.C.A.

DAY/ORDER	I	п	ш	IV	V
I	MATHS (SSM)	C (SBC)	TAMIL (RST)	ENG.	MATHS (SSM)
П	← M.Sc. La	ıb (SBC)→	C (SBC)	TAMIL (RST)	ENG.
ш	P.E. (PB)	C (SBC)	P.E. (PB)	TAMIL (RST)	ENG.
IV	TAMIL (RST)	MATHS (RK)	YOGA (GSK)	MATHS (SSM)	ENG.
v	C (SBC)	ENG.	TAMIL (RST)	MATHS (SSM)	C (SBC)
VI	ENG.	TAMIL (RST)	MATHS (SSM)	← M.Sc. Lab (PB)→	

II B.C.A.

DAY/ORDER	I	п	ш	IV	v	
I	←]	M.Sc. LAB (ASC))→	ALLIED (PR)	NMEC (SSB)	
П	OS (EP)	DS (SSN)	DS(SIVAKUMAR)	RDBMS(ASC)	DS (SSN)	
ш	NMEC(SSB)	OS (EP)	← ALLIED LAB			
IV	OS (EP)	ALLIED (AK)	RDBMS (ASC) ← M.Sc. Lab (SSN →		ıb (SSN)	
V	DS(SIVAKUMAR)	RDBMS(ASC)	DS(SIVAKUMAR)	RDBMS(ASC)	OS (EP)	
VI	RDBMS(ASC)	OS (EP)	DS (SSN)	ALLIED (AK)	OS (EP)	

III B.C.A.

DAY/ORDER	I	п	ш	IV	V
I	← Pla	acement Lab (GSK	()→	MAJOR (VB)	MAJOR (MC)
п	MAJOR (GSK)	MAJOR (AS)	← M.Sc. LAB (EP)		
ш	MAJOR (AS)	MAJOR (VB)	MAJOR (MC)	←- PLACEMENT LAB(GSK)	
IV	MAJOR (MC)	MAJOR (GSK)	MAJOR (VB)	MAJOR (AS)	MAJOR (MC)
v	MAJOR (MC)	MAJOR (VB)	MAJOR (PB)	MAJOR (GSK)	MAJOR (PB)
VI	MAJOR (VB)	MAJOR (GSK)	MAJOR (PB)	MAJOR (MC)	MAJOR (AS)

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DEPARTMENT OF COMPUTER SCIENCE (UG)

B.Sc.(Computer Science) CLASS TIMETABLE (2022-2023 - EVEN SEMESTER)

I B.Sc.(C.S.) - A

DAY/ORDER	I	П	Ш	IV	V
I	← P	lacement Lab (MC)→	TAMIL (AST)	ENG. (X1)
П	ALLIED (VR)	MAJOR (SBC)	MAJOR (MC)	ENG. (X1)	TAMIL (AST)
ш	MAJOR (PB)	MAJOR (SBC)	TAMIL (AST)	ENG. (X)	ALLIED (VR)
IV	ALLIED (VR)	MAJOR (SBC)	TAMIL (AST)	MAJOR (MC)	ENG. (X)
V	ENG. (X)	ALLIED (VR)	MAJOR (SBC)	TAMIL (AST)	MAJOR (MC)
VI	TAMIL (AST)	ALLIED (GR)	MAJOR (MC)	ALLIED (VR)	ENG. (X)

I B.Sc.(C.S.) - B

DAY/ORDER	I	II	Ш	IV	V
I	MAJOR (SSCA)	MAJOR (VB)	ALLIED (SA)	TAMIL (KST)	ENG. (SRE)
Î.	MAJOR (SSCA)	ALLIED (SA)		ENG. (SRE)	TAMIL (KST)
ш	MAJOR (SSCA)	MAJOR (VB)	TAMIL (KST)	ALLIED (RK)	ENG. (SRE)
IV	ALLIED (SA)	MAJOR (VB)	TAMIL (KST)	ENG. (SRE)	MAJOR (PB)
v	$\leftarrow PLACEMENT LAB (SSC)$			TAMIL (KST)	ENG. (SRE)
VI	TAMIL (KST)	ENG. (SRE)	MAJOR (VB)	ALLIED (SA)	MAJOR (SSCA)

II B.Sc.(C.S.)

DAY/ORDER	I	II	Ш	IV	V
I	TAMIL (KU)	ENG. (JME)	ALLIED (SR)	← Allied I	
n	ALLIED (GSK)	ENG. (JME)	TAMIL (KU)	← Placement	Lab (GSK) \rightarrow
Ш	MAJOR (VB)	ALLIED (TAMIL (KU)	MAJOR (VB)	ENG. (JME)
IV	ENG. (JME)	TAMIL (KU)	← PLACEMENT LAB (VB)		
V	ENG. (JME)	MAJOR (VB)	TAMIL (KU)	ALLIED (AK)	NMEC (
VI	MAJOR (VB)	ALLIED (ENG. (JME)	NMEC (TAMIL (KU)

III B.Sc.(C.S.)

DAY/ORDER	I	II	ш	IV	V
I	MAJOR (SBC)	MAJOR (SSCA)	← Pla	acement Lab (SSN)	→
Î	MAJOR (ASC)	MAJOR (AS)	MAJOR (SSCA)	MAJOR (SBC)	MAJOR (SSN)
ш		lacement Lab (AS))→	MAJOR (SBC)	MAJOR (SSCA)
IV	MAJOR (AS)	MAJOR (SSCA)	MAJOR (SSCA)	MAJOR (AS)	MAJOR (SBC)
V	MAJOR (EPR)	MAJOR (ASC)	MAJOR (AS)	← PLACEMEN	NT LAB (AS) -→
VI	MAJOR (SBC)	MAJOR (AS)	MAJOR (SSN)	MAJOR (ASC)	MAJOR (EP)

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DEPARTMENT OF COMPUTER SCIENCE (UG)

B.C.A. CLASS TIMETABLE (2022-2023- EVEN SEMESTER)

IB.C.A.

DAY/ORDER	I	п	ш	IV	v
JA I/OKDER	ALLIED (SSM)	MAJOR (EPR)	TAMIL (RST)	ENG. (X1)	MAJOR (GSK)
п	ENG. (X1)	TAMIL (RST)	← M.Sc. Lab (EPR)		
m	MAJOR (EP)	ENG.(X)	ALLIED (SSM)	TAMIL (KST)	ALLIED (SSM)
IV	ENG. (X)	ALLIED (SSM)	TAMIL (RST)	MAJOR (EP)	ALLIED (SSM)
v	MAJOR (GSK)	MAJOR (PB)	ENG. (X)	TAMIL (RST)	ALLIED (SSM)
VI	MAJOR (GSK)	MAJOR (EP)	TAMIL (RST)	ENG. (X)	MAJOR (GSK)

II B.C.A.

DAY/ORDER	I	Ц	Ш	IV	v
	1.Sc. Lab (ASC)→		MAJOR (ASC)	MAJOR (AS)	
П	ALLIED (AK)	MAJOR (SSN)	MAJOR (AS)	MAJOR (ASC)	MAJOR (AS)
ш	MAJOR (SSN)	ALLIED (← ALLIED LAB (AK)		
IV	MAJOR (ASC)	MAJOR (AS)	MAJOR (SSN)		
v	MAJOR (AS)	MAJOR (SSN)	MAJOR (ASC)	ALLIED (AK)	MAJOR(NMEC)
VI	MAJOR (ASC)	ALLIED (MAJOR (AS)	NMEC (MAJOR (SSN)

III B.C.A.

DAY/ORDER	T	п	III	IV	V
JA I/OKDEK	MAJOR (SBC)	MAJOR (SSN)	MAJOR (GSK)	MAJOR (MC)	MAJOR (EPR)
1		MAJOR (GSK)	MAJOR (SSN)	MAJOR (SBC)	MAJOR (MC)
II	MAJOR (MC)	M.Sc. LAB (GSK)		MAJOR (SBC)	MAJOR (MC)
ш			MAJOR (EP)	MAJOR (GSK)	MAJOR (SBC)
IV	MAJOR (GSK)	MAJOR (SSN)			AB (GSK)→
v	MAJOR (SSN)	MAJOR (GSK)	MAJOR (MC)		
VI	MAJOR (SBC)	MAJOR (SSN)	<i>←</i>	M.Sc. LAB (SBC)	7

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DEPARTMENT OF COMPUTER SCIENCE (UG)

STAFF INDIVIDUAL TIMETABLE (2022-2023 - ODD SEMESTER)

PB

DAY/ORDER	I	П	Ш	IV	¥7
I				IV	V
II					
ш	I BCA		I BCA		
IV			Then		
V			III BCA	I CS LAB	III BCA
VI			III BCA	← I BCA M.Sc. LAB	

SBC

DAY/ORDER	I	II	Ш	IV	V
I		I BCA		II MICRO	III B.COM-B
П	← I BCA - N	M.SC. LAB→	I BCA	II MICKO	III B.COM-B
ш		I BCA	III B.COM-B	← II B.Sc.(MI	
IV	II MICRO		III D.COM-D	III B.COM-B	CRU) LAB
V	I BCA	III B.COM-B		III D.COM-D	LDCA
VI		II MICRO	III B.COM-B		I BCA

EP

DAY/ORDER	I	п	Ш	IV	V
I			III B.COMA		V
II	II BCA	III B.COM.(CA)		M.Sc. LAB - III BC	A _ >
Ш	Thursday 1	II BCA		III B.COMA	A7
IV	II BCA	II MICRO	III B.COMA	III D.COMA	
V		III B.COMA	in Biconi, II		II BCA
VI		II BCA	III CS PL. LAB	III B.COMA	II BCA

SSN

DAY/ORDER	I	П	III	IV	**
I	III CS	III B.COM.(CA)			V
п	II CS	II BCA		III B.COM.(CA)	U.D.C.I
Ш	III B.COM.(CA)		III CS		II BCA
IV		III B.COM.(CA)	mes	6 UPCA N	III CS
V	←- II CS - PLACEMENT LAB ->		III B.COM.(CA)	← II BCA - M	I.Sc. LAB
VI	III CS		II BCA		III B.COM.(CA

ASC

DAY/ORDER	I	П	Ш	IV	V
I	← I	BCA M.SC. LAB			UI DDA
п	III BBA	III CS		II BCA	III BBA
Ш	III CS		III BBA	ILDEA	
IV		III BBA	II BCA	III CS	
V	III CS	II BCA		II BCA	
VI	II BCA	III CS		III BBA	





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MC

DAY/ORDER	I	II	ш	IV	V
I	I-CS-A				III BCA
II	1 11	I-CS-A	-	I-CS-A	
ш	←PLACEMENT LAB - I-CS-A→		II CS		
IV	III BCA	I-CS-A			III BCA
V	III BCA		II CS	← PLACEMENT LAB I-CS-A →	
VI	II CS	I-CS-A		III BCA	I-CS-A(YOGA)

GSK

DAY/ORDER	I	П	III	IV	V
I	← III BCA	- PLACEMENT	Γ LAB→		II BCOM.(CA)
п	III BCA		III CS		_
ш	III BCA	III CS	and set of the set of the set	← III BCA PLACEMENT LAB -	
IV		III BCA	I BCA (YOGA)		III CS
V	Surger and the second	III CS		III BCA	III CS
VI		III BCA	II BCOM.(CA)	III BCA	and the second sec

VB

DAY/ORDER	I	П	III	IV	V
I		II CS	I CS-A (P.E.)	III BCA	
II		II BCOM.(CA)	← II-C	S- PLACEMEN	Γ LAB→
III		III BCA	II BCOM.(CA)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	II CS
IV			III BCA	and a second of the	I CS-A (P.E.)
V	The second se	III BCA		III BCA	II BCOM.(CA)
VI	III BCA		II CS	← III CS PL. LAB→	

AS

DAY/ORDER	I	II	III	IV	V
I		ICS-B	III CS	←-PLACEMEN	T LAB - III CS -→
п		III BCA		III CS	1430323
ш	1	II PHY/CHE.	III BCA	III CS	1
IV	← PLA	CEMENT LAB - I	II CS→	III BCA	
V	1. 7.5.6 3	II PHY./CHE	III CS		III CS
VI		ICS-B			III BCA

Dr.S.SIVAKUMAR

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





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DEPARTMENT OF COMPUTER SCIENCE (UG)

STAFF INDIVIDUAL TIMETABLE (2022-2023) EVEN SEMESTER

PB

DAY/ORDER	I	II	III	IV	V
I					e de la
П					
III	ICS-A				
IV					I CS -B
V		I BCA		_	
VI					

SBC

DAY/ORDER	I	II	III	IV	V
I	III CS / BCA			II MICRO	
П		ICS-A	II MICRO	III CS / BCA	10
III		ICS-A	II MICRO	III CS / BCA	
IV	II MICRO	ICS-A			III CS / BCA
V	← M.Sc. Lab	II Micro→	ICS-A		
VI	III CS / BCA		<i>←</i>	III BCA M.Sc. La	ab→

EP

DAY/ORDER	I	П	III	IV	V
I		I BCA	10 Sec. 11	II BBA	III BCA
П	II BBA		← I	BCA M.Sc. Lat	,→
III	I BCA		II BBA	←II B.Com.(CA)Placement Lab -	
IV		II BBA	III BCA	I BCA	
V	III CS				II BBA
VI		I BCA			III CS

SSN

DAY/ORDER	I	II	Ш	IV	V
I		III BCA	← III CS	PLACEMEN	T LAB→
П		II BCA	III BCA	To sum	III CS
ш	II BCA				
IV		III BCA	II BCA	← II BCA -	- M.Sc. Lab→
V	III BCA	II BCA	II MIC. LAB		
VI		III BCA	III CS		II BCA

ASC

DAY/ORDER	I	Π	III	IV	v
Ι	← II	BCA M.Sc. L	ab→	II BCA	
II	III CS	III BBA		II BCA	
ш			÷	III BBA M.Sc. Lab	,→
IV	II BCA		III BBA		
V		III CS	II BCA		
VI	II BCA			III CS	III BBA





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MC

DAY/ORDER	and even I and the	II	ш	IV	V			
I	←	- I CS-A Placement L	ab→	III BCA	II Biotech & II Biochem.			
п	III BCA		I CS-A		III BCA			
ш	J. VI	-1 10			III BCA			
IV	← II Biote	ch & II Biochem I	M.Sc. Lab→	I CS-A				
v		II Biotech & II Biochem.	III BCA		I CS-A			
VI		II Biotech & II Biochem.	I CS-A	-	II Biotech & II Biochem.			

GSK

DAY/ORDER	I	П	III	IV	V
I	1		III BCA		I BCA
П	and the state of the	III BCA		← II CS Placemen Lab>	
Ш	← III BCA M.Sc. Lab				
IV	III BCA		II B.Com.(CA)	III BCA	
V	I BCA	III BCA		← III BCA M.Sc. Lab→	
VI	I BCA		II B.Com.(CA)		I BCA

VB

DAY/ORDER	I	П	III	IV	V
I		I CS-B		II B.Com.(CA)	
П	← II B.0	Com.(CA) Placen	nent Lab→	II B.Com.(CA)	1 STREET
III	II CS	I CS-B		IICS	
IV	AS	I CS-B	← 11	CS Placement Lal	b→
V		II CS			II B.Com.(CA)
VI	II CS	1.00	I CS-B		

AS

DAY/ORDER	I	П	Ш	IV	V
Ι				II Phy. II chem	II BCA
П		III CS	II BCA		II BCA
ш	← III CS Placement Lab				
IV	III CS	II BCA		III CS	
V	II BCA		III CS	← III CS Pla	cement Lab→
VI	1	III CS	II BCA		II Phy. II chem

S.S.C.A

DAY/ORDER	I	П	Ш	IV	V
I	I CS-B	III CS		I B.Com.(CA)	
П	I CS-B	111	III CS		I B.Com.(CA)
Ш	I CS-B			I B.Com.(CA)	III CS
IV	A_A_A	III CS	III CS	5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	I B.Com.(CA)
v	←IC		10		
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DEPARTMENT OF COMPUTER SCIENCE

ELECTIVES SELECTION BY STUDENTS

ODD SEMESTER 2022-23 (Elective-I)

S.NO	R.NO	NAMES	Discrete Structures	Multimedia	Problem Solving Techniques	Student Signature
1	20BA501	K.S.ABISHEK			\checkmark	K.S. abutter
2	20BA502	B.KAVINKUMAR	\checkmark		/	B. Kanin Kumo
3	20BA504	G.E.KAVIRAJAN			V	OT.E. Kaup
4	20BA505	M.LATHISH			V	M. hannet.
5	20BA507	A.MEGANATHAN	\checkmark		,	A.m. and hathan
6	20BA508	P.NAVEENKUMAR			V	P. Minin and
7	20BA509	M.PRASANTH			,	S. Rajkumar
8	20BA510	S.RAJKUMAR			\checkmark	S. Ralkumer
9	20BA511	S.SAKTHIVEL		\checkmark	1	Sasile un ar M
10	20BA512	M.SASIKUMAR			V	k Surner
11	20BA513	K.SURYA			V	
12	20BA514	S.SURYA			V	A. Suzya Prasad
13	20BA515	A.SURYAPRASAD			V	H. Jurger Sam
14	20BA516	T.TAMILSELVAN	\checkmark		~	Vilaster
15	20BA517	V.VASANTHKUMAR	^		V	e vhothan
16	20BA518	S.VIGNESHVAR	\checkmark		V	1 16 miline
17	20BA519	K.VINOTHKUMAR			V	A. Vishum
18	20BA520	A.VISHVA		~	V	M. Anthy
19	20BA521	M.AARTHI			V	11 Alune
20	20BA522	M.ABINAYASRI			V	N Deepiten
21		M.DEEPIKA			V	10 Densa
22	20BA524	K.DHIVYA	\checkmark			- Ko Canton
23		P.GAYATHRI				B. Junider.
24		B.HARIDHARSHINI			V	12 . 10

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S.NO	R.NO	NAMES	Discrete Structures	Multimedia	Problem Solving Techniques	Student Signature
25	20BA529	S.HEMALATHA			~	S. HE MO LATHA
26	20BA530	T.LAKSHUMAYEE			\checkmark	7. Left Stillmoyad
27	20BA531	K.MANIMALAR				6 maila-
28	20BA532	S.MANIPRIYA	\checkmark			5 Mani Pausa
29	20BA534	P.NANDHINI			\checkmark	S.W. Origona
30	20BA535	K.PREETHIKA				Pinanthani
31	20BA536	T.RAMAYEE	· · · · · · · · · · · · · · · · · · ·		V	TRAMAYEE
32	20BA537	V.SABITHA		\checkmark		V SPETHE
33	20BA538	J.SAKTHIVAISHNAVI			\checkmark	J. Saptarin
34	20BA539	R.SARANYA	\checkmark			R.SAPANK
35	20BB501	M.KARTHICK				M. Carthick
36	20BB502	S.NAVEENKUMAR				3. Navecalas
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38	20BB504	G.VETRIVEL			✓	Gr. Vetrivel
39	20BB505	V.ATCHAYA				VACIO
40	20BB506	S.GOWSALYA			,	M. Crow Sala
41	20BB607	M.PRIYADHARSHINI			\checkmark	H. Brizahr
42	20BB508	M.VIDHYASREE				M. Vidas

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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 Submoniods- Homomorphism of Semigroups and Moniods, 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. Umaparvathi, "Discrete Mathematics", PHI Publications, 2010.

REFERENCE BOOKS

- 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

UNITI

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

UNITI

Images: Plan Approach - Organize Tools - Configure Computer Workspace - Making Still Images -Cclor - 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 - Acding Sound to Multimedia Project.

UNIT III

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

UNITIV

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

UNITV

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

TEXT BOOK

1. Tay Vaughan, "Multunedia: 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 Lage Fower

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. E.G.Dromey, "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

ELECTIVES SELECTION BY STUDENTS

EVEN SEMESTER 2022-23 (Elective-II)

S.NO	R.NO	NAMES	Data Mining and Warehousing	Unified Modelling Languages	Web Technologies	
1	20BA501	K.S.ABISHEK				K.S. Abellick.
2	20BA502	B.KAVINKUMAR				B. karing Kom?
3	20BA504	G.E.KAVIRAJAN	~			OT.E. Kauge:
4	20BA505	M.LATHISH	\checkmark			m. cathigh
5	20BA507	A.MEGANATHAN		~		A. Mutathan
6	20BA508	P.NAVEENKUMAR				P. Nauere
7	20BA509	M.PRASANTH		~		m. PRought -3
8	20BA510	S.RAJKUMAR				S. Malkings
9	20BA511	S.SAKTHIVEL			~	S. Satethivel
10	20BA512	M.SASIKUMAR	V			M. Sasha
11	20BA513	K.SURYA				K. Surth
12	20BA514	S.SURYA		V		S-Sur7 1
13	20BA515	A.SURYAPRASAD	~			- Surger
14	20BA516	T.TAMILSELVAN			V	1.0- 0-1
15	20BA517	V.VASANTHKUMAR	V			T. Vasat
16	20BA518	S.VIGNESHVAR				S. VIGnahur
17	20BA519	K.VINOTHKUMAR				K. Vnt-B
18	20BA520	A.VISHVA		~		AN:LA
19	20BA521	M.AARTHI				Michinh
20	20BA522	M.ABINAYASRI				N Deepika
21	20BA523	M.DEEPIKA				N. Dhing
22	20BA524	K.DHIVYA				P. 07ayotholi
23	20BA525	P.GAYATHRI	V			1.0,000

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S.NO	R.NO	NAMES	Data Mining and Warehousing	Unified Modelling Language	Web Technologies	Student Signature
24	20BA528	B.HARIDHARSHINI				P. Hangel .:
25	20BA529	S.HEMALATHA				S. (dember .
26	20BA530	T.LAKSHUMAYEE	\checkmark			7. Laboren
27	20BA531	K.MANIMALAR	\checkmark			le Manimoly
28	20BA532	S.MANIPRIYA	V			3. Marrip.
29	20BA534	P.NANDHINI		\sim		P. Nardhini
30	20BA535	K.PREETHIKA	\checkmark			T. Ramater
31	20BA536	T.RAMAYEE				F. Jams
32	20BA537	V.SABITHA	\checkmark			V. SADITLA
33	20BA538	J.SAKTHIVAISHNAVI				J- Jack Mr
34	20BA539	R.SARANYA	\checkmark			R. Sammy 9
35	20BB501	M.KARTHICK		\checkmark		Melearthich
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37	20BB503	S.SATHOSHKUMAR				6. Juliakan.
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41	20BB607	M.PRIYADHARSHINI				M. Prija Thurs
42	20BB508	M.VIDHYASREE	\checkmark			M. Viane

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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 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

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

REFERENCE BOOK

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





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PERIVAR UNIVERSITY

B.Sc. COMPUTER SCIENCE SEMESTER VI ELECTIVE II - PAPER II - UNFIED 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. NewDelhi, 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 II - PAPER III - WEB TECHNOLOGIES**

UNIT-I

Internet Principles: Introduction to Internet - Client Server Model- Protocol - Internet IP Address-Domain Name - Internet Services - Electronic Mail - World Wide Web - Internet Security - E-Commerce - EDL

UNIT -II

Introduction to HTML: HTML Tags - HTML Documents - Headings - Hyperlinks using Anchor Tag-Formatting Characters - Font - Images and Pictures - Listing - Tables in HTML Tags - Frameset Definition - Fame Definition- Nested framesets - HTML Forms - Elements of a form use Tags.

UNIT -III

JavaScript : Data Types - Variables - Operators - Conditional statements using Javascript - Document Objects - Image Objects using Javascript - Forms and Elements - Event Handling - Browser Object -Submit Event and Data Validation -Parseint() Function - ParseFloat() Function - Recursive Function.

UNIT-IV

Server Side Script with JSP: Client Responsibilities - Server Responsibilities - Introduction to JSP -JSP Architecture - JSP Servers - JSP Tags - Request Object - Response Object - JSP Page.

UNIT - V

JSP with JDBC : Creating ODBC Data Source Name - Introduction to JDBC -Telephone Directory with JDBC - Servlet Environment and Role - Protocol Support - HTML Support - Servelt Life Cycle -- HTML to Servlet Communication .

TEXT BOOK

1. C.Xavier, "Web Technology and Design", 1st Edition, New Age International.2011.

REFERENCE BOOK

1. H.M.Deitel, P.J.Deitel, "Internet and World Wide Web - How to Program", 3rd Edition, Pearson Publication, 2006.



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DEPARTMENT OF COMPUTER SCIENCE

ELECTIVES SELECTION BY STUDENTS

EVEN SEMESTER 2022-23 (Elective-III)

S.NO	R.NO	NAMES	Mobile Computing	Computer Graphics	Internetworking with TCP/IP	Student Signature
1	20BA501	K.S.ABISHEK				K.S.alathat
2	20BA502		V			B. Kanen Kerry
3	20BA504			V		OI.E. Karpert.
4	20BA505					M. Jotkith
5	20BA507				V	A. rugarothan
6	20BA508			V		n. placement
7	20BA509	M.PRASANTH			V	C. Raiknari
8	20BA510	S.RAJKUMAR		V		S. Sawthilp/
9	20BA511	S.SAKTHIVEL	\checkmark			M. Sasilij
10	20BA512	M.SASIKUMAR		V		K. SU YERD.
11	20BA513	K.SURYA				S. SURA
12	20BA514	S.SURYA		~	~	A. Curiya Paso
13	20BA515	A.SURYAPRASAD		~		Tihan
14	20BA516	T.TAMILSELVAN		~		Vivalky
15	20BA517	V.VASANTHKUMAR			V	S. Vigenein
16	20BA518	S.VIGNESHVAR		V		k. Views
17	20BA519	K.VINOTHKUMAR				A. VIGHA
18	20BA520	A.VISHVA			V	M. Anthin
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S.NO	R.NO	NAMES	Mobile Computing	Computer Graphics	Internetworking with TCP/IP	Student Signature
24	20BA528	B.HARIDHARSHINI		V		B. Manday.
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30	20BA535	K.PREETHIKA	~			T Remoyee
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42	20BB508	M.VIDHYASREE				

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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.

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

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. Storeoscopic 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 Edipses.

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 cueung visible line and surface - Three Dimensional Geometric and modeling Transformations: Translation - Potation - 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 - Bick Face Detection - Depth - Batter Method - A-Batter Method - Scan line anethod - Depth sorting method - BSP are method - Area Subdivision Method.

TEXT BOOK:

1 Donald Hearn & M. Pruline Brkee. "Computer Graphics" 2nd Edition, 1966

REFERENCE BOOKS

 Julin J. Hogkes, Andries Van Dans, Morgan Megnare, David F. Sklar, James D. Foley, Steven K. Feiner, Eart Akeley, "Computer GraphicsPrinciples and Practice" 3rdEdition, Pearson Education, 2014.



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PERIYAR UNIVERSITY

B.St. 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. 5thEdition. PHI. 2006.

REFERENCE BOOKS

- 1. Behrouz A.Forouzan, "ICP/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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DEPARTMENT OF COMPUTER SCIENCE

ELECTIVES SELECTION BY STUDENTS

ODD SEMESTER 2022-23 (Elective-I)

NO	R.NO	NAMES	E-COMMERCE TECHNOLOGIES	SYSTEM SOFTWARE	COMPUTER GRAPHICS	Student Signature
1	20B1501	ABIRAJ.M	V		GRATHES	
2	20B1502	MANOJ.S	V			M. AD
3	20B1503	PONKATHIRAVAN.S				S. Man
4	20B1504	PRAVEEN.K	V	~		S. Roter
5	20B1507	SANTHAK.M				K. Parman.
6	20B1508	SANTHOSH.S			~	M. Sastak
7	20B1509	SASIKUMAR.B				S. Jarthash
8	20B1510	DHARANI.G	×			Sexilem B
9	20B1511	HARISHNA.K	V			on. Delut
10	20B1512	MENAGADEVLA	V			K. Harristona
11	20B1513	NITHYA.K				A.Mena Ga devi
12	20B1514	NIVETHA.P				K. Ning
13	20B1515	PREETHIGA.K.V	V	~~~~		p. NIKE
14	20B1516	SHRUTHIKA.S				v.k. prent.
15	20B1517	SYLAJA.A	1			S. Shift

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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 Ind.a - 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 - Eadvertising - E-branding.

UNIT III

E-Security: Information system Security - Security on the Internet - E-business Pisk 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

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

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

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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 - I O 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

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

REFERENCE BOOKS

m

- 1. D. M. Dhamdhere, "Systems Programming and Operating Systems", Second Revised Edition, TataMcGraw-Hill, 1999.
- 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 – Tcuch Panels – Light pens. Voice Systems – Hard-Copy Devices – Line Drawing Algorithms DDA Algorithms – Circle generating Algorithm Properties of Ellipses.

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

TEXT BOOK:

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

REFERENCE BOOK:

 John f. Hughes. Andries Van Dam, Morgan Meguire, David F. Sklar, James D. Foley, Steven K. Feiner, Kurt Akeley, "Computer GraphicaPrinciples and Practice" 3rdEdition, Pearson Education, 2014.

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DEPARTMENT OF COMPUTER SCIENCE

ELECTIVES SELECTION BY STUDENTS

EVEN SEMESTER 2022-23 (Elective-II)

S.NO	R.NO	NAMES	SOFTWARE TESTING	PARALLEL PROCESSING	MULTIMEDIA	Student Signatur
1	20B1501	ABIRAJ.M			~	M. down
2	20B1502	MANOLS			3	S. Carrie
3	20B1503	PONKATHIRAVAN.S	\checkmark		/	K. pva.Vee
4	20B1504	PRAVEEN.K			V	M.Son M
5	20B1507	SANTHAK.M		1		5. Jastan
6	20B1508	SANTHOSH.S			V	B. SDE Han
7	20B1509	SASIKUMAR.B				6. gizzan
- Contract 1	20B1510	DHARANI.G	V			IK-Havint
	20B1511	HARISHNA.K			V	11.471 1
1	20B1512	MENAGADEVI.A				hluetha.
	20B1513 1	NITHYA.K		V	\checkmark	p.Wivette
	OR1514 1	VIVETHA.P			V	V. Riston
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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. Linnaye, "Software Testing Principles Techniques and Tools", McGraw-Hill Education India Enk P.W.M. Veenendaal and Graham Bath, "Improving the Test Process", Rocky Nook, 2013 Pvt. Ltd - New Dellhi, 2009





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PERIYAR UNIVERSITY

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

SEMESTER VI

ELECTIVE II - PAPER II - PARALLEL PROCESSING

UNIT - 1

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 inalticomputer- A Taxonomy of MIMD computers. Multi-vector and 5IMD 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 end SIMD tracks

UNIT-II

Program and Network Properties: Conditions of Parellelism - Data and resource dependences-Hardware end software parallelism-The role of compilers. Program Partitioning and Scheduling: Grain sizes and latency-Crain 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 Sealable 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.



TEXT BOOK

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

REFERENCE BOOK

1 Behrooz Parhami, "Introduction to Part Processing - Algorithms and

Analytanture:" Plenum series, 2002

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SEMESTER VI

ELECTIVE II -PAPER III - MULTIMEDIA

UNIT I

Multimedia Definition – Use Of Multimedia – Delivering Maltimedia – Tett: About Fours and Faces – Using Text in Multimedia – Computers and Tett – Four 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 Andro - Midi Andro - Midi vs. Digital Audio - Multimedia System Sounds - Andro 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 - Miking Animations that Work: Video: Using Video - Working with Video and Displays - Digital Video Containers - Obtaining Video Clips - Shooting and Ediring Video.

UNIT IV

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

UNIT V

Planning and Costing: The Process of Making Multimedia - Scheduling - Estimating - RIFs and Bud 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. O-borne McGraw-Hill. 2001.

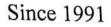
REFERENCE BOOK

 Ralf Steinmetz & Kiara Nahrstedt – "Multimedia Computing: Communication & Applications". Pearson Education, 2012





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DEPARTMENT OF COMPUTER SCIENCE

ELECTIVES SELECTION BY STUDENTS

EVEN SEMESTER 2022-23 (Elective-III)

S.NO	R.NO	NAMES	DATA MINING AND WAREHOUSING	IMAGE PROCESSING	MOBILE COMPUTING	Student Signature
1	20B1501	ABIRAJ.M	\checkmark			M operai
2	20B1502	MANOJ.S			~	5. Marrie
3	20B1503	PONKATHIRAVAN.S		V		5-0-
4	20B1504	PRAVEEN.K		\checkmark		K. proulean
5	20B1507	SANTHAK.M	\checkmark			H. CANKOR.
6	20B1508	SANTHOSH.S	~			9. Jatharh
7	20B1509	SASIKUMAR.B				S. Affrant.
8	20B1510	DHARANI.G	✓			(1. Do Busi
9	20B1511	HARISHNA.K		~		K. Horishna
10	20B1512	MENAGADEVI.A				A. Moundary
11	20B1513	NITHYA.K		V		K. M. H.a
12	20B1514	NIVETHA.P			~	Niveth.p
13	20B1515	PREETHIGA.K.V	\checkmark	,		K.V. Precthie
14	20B1516	SHRUTHIKA.S				5. Thomas h
15	20B1517	SYLAJA.A				A. Sylin



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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 - Flements 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

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

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 - Celhular 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

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

REFERENCE BOOKS

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1. William Stallings, "Wireless Communication and Networks", 2nd Edition, Pearson Education, 2005.

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2. Theodore Rappaport, "Wireless Communications: Principles and Practice", Prentice Hall Communications, 1996

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

Paper code: 21UCA03/21UCS03 Prepared By: G.Senthil Kumar Section-A

Regulation : 2022 Onwards

Answer all the Questions

- 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 if 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
- 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. 6. 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. 9. 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 Ouestions

- 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







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CLASS: II BCA

Regulation : 2022 Onwards

SUBJECT: Data structures and algorithms (21UCA05)

PREPARED BY : Dr. S.Sivakumar

Part-A

ANSWER ALL THE QUESTIONS

1.	Anis wr	ritten in simpl	e language		
	a) Algorithm	n b) da	ta	c) information	d)none
2.	i	s pictorial rep	presentation o	falgorithm	
	a) Algorithm	n b) flo	w chart	c) information	d)none
3.	basic	steps are pre	esent in proble	m solving	
	a) 5	b) 7		c) 6	d)10
4.	de	sign is be tec	hniques of bre	aking down a large pr	ogram into various sub tasks
	a) Bottom u	p b) top	o down	c) both a&b	d)none
5.	of	a program de	notes the amo	unt of memory in con	nputer
	a) Time	b) space		c)frequent	d)all
6.	5. Which of the following data structure process by one by one?				
	b) Algorithm	n b) lin	er	c) non liner	d) data
7.	Collection of	same data typ	e is called		
	a) Array	b) sta	ck	c) linked list	d) tree
8.	Which of the	following is a	n infix express	ion?	
	a) (a+b)*(c+d	l) b) ab	+C*	c) +ab	d) abc+*
9.	Which of the	following is n	on liner data s	tructure?	
	a) String	b) tre	e	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 p	12 the last node points to the header node						
a.	Circular Linked li	st	(B) Singly Linked list				
(C) Doubly Linked List		(D) All the above					
13. is a scheduling algorithm	for time sharing system	IS					
(A) Round Robin Sched	uling	(B) FCFS					
(C) CPU Scheduling		(D) All the above					
14 is a ordered collect	tion of homogeneous da	ta elements					
a. Queue	(B) Stack	(C) Dequeue	(D) Enqueue				
15. How many ways to repre	esent a queue in memory	7.					
(A) 1	(B) 2	(C) 3	(D) 4				
16. Time complexity of merg	ge sort is						
a. O(log n)	(B) O(n log n)	(C) O(n)	(D) None				
17.is a step by step instructi	ons to excute data						
a. Data	(B) Algorithm		(D) None of the above				
18. The connecting link betw	ween any two nodes is c	alled					
a. Edge	(B) Root node	(C) Parent	(D) Child				
19. The total no of edges fro	_						
a. Depth (B) He	-	(C) Width	(D) Level				
20. Time complexity of o(log							
(c) Bubble sort		(C) Merge sort	(D) None				
21. Queue operation is used							
a. FIFO	(B) LIFO	(C) Both a & b	(D) None of the above				
22. Time complexity of Quic			(=) · · ·				
a. $O(\log n)$ (B) $O(n)$	n log n)	(C) 0(n)	(D) None				
			· 11 1				
23. The total no of edges fro	_		altre				
a. Depth	(B) Height	(C) Width	(D) Level RENGENTIAN ADDR AND				
24. The node which has a							
a. Depth	(B) Height	(C) Width	(D) Level				
25 is a non liner data			(D) Linked List				
(A)Graph	(B) Trees	(C) Arrays					

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 mote 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.

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DEPARTMENT OF COMPUTER SCIENCE

QUESTIONS BANK

SUBJECT NAME: JAVA PROGRAMMING

REGULATIONS: 2022 Onwards

CLASS : II CS

PAPER CODE: 21UCS06

PREPARED BY : V.Balasubramaniyam

Section-A

- What is the extension of java code files?
 a) .js
 b) .txt
 c) .class
 d) .java
- What is the extension of compiled java classes?a) .txtb) .jsc) .classd) .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) staticd) 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

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SENGUNTHAP APAY AND SCHWAT COLLEGE TIRUCHERQUEE 637 AVS. 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) 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.

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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 : A.Suganthi

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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DEPARTMENT OF COMPUTER SCIENCE

OUESTIONS BANK

CLASS : III BCA/III CS

PREPARED BY : P.Balamurugan

I. ANSWER ALL QUESTIONS

- 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? d) 20 b) 10 a) 9 c) 12
- 7.) 53, 53, 40, 40, 27, 27, ? b) 14 a) 12
- 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? b) Grandfather a) Father c) Husband d)Father in law

c) 27





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1x 15=15

REGULATIONS: 2019-2020

PAPER CODE : 19UCSS01/19UCAS01

d) 53

 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 cos		b) Meet the high lat				
 12.) A group discussion must advance a) truth b) dishonesty c) Personal glory d) arguments 						
13.) In a group discuss	ion we should be					
a) assertive b			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 discus	s 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 for 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 kin 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

SCIENCEQUESTION BANK

SUBJECT NAME: MULTIMEDIA CLASS: III BCA PAPER CODE: 19UCAE06 PREPARED BY: MR. M.Chinnusamy

REGULATION: 2019-2020

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

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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-

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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
- _____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:

15.

- 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

suвјест name: Problem Solving Techniques	REGULATION : 2019-2020
class: III-B.C.A / III-B.Sc(CS)	PAPER CODE: 19UCA10 / 19UCSE01
PREPARED BY: MR.M.CHINNUSAMY	

<u>Section – A</u>

Answer all the Ouestions

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 opeteror in pascal?

a) = = b) := c) = d) = = =.

5. What is output of 11 div 3 and 17 mod 2?

a) 3, 1 b) 4, 2 c) 2, 1 d) 1, 1.

6. What are the values ord('A') and 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 c) 2

8. which expression is linear congruential method

a) $x_{n+1}=(ax_n+b) \mod m b$ xn=(axn+b) mod m c) y=(ax+b) mod m d) none of above

9. What is output for i = 5 downto 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) Olog(2) b) O(log n). c) n log O d) 20 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 <= 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 asset.
- 23. Describe partitioning an array
- 24. Write binary search algorithm.
- 25. Discuss about diminishing increment and partitioning

ATTESTED FRENCIPAL SENGUNTHAP APOT APPT SCIENCE COLLEGE TIRECHERCOURE 6.57 AVS.

<u>Section – C</u>

10 Marks

Answer all the Ouestions

- 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.

ATTESTED FRINCIPAL SENGUNTHAP APTY AND SCHENET COLLEGE TIRUCHERCOUR 637 rus.

(6 pages) S.No. 2830

21UCS02/21UIS02

(For the candidates admitted from 2021-2022 onwards)

B.Sc. DEGREE EXAMINATION, JUNE 2022

Second Semester

Computer Science

DATA STRUCTURES AND ALGORITHMS

(Common for : Information Science)

Time : Three hours

1.

7.

Maximum : 75 marks

PART A — $(15 \times 1 = 15 \text{ marks})$

Answer ALL the questions

- Which of the following data structure can't store the nonhomogeneous data elements?
 - (a) Arrays (b) Stacks
 - (c) Records (d) None of the above
- 2. The term push and pop is related to
 - (a) Array (b) Lists

(c)	Stacks	(d)	Trees

- 3. Insertion and Deletion operation in Queue is known as?
 - Push and Pop (a)
 - (b) Enqueue and Dequeue
 - (c) Insert and Delete
 - (d) None
- 4. A linear collection of data elements where the linear node is given in means of pointer is called?
 - (a) Linked list
 - (b) Node list
 - (c) Primitive list
 - (d) None of the mentioned
- 5. Minimum number of fields in each node of a doubly linked list is
 - (a) 2 (b) 3
 - (c) 4 (d) None of the above
- 6 Linked list is considered as an example of _ type of memory allocation.

2

- (a) Dynamic
- (b) Static
- Compile time (c)
- None of the mentioned (d)
- S.No. 2830
- Which of the following is an external sorting? 11
 - (b) Bubble Sort (a) Insertion Sort
 - Merge Sort (d) Tree Sort (c)
- The function used to modify the way of sorting the 12 keys of records is called
 - Indexing function (a)
 - Hash function (b)
 - (c) Addressing function
 - All of the above (d)

sorting algorithm is frequently 13. used when n is small where n is total number of elements.

- Insertion (b) Heap (a)
- Quick (d) Bubble (c)
- Partition and exchange sort is -14
 - (b) tree sort (a) quick sort
 - (d) bubble sort (c) heap sort
- The time complexity of quicksort is 5.
 - $O(\log n)$ (b)
 - O(n2)(c)

(a)

O(n)

(d) 4

 $O(n \log n)$

S.No. 2830 PTOI

If node N is a terminal node in a binary tree then its

- (b)
- Both left and right sub trees are empty
- Root node is empty
- A graph is said to be 8. u in G is adjacent to every other node v in G.
 - Absolute (a)
 - (c)
- 9. T with root R
 - Prefix, infix, postfix (a)
 - Pre-process, in-process, post-process (b)
 - Pre-traversal, in-traversal, post-traversal. (c)
 - Pre-order, in-order, post-order (d)
- Finding the location of a given item in a collection 10. of items is called
 - (a) Discovering
 - Finding (b)
 - (c) Searching
 - Mining (d)

3

FRINCIPAL SENGUNTHAP APPY APPY S WT COLLEGE TIRECHERCLOUR 637 PUS

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- Inclusive
- if every note
 - (b) Entire
 - (d)
- Three standards way of traversing a binary tree

- Complete
- (c) (d)
- Right tree is empty (a) Left tree is empty

PART B — $(2 \times 5 = 10 \text{ marks})$

Answer any TWO questions out of Five

- 16. Write a note on Sparse Matrices.
- 17. Explain about Singly linked list.
- 18. Discuss on the basic terminologies of binary tree.
- 19. Give the structure for performing various operations on symbol table.
- 20. What is internal sorting? List out the internal sorting methods.

PART C — $(5 \times 10 = 50 \text{ marks})$

Answer ALL the questions

- (a) Illustrate infix to Postfix conversion of arithmetic expression using stack.
 - Or
 - (b) Explain about Circular Queue in detail.
- 22. (a) Explain in detail about linked stack and queue.

Or

5

(b) Elaborate the insertion into doubly linked circular list.

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 (a) Illustrate the algorithm of Inorder traversal in binary tree.

Or

- (b) Explain the Depth First Search algorithm to traverse a graph.
- 24. (a) Explain the functioning of magnetic tapes.

Or

- (b) Explain in detail about Hash tables.
- 25. (a) Explain the algorithm of Quick sort in detail.

Or

(b) Explain in detail about various file organizations.

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(6 pages) S.No. 2051



(For the candidates admitted from 2019-2020 cowards)

B.C.A./B.S. DEGREE EXAMINATION, MAY 2023

Fifth Setth Semester

COMPUTER NETWORKS

(Common for: Computer Science / Information Science)

Time : Three hours

Maximum : 75 marks

PART A — $(15 \times 1 = 15 \text{ marks})$

Answer ALL the questions

- 1 WLAN stands for?
 - Wired local area network (a)
 - Wireless local area network (6)
 - (c) Wire lost area network
 - (d) Wireless local ambiguity network

- layer is concerned with transmitting raw bits over a communication channel.
 - (a) application layer

9

- (b) transport layer
- (c) physical layer
- (d) Internet layer
- is example of magnetic 3 The media
 - (b) Recordable DVD's (a) UTP Cable
 - (c) Closed circuit T.V (d) Cable Television
- Protocols in which the sender sends from one 4 frame and then waits for an acknowledgement before proceeding is called
 - (a) stop and wait protocol
 - (b) unrestricted protocol
 - (c) Noisy protocol
 - (d) Slide window protocol
- The number of bit position in which two code 5 words differ is called as

9

- (a) Euclidean distance
- (b) Linear distance
- (c) Manhattan distance
- (d) Hamming distance

S.No. 2051

- 11. Each socket has a socket number, consisting of the IP address of host is called a
 - (b) HTTP (a) port
 - (d) protocol URL (c)
 - 12. Name the protocol used in world wide web (WWW).
 - (b) FTP (a) HTTP
 - (d) POP3 Telenet (c)
 - The strings inside the tags are called as 13.
 - (b) Directives (a) Hyperlinks
 - (d) Character Hypertext
 - 14. The message to be encrypted, is known as
 - (b) cipher text (a) plain text
 - (c) encrypted data (d) decrypted data

_ Algorithm uses the same key for both encryption and decryption process

(a) Symmetric DNS

(c)

(c)

- (b) Asymmetric
 - (d) Triple DES 4

S.No. 2051

[P.T.O.]

Pick	out	the	data	link	laye	r desig	n issues
						-	1 1

- (a) Services provided to the network layer
- Framing (b)

6.

8.

- Error and flow control (c)
- All the above (d)
- The algorithm that manages the tables and makes the routing decision is called as 7.
 - (a) Routing algorithm
 - (b) Congestion algorithm
 - (c) Hierachical routing algorithm
 - Multicasting algorithm
 - A packet arrives, looking up outgoing line routing
 - table is known as . (b) Diverting (a) Redirecting
 - (d) Backwarding Forwarding (c)

smooths out the network traffic on the server side, rather than on client side. 9

- (b) Traffic shaping Traffic spikes
- (a) (d) Data transmission Data flow (c)

3

- TCP stands for ____ 10.
 - (a) Transfer control protocol
 - Transmit control protocol (b)
 - Transfer cable protocol (c) Transmission control protocol
 - (d)
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SENGUNTHAP APPY APP SCHWAT COLLEGE

TIRECHERCOUSE 637 195.

E.

¥ART B = (2 + 5 = 10 merks)

Anomer any TWO questions out of five

- B. Brytain the beat area measure (1.614).
- 17. Briefly explain the data link layer design issues.
- Describe any three techniques for achieving good quality of service.
- 19. Write short notes on Remote procedure cell.
- 20. Illustrate on Domain name system (DNS).
 - PART C (5 × 10 = 50 marke)

houses hit , questions

 (a) Discuss about the OSI Reference model with disgram.

01

- (b) Give an outline on guided transmission media.
- 22. (a) Englain about the aliding window protocol.

Or

(3) Write about error detection and correction.

5

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- (b) Explain why the englance of a structure of a structure.
- 24. (a) Write advise TCP service and 14.9 segment header.

11

(b) Electorate on the elements of transport protocol

25. (a) Dewrite on the electronic will in brief

175

()) Illustrate the public key algorithms.

6

S.No. 2051

ATTESTED

FRENCIPAL SENGUNTHAP APPLY AND SCHWAT COLLEGE THEFCHERCORE 637 AUX.

(7 pages) S.No. 2230

21UCA03/ 21UCS03/ 21UIS03

(For the candidates admitted from 2021-2022 onwards) B.C.A./B.Sc. DEGREE EXAMINATION, MAY 2023.

Second Semester

COMPUTER ORGANIZATION AND ARCHITECTURE

(Common for : Computer Science/Information Science)

Time : Three hours

Maximum : 75 marks

PART A --- (15 × 1 = 15 marks)

Answer ALL questions.

Network of Communication protocol is formed by 1. one master and -- slaves with a unique address. (a) 230 (h) 227

		(0)		
(e)	247	(d)	245	

The device used to fetch (or bring) instructions and data into a computer system is called

(a)	ALU	(b)	Control unit	
	21			

(c) Input device (d) Output device

- 3. Conversion of computer-generated results into human-readable format is the function of
 - (a) CPU
 - (b) RAM
 - Output interface (c)
 - (d) Input interface
- 4. Which of the following units of measurement are used with the computer system?
 - (a) Bytes (b) Kilobyte
 - (c) Megabyte (d) Gigabyte
 - (e) All of these
- 5. The hardware in which data is stored permanently for a computer system is
 - (a) Registers

(b) Bus

- (c) Secondary memory
- (d) Main Memory
- 6. The CPU chip used in the computer system is made up of

2

- (a) Gold (b) Copper
- (d) Silver (c) Silicon
 - - S.No. 2230
- 10. Which of the following is lowest in memory hierarchy?
 - (a) Cache memory
 - (b) Secondary memory
 - (c) Registers
 - (d) RAM
- 11. In signed-magnitude binary division, if the dividend is (11100)2 and divisor is (10011)2 then the result is
 - (a) (00100)2 (b) (10100)2
 - (11001) 2(d) (01100)2 (c)
- 12. Virtual memory consists of
 - (a) Static RAM
 - (b) Dynamic RAM
 - Magnetic memory (c)
 - (d) None of these
- 13. In a program using subroutine call instruction, it is necessary

4

- (a) Initialize program counter
- (b) Clear the accumulator
- (c) Reset the microprocessor
- (d) Clear the instruction register

(2FAOC) 16 is equivalent to 7

- (a) (195 084)10
- (b) (0010 1111 1016 0000 1100)2
- (c) Both (a) and (b)
- (d) None of these
- 'The average time required to reach a storage 8. location in memory and obtain its contents is called the
 - (a) seek time
 - (b) turnaround time
 - access time (c)
 - (d) transfer time
- Which of the following is not a weighted code? 9.
 - (a) Decimal Number system
 - (b) Excess 3-cod
 - (c) Binary number System
 - (d) None of these
- 3

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[P.T.O.]

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FRINCIPAL SENGUNTHAP APPLY AND SCHENEP COLLEGE

TIRECHERCOUR 637 PVS.

2.

 The 2s complement form (Use 6 bit word) of the number 1010 is

(a) 111100 (b) 110110

(c) 1101111 (d) 1011

15. What is the content of Stack pointer (SP)?

- (a) Address of the current instruction
- (b) Address of the next instruction
- (c) Address of the top element of the stack
- (d) Size of the stack.

PART B — $(2 \times 5 = 10 \text{ marks})$

Answer any TWO questions out of Five.

16. Describe the digital operation.

17. Differentiate decoder and encoder.

- (a) Find 2's complement of binary number 10101110.
 - (b) Find 2's complement of binary number 10001.001.
- 19. Draw the RS flip flops and explain.
- 20. Differentiate the EPROM and EEPROM.

5

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PART C — $(5 \times 10 = 50 \text{ marks})$

Answer ALL questions.

21. (a) Elucidate the Basic gates with truth table.

Or

(b) Using Boolean identities, reduce the given Boolean expression:

F(X,Y,Z) = X'Y + YZ' + YZ + XY'Z'

 (a) Write notes on 1 to 16 De-multiplexer with diagram.

Or

- (b) Write short notes on Karnaugh map with example.
- (a) Give an account on 1's and 2's complement with neat example.

Or

- (b) Convert (242)10 into hexadecimal. Convert (121)8 into hexadecimal.
- 24. (a) Discuss about the Flip flops and its types. Or
 - (b) Elaborate the Arithmetic Logic unit. 6 S.No. 2230

25. (a) Explain the types of memory.

Or

7

(b) Explain in detail about Serial-In Serial-Out and Parallel-In Parallel-Out.

ATTESTED SENGUNTHAP APAY AND SCHOOL COLLEGE TIRECHERCOUR 637 INS.

ruses) S.No. 2057

9UCAE03/19UCSE08	
19UISE06	/

(For the candidates admitted from 2019-2020 onwards) B.C.A./B.Sc. DEGREE EXAMINATION, MAY 2023.

Fifth/Sixth Semester

Elective - COMPUTER GRAPHICS

(Common for: Computer Science/Information Science)

Time : Three hours

Maximum : 75 marks

PART A — $(15 \times 1 = 15 \text{ marks})$

Answer ALL questions.

- 1. GUI stands for
 - (a) Graphics uniform interaction
 - (b) Graphical user interaction
 - (c) Graphical user interface
 - (d) None of the above
 - Which one of the following is the primarily used output device?
 - (a) Video monitor Scanner (b)
 - (d) Printer (c) Speaker

- 3. In the images, redundancy stems from:
 - (a) pixel quantization
 - (b) image size
 - (c) pixel de-correlation
 - (d) pixel correlation
- 4. The three primary colours define which of these colour models?
 - CMY and HSV (a) (b) RGB and HSV
 - RGB and CMY (c) HSV and HLS (d)
- 5 Display card are
 - (a) VGA EGA (b)
 - (c) Both (a) and (b) (d) None of above
- 6. The additive colour models use the concept of
 - (a) Printing ink
 - Light to display colour (b)
 - Printing line (c)
 - (d) None of these
- The Cohen-Sutherland algorithm divides the 7. region into how many spaces?

2

- 9 (b) S (a)
- (d) 6 (c) 7
- S.No. 2057
- Pixel Can Be Arranged In A Regular 13.
 - **One Dimensional Grid** (a)
 - Two Dimensional Grid (b)
 - Three Dimensional Grid (c)
 - None Of These (d)
- basic Colour Each Pixel Has 14. Components.
 - One Or Two (b) Two Or Three (a)
 - None Of These Three Or Four (d) (c)
- Vector Graphics Is Composed Of 15.
 - Pixels (b) Paths (a) None Of These
 - (d) Palette (c)
 - PART B $(2 \times 5 = 10 \text{ marks})$

Answer any TWO questions out of Five.

- Compare LCD and LED Systems. 16.
- Narrate the concept of Random scan systems. 17.
- Outline the concept of Two-Dimensional viewing 18. pipeline.
- Derive 3D rotation matrix with respect to z-axis. 19.
- Discuss about the area subdivision method. 20. S.No. 2057 4

[P.T.O.]

Which of these is a technique used for the 8. production of colour displays with some random CRT scan monitors?

- **Direct View Storage** Gas-Discharge (b) (a)
- **Beam Penetration** (d) Shadow Mask

Which of these is NOT a component of the 9. Memory tube display?

Ground Liquid Crystal (b) (a)

- Flooding gun (d) Collector (c)
- Select the byte for 16*16 array of black and white 10. pixels?
 - 128 bytes (b) 64 bytes (a) 96 bytes (d)
 - 32 bytes (c)
- The display controller change 0s and 1s into? 11.
 - Electronics signal (b) TV monitor (a) None of these (d) Video signal (c)

3

Types Of Computer Graphics Are 12.

- Scalar And Raster (a)
- Vector And Raster (b)
- Vector And Scalar (c)
- None Of These (d)

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FRENCIPAL SENGUNTHAP APPT AND SCIENCE COLLEGE TIRECHEMOUSE 657 AVS.

(c)

2.

PART C — $(5 \times 10 = 50 \text{ marks})$

Answer ALL questions.

21. (a) Relate Raster Scan and Random Scan Displays.

\mathbf{Or}

- (b) Explain Colour CRT Monitors with neat diagram.
- 22. (a) Construct DDA Algorithm for generating straight line.

Or

- (b) Discuss about Image Scanners with details.
- 23. (a) Interpret how composite transformations are performed in 2D.

\mathbf{Or}

- (b) Explicate in detail Line clipping algorithms.
- 24. (a) Illustrate various types of projections with examples.

Or

(b) Explain briefly about three-dimensional display methods.

5

S.No. 2057

25. (a) Elaborate the depth buffer method in details.

Or

(b) Discuss about the BSP tree method with details.

6

ATTESTED 3 FRENCIPAL SENGUNTHAP APPS APPS SCIENCE COLLEGE TIRECHERCOUR 657 AVS.

(6 buckes) S.No. 2227

19UCADE 19UCS03/19UIS03

(For the cambdates admitted from 2019-2020 cawards)

R.C.A. / R.So. DEGREE EXAMINATION. DEN KMENER 2022

Fourth Semester

RELATIONAL DATABASE MANAGEMENT SYSTEMS

(Common for : B.Sc. Computer Science / 18)

Tune : Three hours

Maximum : 75 marks

PART A -- (13 x 1 = 13 marks)

Answer ALL questions.

An entity is represented by set of -1.

- (a) Attributes (b) Nelationship
- (c) Model (d) None of these
- 2 DEMS stands for
 - (a) Data Base Managerial System
 - Directory Management System (6)
 - DataBase Management System (0)
 - (d) Directory Managerial System

- Which of the following constraint can be enforced 9. one per table?
 - (a) Primary key
 - Foreign key (0)
- The redundancy is reduced in a database table by 10. form. using the -
 - (b) Normal (a) Abnormal
 - (d) None (c) Special
- Which of the following is not a type of normal 11. form?
 - (b) 2NF (a) 1NF
 - (d) 10NF SNE (.)
- When a relation is in 2NF and there is 12. - it is in SNF.

3

- (a) Transition Dependency
- No Transition Dependency (6)
- Relational Dependency (0)
- No relational Dependency (1)

- 2 In a relational model, relations are termed as (a) Tables (b) Attributes
 - (c) norles (d) Kews
- 4. Which command is used to create a new table in SQL
 - (a) Build table (b) Create table

(C) Format table (d) None of these.

- We can apply the appropriate to a group of sets of 3 tuples using -- clause
 - (b) group by (a) grouning
 - (c) group set (d) \$7000 in
- 12 Using the -- clause retains only one copy of identical tuples
 - (a) Distinct (b) is not null
 - (c) to repeat (d) from
- Which of the following is not an integrity function? 1.
 - (a) not null (b) Unique
 - (c) identical (i) check
- is a predicate that we expect the \$ database to always satisfy
 - (b) Reason (a) Assertion
 - Mandate (3) (d) Verily
 - S.No. 2227 5
- 13. A transaction that is inserting a new tuple into the database is given on
 - (a) Shared Lock (b) Mutual Lock
 - (c) Exclusive Lock (5) No look
- 14. The two modes of looking a data item are termed as 'shared' and
 - (a) Composite (b) Compatible
 - (c) Exclusive (E) Limear
- 13. Two-Phase Locking does not ensure freedom from
 - (a) Obtain Locks (b) Rolease Locks
 - (3) Smithek 120 New Lock
 - PART B $-(2 \times 5 = 10 \text{ marks})$

Answer any TWO questions.

- 16. What is the purpose of database systems?
- 17. Write a short note on null values.
- 18. Explain about constraints in SQL
- What are the phifalls of relational databases 191 design?

k

20. Write a short note on transaction concegts.

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FRENCIPAL SENGUNTHAR AND SCHWEP COLLEGE TIRUCHEMAUNE 657 AVS.

- - (b) Net null
 - (d) None

PART C --- (5 × 10 = 50 marks)

Answer ALL questions.

21. (a) Explain about applications of database systems.

Or

- (b) Explain about structure of relational databases.
- 22. (a) Illustrate set operations in SQL.

\mathbf{Or}

(b) Elaborate aggregate functions in SQL.

23. (a) Illustrate triggers in SQL.

Or

- (b) Write about authorization in SQL.
- 24. (a) Illustrate first and second normal forms in detail.

Or

(b) Explain about Boyce-code normal form.

5

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25. (a) Explain briefly about Serializability.

Or

(b) Explain about two-phase locking protocol in detail.

6

ATTESTED FRENCIPAL SENGUNTHAP APOT AND SCIENCE COLLEGE TIRECHERCLOSE 657 AVS.

S.No. 2238

19UCA12/ (For the candidates admitted from 2019-2020 onwards) B.C.A./B.Sc. DEGREE EXAMINATION, DECEMBER 2022. Fifth Sixth Semester GUI PROGRAMMING (Common for B.Sc. Computer Science (IS) Time : Three hours Maximum : 75 marks PART A -- (15 × 1 = 15 marks) Answer ALL questions. 1.

- The window in which the individual documents are displayed is called ______window. (a) Main
- (b) Child (c) Parent
- (d) Root

_ is the process of finding and removing errors.

- (a) Checking (b) Compiling
- (c) Debugging (d) Quick watch

- 3. _ loop repeats a group of statements for each item in a collection of objects or for each element of an array.
 - (a) While loop (b) Do Until loop
 - (c) Do while loop (d) For each loop

MDI stands for ____

- (a) Multiple Document Interface.
- (b) Multiple Design Interface.
- (c) Manipulated Document Interface.
- (d) Menu Design Interface.
- _____ do not return a value. 5.
 - (a) Sub procedure
 - (b) Function procedure
 - (c) Property procedures
 - (d) All of these
- ____ property is used in VB for 6. The maximum form at run time.
 - (a) Caption
 - (b) Window resize
 - (c) Window status
 - (d) None of these
- S.No. 2238
- is a means of selecting 11. In GUI one of several options.

2

- (a) Option button
- (b) Scroll bar
- (c) List box
- (d) Combo box
- Property designates the text 12. appearing in the form's title bar.
 - (b) Name (a) Text
 - (d) None of these (c) Caption
- method is used to delete items from 13. a list box.
 - (b) Clear (a) Remove
 - (c) Remove item (d) Delete
- 14. To load graphics on a control at runtime, we have to use the function
 - (b) LoadPicture (a) LoadImage
 - (d) None of these (c) LoadGraphic
- 15. Which of the following is not the property of a TextBox?
 - (b) Multiline (a) List count
 - (d) Maximum length (c) Scroll bar

4

S.No. 2238 [P.T.O.]

(a)	.frm	
	1-	



- (c) Hidden
- Which window displays a list of all forms and modules making up your application.
 - (a) Project window

 - (b) Properties window
 - Form layout window (c)
 - (d) All of the above
 - In _____ window we can write code.
 - (a) Immediate window
 - (b) Local window
 - (c) Code editor window
 - (d) None of these
- 10. In visual basic _____ is the extension to

3

- - represent project file. (b) .vbp
 - (d) .vb
 - .cls (c)

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- 124

- (a) Name

2

7.

8.

9.

- (d) Password char
- _ is property is used to hide the content in textbox with some symbols.
- (b) Caption

PART B — $(2 \times 5 = 10 \text{ marks})$

Answer any TWO questions.

- 16.
- Briefly explain how to find and fix errors in VB. 17.
- Discuss in detail about Multiple if statement in 18.
- Explain in detail about adding forms to project. 19.
- Briefly explain do while statement with sample 20.
- Define Data Control, explain in detail with database connectivity

PART C --- (5 × 10 = 50 marks)

Answer ALL questions.

21. Discuss in detail about visual basic controls (a) with sample coding for any tools.

Or

- (b) Briefly Explain the object-oriented programming concept.
- 22. Write a Visual Basic program to perform (a) calculator operations.

Or

Discuss in detail about option button in VB (b) with simple program.

5

S.No. 2238

23. (a) Briefly explain Menu Editor in VB with example.

Or

(b) What is Sub procedure? Write the declaration syntax and simple example for sub procedure.

D

24. (a) Briefly explain listbox and its properties in VB.

Or

- Explain in detail about Menu Editor in VB. (b)
- Explain in detail about Active X objects in 25. (a) VB.

Or

Discuss in detail about combo boxes and its (b) properties.

6

ATTESTED SENGUNTHAP APTY ANT SCHWOT COLLEGE TIRECHERCOUR 637 INS.

(E pages) S.No. 2132

21UCA06/21UCS04/ 21UIS04

(For the candidates admitted from 2021-2022 onwards)

B.C.A.B.S. DECREE EXAMINATION, DECEMBER 2000

Third Semester

RELATIONAL DATABASE MANAGEMENT SYSTEMS

(Common for B.Sc. (CS)/B.Sc. (IS))

Time : Three hours

Maximum : 75 marks

PARTA — $(15 \times 1 = 15 \text{ marks})$

Answer ALL questions.

Choose the correct answer.

- 1 Which of the following is not a type of database?
 - (a) Hierarchical (b) Network
 - (d) Decentralization (0) Distributed
- The function that an entity plays in a relationship 2 is called that entity is _
 - (b) Position (a) Participation
 - (d) Instance (c) Role

2NF relations are those that are in 1 NF with all types dependent on the 8. attribute the

> (b) Foreign Primary

key.

- (d) Alternate Composite (c)
- The Database Administrator who authorizes all the new users, modifies the database and takes 9. grants privilege is
 - Super user (a)

(2)

- Administration (b)
- Operator of operating system (c)
- All the mentioned (d)
- 10. PL/SQL is a
 - (a) Brick structured Language
 - Block structured Language
 - (b) Banner structured Language
 - (c) Build structured Language (d)
 - A value is assigned to a constant in PL/SQL at the

3

(d)

- 11.
 - time of . Initialization
 - (a)
 - Valuation (c)

Numeralization

(b) Declaration

S.No. 2532 126

- The entity relationship set is represented in E-R 3 diagram as ____
 - (a) Double diamonds (b) Undivided rectangle
 - Dashed lines (d) Diamond (c)
- Which of the following is not a type of Relational 4 Operation?
 - (a) select operation (b) set difference
 - (d) Cartesian product (c) set update
- Projection operation is denoted by _____ 5.
 - (b) R (a) P
 - (d) π (c) 0

Which of the following is not a valid SQL type? 6.

- (b) Numeric (a) Float
- (d) Character (c) Decimal
- Redundancy is reduced in a database table by 7. form. using the

2

- (b) Normal (a) Abnormal
- (d) None (c) Special
 - S.No. 2532
- 12. Which of the following is NOT a type of PL/SQL literal?
 - (b) String (a) Numeric
 - (d) Check (c) Boolean
- _ is a special kind of stored 13. A procedure that executes in response to the certain action on the take like insertion, deletion or updation of data.
 - (a) Procedure
 - Triggers (b)
 - Functions (c)
 - None of the mentioned (d)
 - SQL views are also known as _____
 - (b) Virtual tables Simple tables (a)
 - (d) Actual tables Complex tables (c)
- What are the different in triggers? 15.
 - (a) Define, Create
 - Drop, Comment (b)
 - Insert, update, Delete (c)
 - (d)
 - 4

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4.

- - - All of the mentioned

PART B — $(2 \times 5 = 10 \text{ marks})$

Answer any TWO questions.

- 16. Give the role of Database Administrators. users and
- Bring out the modification of the Database.

17.

- 18. Point out the importance of Data Encryption.
- 19. Categorize exceptions with suitable example.

20. Distinguish between Records and Tables.

PART C — $(5 \times 10 = 50 \text{ marks})$

Answer ALL questions. All questions carry equal marks.

21. (a) Elucidate Database Architecture in detail.

Or

- Explicate Database Languages in detail. (b)
- Describe set operations with example. 22. (a)

Or

Elucidate Relational calculus in detail. (b)

5

S.No. 2532

- Explain the pitfalls in Relational Database 23. (a) design. Or
 - Illuminate Boyce Codd Normal form in (b) detail.
- Narrate the concept of cursors in PL/SQL. 24. (a)

Or

Explain transaction control statements with (b) example.

Elucidate procedures in PL/SQL. 25. (a)

Or

6

Expound Triggers with example. (b)

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(For the candidates admitted from 2019-2020 onwards)

B.C.A./B.Sc. DEGREE EXAMINATION, DECEMBER 2022.

Fifth/Sixth Semester

JAVA PROGRAMMING

(Common for: B.Sc. Computer Science/IS)

Time : Three hours

1.

9.

Maximum : 75 marks

PART A — $(15 \times 1 = 15 \text{ marks})$

Answer ALL questions.

Choose the best answer:

- Who invented Java Programming?
- (a) Guido van Rossum
- (b) James Gosling
- (c) **Dennis** Ritchie
- (d) Bjarne Stroustrup

- Which component is used to compile, debug and 2. execute the Java programs? (a) JRE (b) JIT
 - (c) JDK (d) **JVM**
- What is the extension of java code files? 3. (a) .19 (b) .txt
 - (c) class (d) .java
- Which of the following is not a valid jump 1 statement?
 - (a) return (b) continue (c) break (d) goto

5

- Which of the following is not a decision making
- statement? (a) if-else (b) do-while
- awitch (d) if (c)
- Which of the following is used with the switch 6 statement?
 - (a) break (b) do Continue (c) Exit (d)
- Which of these keywords is used to define 7 interfaces in Java?
 - (b) Interface interface (a) Intf (d) (c) intf S.No. 2231 2

- What keyword is used to declare an interface in B. Java?
 - (b) interface (n) class
 - abstract (d) implements (c)
 - Java interface can contain
 - **Final** variables (a)
 - Abstract methods (b)
 - Non-abstract methods (c)
 - Final variables and abstract methods (d)
- Thread priority in Java is? 10.
 - Float (b) Integer (a)
 - long (d) double (c)
- When a class extends the Thread class, it should - method of Thread class to 11. override
 - start the thread. (b) run() start() (a) (d) go()
 - init() (c)
- Which function of pre defined class Thread is used to check whether current thread being checked is 12. still running?
 - (b) join() isAlive() (a) Alive() (d) isRunning() (c) S.No. 2231 3

- Which of these methods can be used to output a 13. string in an applet? 1 .
 - (b) print() (a) display()
 - (d) transient() (c) drawstring()
- Which of these class contains the methods used to 14. write in a file?
 - FileStream (a)
 - FileInputStream (b)
 - BUfferedOutputStream (c)
 - FileBufferStream (d)
- Which of these exception is thrown in cases when 15. the file specified for writing is not found?
 - (a) IOException
 - (b) FileException
 - FileNotFoundException (c)
 - FileInputException (d)

PART B — (2 × 5 = 10 marks)

Answer any TWO questions out of Five.

- List the Eight Basic Data types used in Java. Give 16. Examples.
- Discuss in detail about Classes and Objects in 17. Java with example. 4
 - S.No. 2231 [P.T.O]

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- Examine in detail about how to handle Packages in Java with example.
- Analyze in brief about the method for passing parameters to applets with Illustrative Program.
- What are Input and Output Streams? Explain them with illustration.

PART C --- (5 × 10 = 50 marks)

Answer ALL the questions. Choosing Either (a) or (b).

 (a) What is a token? List the various types of tokens supported by Java.

Or

- (b) Enumerate in briefly about different kinds of operators in Java with examples.
- 22. (a) Write a Java Program to find all possible roots of a quadratic equation $Ax^2 + Bx + C = 0$.

Or

(b) Explain the Concept of Method and Constructor Overloading with example.

5

S.No. 2231

 (a) What are the Applications of Wrapper Classes? Explain with example.

Or

- (b) Assess in brief about Java Interface with example.
- 24. (a) What are the uses of try and catch statement in Java? Explain with example.

Or

- (b) What are the uses of isAlive() and join() methods in Thread? Examine with suitable example.
- (a) Determine in detail about Java Graphics Class using Line Syntax with example.

Or

(b) Elucidate on Java Graphics Class using Rectangle Syntax with example.

6

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUC ENGODE

MONTHLY EXAMINATIONS - SEP 2022

CIRCULAR

It is informed that the Second Year (III Semester) will have their MONTHLY Examinations for TWO Hours (10.00 am - 12.00 pm) from 19.09.2022 as scheduled below:

DATE B.Com		B.B.A	B.Com.(C.A)	B.Sc.(MATHS)	
09.09.22	FINANCIAL MARKET	FINANCIAL MANAGEMENT	FINANCIAL MARKET	TAMIL-III ENGLISH-III	
12.09.22	BUSINESS LAW	HUMAN RESOURCE MANAGEMENT	BUSINESS LAW		
13.09.22	CORPORATE ACCOUNTING-I	MARKETING MANAGEMENT	CORPORATE ACCOUNTING-I	NUMBER THEORY	
14.09.22	BANKING THEORY LAW AND PRACTICE	PRODUCTION AND MATERIALS MANAGEMENT	MARKETING	DIFFERENTIAL EQUATIONS	
15.09.22	NMEC:ENTREPRENEURIAL DEVELOPMENT	MANAGERIAL ECONOMICS	FUNDAMENTALS OF COMPUTER AND TALLY	ALL:MATHEMATICAL STATISTICS	
16.09.22	ALL-BUSINESS STATISTICAL METHODS	NMEC:CELLULAR PHONES	ALL- BUSINESS STATISTICAL METHODS	NMEC- SALAIP PAATHUKAPPU VITHIKAL	
19.09.22		FUNDAMENTALS OF INSURANCE	NMEC: QUANTITATIVE APTITUDE – I	SBEC- FINANCIAL MATHEMATICS	

ATTESTED PRINCIPAL FRENCIPAL SENGUNTHAP APPS AND SCIENCE COLLEGE TIRUCHERCLORE 657 AVS. (A)51" B.B.A.. B.Sc.(MATHS)-(A,B) R/Com.(C.A) B.Com.

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE

· MONTHLY EXAMINATIONS - SEP 2022

CIRCULAR

It is informed that the Second Year (III Semester) will have their MONTHLY Examinations for TWO Hours (10.00 am - 12.00 pm) from 19.09.2022 as scheduled below:

B.C.A.

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DATE	B.Sc.(COMP)	B.C.A.	B.Sc.(MICRO)
09.09.22	TAMIL – III	DATA STRUCTURES AND ALGORITHMS	TAMIL-III
12.09.22	ENGLISH-III	OPERATING SYSTEM	ENGLISH-III
13.09.22	RELETAIONAL DATABASE MANAGEMENT SYSTEMS	RELETAIONAL DATABASE MANAGEMENT SYSTEMS	MICROBIAL GENETICS AND MOLECULAR BIOLOGY
14.09.22	NMEC; ENTREPRENEURIAL DEVELOPMENT	NMEC; ENTREPRENEURIAL DEVELOPMENT	COMPUTER APPLICATIONS – I
15.09.22	ALL : APPLIED ELECTRONICS-I	APPLIED ELECTRONICS- I	SBEC: APPLIED BIOTECHNIQUES
16.09.22	COMPUTER NETWORKS		NMEC: CONCEPTS OF BIOTECHNOLOGY

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B.Sc.(MICRO)

B.Sc.(COMP)-(A,B)

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CIRCULAR

It is informed that the Second Year (III Semester) will have their MONTHLY Examinations for TWO Hours (10.00 am - 12.00 pm) from 19.09.2022 as scheduled below:

		Con Doseller fim	:		
DATE	B.A. (ENG)	B.Sc.(CHEM)	B.Sc.(BIOTECH)	B.Sc.(PHYSICS)	B.Sc.(Biochem)
09.09.22	TAMIL-III	TAMIL-III	TAMIL – III	TAMIL-III	TAMIL-III
12.09.22	ENGLISH-III	ENGLISH-III	ENGLISH-III	ENGLISH-III	ENGLISH-III
13.09.22	CORE-V-FICTION	GENERAL CHEMISTRY-III	GENERAL MICROBIOLOGY	THERMAL AND STATISTICAL PHYSICS	ENZYMES
14.09.22	SBEC- CREATIVE WRITING	ALL: PHYSICS - I	ALLIED: BIOSTATISTICS	ALL: CHEMISTRY - I	ALL – III: BIOSTATISTICS
15.09.22	NMEC: ENTREPRENEURIAL DEVELOPMENT	NMEC: BASIC OF COMPUTER	SBEC: DEVELOPMENT BIOLOGY	NMEC: BASIC OF COMPUTER	NMEC: INDUSTRIAL CHEMISTRY
16.09.22	ALL-LITERARY FORMS AND TERMS	SBEC-POLYMER CHEMISTRY	NMEC- FUNDAMENTALS OF HUMAN PHYSIOLOGY	SBEC- CAREER COMPENTENCY SKILLS-I	SBEC: CELL BIOLOGY
19.09.22	SBCE-II SOFT SKILLS FO R CAREER film Studies COMMUNICATION			-	

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B.Sc.(Biochem)

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B.Sc.(PHYSICS)

B.Sc.(CHEM)

B.A.(ENG)

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B.Sc.(BIOTECH)- A, B

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It is informed that the Third Year (V Semester) will have their MONTHLY Examinations for TWO Hours (10.00 am - 12.00 pm) from 09.09.22 as scheduled below:

DATE	B.Com.	B.B.A.	B.Com.(CA)	B.Sc.(MATHS)	B.Sc.(ELECT.)
09.09.22	AUDITING	BUSINESS POLICY & STRATEGY	AUDITING	MODERN ALGEBRA - I	ELECTRONIC COMMUNICATION SYSTEMS
12.09.22	COST ACCOUNTING	OPERATIONS RESEARCH	COST ACCOUNTING	REAL ANALYSIS-I	IC'S AND THEIR APPLICATIONS
13.09.22	INCOME TAX LAW AND PRACTICE-I	COST ACCOUNTING	INCOME TAX LAW AND PRACTICE- I	COMPLEX ANALYSIS -I	ELE-8051 MICROCONTROLLER AND INTERFACING
14.09.22	INFORMATION TECHNOLOGY IN BUSINESS	FUNDAMENTALS OF RESEARCH METHODOLOGY	SOFTWARE DEVELOPMENT WITH VISUAL PROGRAMMING	ELE: I : OPERATIONS RESEARCH	ELE: MODERN TELEVISION SYSTEMS
15.09.22		ALL: MANAGEMENT INFORMATION SYSTEMS		ELE: II: DISCRETE MATHEMATICS	SBEC:ELECTRONIC INSTRUMENTATION
16.09.22		ELE-SERVICE MARKETING		SBEC-PROGRAMMING IN C	SBEC:COMPITETIVE SKILLS

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It is informed that the Third Year (V Semester) will have their MONTHLY Examinations for TWO Hours (10.00 am - 12.00 pm) from 19.09.2022 as scheduled below:

DATE	B.Sc.(COMP)	B.CA.	B.Sc.(MICRO)	B.A.(ENG)	B.Sc.(BOTANY)
09.09.22	GUI PROGRAMMING	WEB TECHNOLOGIES	MEDICAL	SHAKESPEARE	MORPHOLOGY & TAXONOMY OF
		TECHNOLOGIES	BACTERIOLOGY		ANGIOSPERM
12.09.22	PROBLEM SOLVING	PROBLEM SOLVING	MEDICAL	LANGUAGE AND	CYTOLOGY AND
	TECHNIQUES	TECHNIQUES	PARASITOLOGY AND ENTOMOLOLGY	LIGUISITIES	GENETICS
13.09.22	OPERATING SYSTEM	JAVA	MEDICAL MYCOLOGY	ENGLISH FOR	BIOINSTRUMENTATION
		PROGRAMMING		COMPETITIVE	AND BIOSTATICS
		91 H		EXAMINATION	-
14.09.22	COMPUTER NETWORKS	E-COMMERCE	FOOD & DAIRY	FEMINIST WRITING	PLANT BIOTECHNOLOGY
1 1107122		TECHNIQLOGTY	MICROBIOLOGY		
15.09.22	MULTI SKILL	MULTI SKILL	RECOMBINANT DNA	AMERICAN	AGRICULTURAL
	DEVELOPMENT	DEVELOPMENT	TECHNOLQGY	LITERATURE	MICROBIOLOGY
16.09.22					PLANT BREEDING AND
10107.22					PLANT UTILIZATION AS
					FOOD

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B.Sc.(COMP)-(A,B)	B.C.A.	B.Sc.(MICRO)	B.A.(ENG)	B.SC.(BOTANY)

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It is informed that the Third Year (V Semester) will have their MONTHLY Examinations for TWO Hours (10.00 am - 12.00 pm) from 19.09.2022 as scheduled below:

DATE	B.Sc.(CHEM))	B.Sc.(BIOTECH)	B.Sc.(PHYSICS)
.09.22	INORGANIC CHEMISTRY	PLANT BIOTECHNOLOGY	ELECTRICITY & MAGNETISM
.09.22	ORGANIC CHEMISTRY	IMMUNOLOGY AND IMMUNO TECHNOLOGY	BASIC ELECTRONICS
3.09.22	ELE-I-PHYSICAL CHEMISTRY	GENETIC ENGINEERING	ELE:SOLID STATE PHYSICS
4.09.22	ELE-II- ANALYTICAL CHEMISTRY	SBEC: NANO BIOTECHNOLOGY AND BIOINFORMATICS	ELE-APPLIED PHYSICS
5.09.22	SBEC-AGRICULTURAL CHEMISTRY	ELE: STEMCELL AND TISSUE ENGINEERING	SBEC-BIOMEDICAL INSTRUMENTATION
5.09.22	SBEC-IV –DYE STUFFS AND TREATMENT OF EFFLUENTS		SBEC-DIGITAL ELECTRONICS

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B.Sc.(PHYSICS)

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SENGUN THAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE MODEL EXAMINATIONS - NOVEMBER - 2022

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CIRCULAR

It is informed that the First Year (I Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.2022 as scheduled below:

DATE	B.Com.	B.B.A.	B.Com.(C.A)	B.A. (TAMIL)
28.11.22	TAMIL - I	TAMIL - I	TAMIL - I	TAMIL - I
29.11.22	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH
30.11.22	PRINCIPLES OF ACCOUNTANCY	PRINCIPLES OF MANAGEMENT	PRINCIPLES OF ACCOUNTANCY	நன்னால்
01.12.22	BUSINESS COMMUNICATION	BUSINESS COMMUNICATION	BUSINESS COMMUNICATION	இக்கால இலக்கியங்கள்
02.12.22	ALLIED - BUSINESS ECONOMICS	ALLIED - BUSINESS MATHEMATICS STATISTICS - I	ALLIED - BUSINESS APPLICATION SOFTWARE	தமிழ் இலக்கண வரலாறு
05.12.22	PROFESSIONAL ENGLISH FOR COMMERCE AND MANAGEMENT - I	PROFESSIONAL ENGLISH	PROFESSIONAL ENGLISH FOR COMMERCE AND MANAGEMENT - I	-
06.12.22	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA

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MODEL EXAMINATIONS - NOVEMBER - 2022

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It is informed that the First Year (I Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.2022 as scheduled below:

DATE	B.Sc.(COMP)	B.Sc.(BIOCHE)	B.Sc.(MICRO)	B.A. (ENG)	B.Sc.(Electronics)
28.11.22	TAMIL - I	TAMIL - I	TAMIL - I	TAMIL - I	TAMIL - I
29.11.22	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH
30.11.22	PROBLEM SOLVING THROUGH C	BASICS OF BIOCHEMISTRY	BASICS OF MICROBIOLOGY	POETRY	SEMI CONDUCTOR DEVICES
01.12.22	ALLIED - ALGEBRA AND CALCULUS	ALLIED - CHEMISTRY - I	ALLIED - BIOCHEMISTRY- I	ALLIED - SOCIAL HISTORY OF ENGLAND	ALLIED - ALGEBRA AND CALCULUS
02.12.22	PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCE - I	PROFESSIONAL ENGLISH	PROFESSIONAL ENGLISH - I	PROFESSIONAL ENGLISH	PROFESSIONAL ENGLISH - I
05.12.22				PROSE	SBEC: APPLIED ELECTRIC CIRCUIT
06.12.22	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA

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It is informed that the First Year (I Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.2022 as scheduled below:

DATE	B.C.A.	B.Sc.(BIOTECH)	B.Sc.(PHYSICS)
28.11.22	TAMIL - I	TAMIL - I	TAMIL - I
29.11.22	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH	COMMUNICATION ENGLISH
30.11.22	PROBLEM SOLVING THROUGH C	CELL BIOLOGY	PROPERTIES OF MATTER AND ACOUSTICS
01.12.22	ALLIED - ALGEBRA AND CALCULUS	ALLIED - BIOCHEMISTRY - I	ALLIED - ALGEBRA AND CALCULUS
02.12.22	PROFESSIONAL ENGLISH PHYSICAL SCIENCE - I	PROFESSIONAL ENGLISH - I FOR LIFE SCIENCE	PROFESSIONAL ENGLISH - I
96 .12.22	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA	MANAVALAKKALAI YOGA

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE MODEL EXAMINATIONS - NOVEMBER - 2022

CIRCULAR

It is informed that the Second Year (III Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.2022 as scheduled below:

DATE	B.Com	B.B.A.	B.Com.(C.A)	B.Sc.(MATHS)
28.11.22	FINANCIAL MARKET	FINANCIAL MANAGEMENT	FINANCIAL MARKET	TAMIL - III
29.11.22	BUSINESS LAW	HUMAN RESOURCE MANAGEMENT	BUSINESS LAW	FOUNDATION ENGLISH - III
30.11.22	CORPORATE ACCOUNTING - I	MARKETING MANAGEMENT	CORPORATE ACCOUNTING-I	NUMBER THEORY
01.12.22	BANKING THEORY LAW AND PRACTICE	PRODUCTION AND MATERIAL MANAGEMENT	MARKETING	DIFFERENTIAL EQUATIONS
02.12.22	NMEC:ENTREPRENEURIAL DEVELOPMENT	MANAGERIAL ECONOMICS	FUNDAMENTALS OF COMPUTER AND TALLY	ALLIED: MATHEMATICAL STATISTICS
05.12.22	ALLIED - BUSINESS STATISTICAL METHODS	NMEC: CELLULAR PHONES	ALLIED - BUSINESS STATISTICAL METHODS	NMEC: SALAI PAATHUKAPPU VITHIKAL
06.12.22		ELEMENTS OF INSURANCE	NMEC: QUANTITATIVE APTITUDE - I	SBEC: FINANCIAL MATHEMATICS

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE MODEL EXAMINATIONS - NOVEMBER - 2022

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It is informed that the Second Year (III Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.2022 as scheduled below:

DATE	B.A. (ENG)	B.Sc.(CHEM)	B.Sc.(BIOTECH)	B.Sc.(PHYSICS)	B.Sc.(Biochem)
28.11.22	TAMIL - III	TAMIL - III	TAMIL - III	TAMIL - III	TAMIL - III
29.11.22	FOUNDATION ENGLISH - III	FOUNDATION ENGLISH - III	FOUNDATION ENGLISH - III	FOUNDATION ENGLISH - III	FOUNDATION ENGLISH - III
30.11.22	CORE-V-FICTION	GENERAL CHEMISTRY - III	GENERAL MICROBIOLOGY	THERMAL AND STATISTICAL PHYSICS	ENZYMES
01.12.22	SBEC: CREATIVE WRITING	ALLIED: PHYSICS - I	ALLIED: BIOSTATISTICS	ALLIED: CHEMISTRY - I	ALLIED: III BIOSTATISTICS
02.12.22	NMEC: ENTREPRENEURIAL DEVELOPMENT MANAGEMENT	NMEC: BASIC OF COMPUTER	SBEC: DEVELOPMENTAL BIOLOGY	NMEC: BASIC OF COMPUTER	NMEC: INDUSTRIAL CHEMISTRY
05.12.22	ALLIED - LITERARY FORMS AND TERMS		NMEC: FUNDAMENTALS OF HUMAN PHYSIOLOGY	SBEC: CAREER COMPENTENCY SKILLS - I	SBEC: CELL BIOLOGY
06.12.22	FILM STUDIES				

TTESTED FRENCIPAL SENGUNTHAP APPY APPY SCIENCE COLLEGE TIPECHER-LODE 637 JUS То B.A.(ENG) B.Sc.(CHEM) B.Sc.(BIOTECH)- A, B B.Sc.(Biochem) B.Sc.(PHYSICS)

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE

MODEL EXAMINATIONS - NOVEMBER - 2022

CIRCULAR

It is informed that the Second Year (III Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.2022 as scheduled below:

DATE	B.Sc.(COMP)	B.C.A.	B.Sc.(MICRO)
28.11.22	TAMIL - III	DATA STRUCTURES AND ALGORITHMS	TAMIL - III
29.11.22	FOUNDATION ENGLISH - III	OPERATING SYSTEM	FOUNDATION ENGLISH - III
30.11.22	RELETAIONAL DATABASE MANAGEMENT SYSTEMS	RELETAIONAL DATABASE MANAGEMENT SYSTEMS	MICROBIAL GENETICS AND MOLECULAR BIOLOGY
01.12.22	ALLIED : APPLIED ELECTRONICS - I	ALLIED : APPLIED ELECTRONICS - I	FUNDAMENTALS OF COMPUTER
02.12.22	NMEC: ENTREPRENEURIAL DEVELOPMENT	NMEC: ENTREPRENEURIAL DEVELOPMENT	SBEC: APPLIED BIOTECHNIQUES
05.12.22	COMPUTER NETWORKS		NMEC: CONCEPTS OF BIOTECHNOLOGY

ATTESTED PRINCIPAL SENGUNTHAP APTY AND SCHWAT COLLEGE TIRECHERCOULE 63. 195. B.Sc.(COMP)-(A,B) B.C.A. B.Sc.(MICRO)

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ODD SEMESTER

SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE

MODEL EXAMINATIONS - NOVEMBER - 2022

CIRCULAR

It is informed that the Third Year (V Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.22 as scheduled below:

DATE	B.Com.	B.B.A.	B.Com.(CA)	B.Sc.(MATHS)	B.Sc.(ELECT.)
28.11.22	AUDITING	BUSINESS POLICY & STRATEGY	AUDITING	MODERN ALGEBRA - I	ELECTRONIC COMMUNICATION SYSTEMS
29.11.22	COST ACCOUNTING	OPERATIONS RESEARCH	COST ACCOUNTING	REAL ANALYSIS - I	IC's AND THEIR APPLICATIONS
30.11.22	INCOME TAX LAW AND PRACTICE - I	COST ACCOUNTING	INCOME TAX LAW AND PRACTICE - I	COMPLEX ANALYSIS - I	ELE: 8051 MICROCONTROLLER AND INTERFACING
01.12.22	INFORMATION TECHNOLOGY IN BUSINESS	FUNDAMENTALS OF RESEARCH METHODOLOGY	SOFTWARE DEVELOPMENT WITH VISUAL PROGRAMMING	ELE: I : OPERATIONS RESEARCH	ELE: MODERN TELEVISION SYSTEMS
02.12.22		ALLIED: MANAGEMENT INFORMATION SYSTEMS		ELE: II: DISCRETE MATHEMATICS	SBEC: ELECTRONIC INSTRUMENTATION
05.12.22		ELE: SERVICE MARKETING		SBEC: PROGRAMMING IN C	SBEC: COMPITETIVE SKILLS

ATTESTED FRENCIPAL SENGUNTHAR APPLY AND SCIENCE COLLEGE То TIRECHERCOUR 637 avs. Py B.Com. B.B.A B.Com.(CA) B.Sc.(MATHS)-(A,B) B.Sc.(ELEC

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MODEL EXAMINATIONS - NOVEMBER - 2022

CIRCULAR

It is informed that the Third Year (V Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.2022 as scheduled below:

DATE	B.Sc.(COMP)	B.CA.	B.Sc.(MICRO)	B.A.(ENG)	B.Sc.(BOTANY)
28.11.22	GUI PROGRAMMING	WEB TECHNOLOGIES	MEDICAL BACTERIOLOGY	SHAKESPEARE	MORPHOLOGY & TAXONOMY OF ANGIOSPERM
29.11.22	OPERATING SYSTEM	JAVA PROGRAMMING	MEDICAL PARASITOLOGY AND ENTOMOLOLGY	LANGUAGE AND LIGUISITIES	CYTOLOGY AND GENETICS
30.11.22	PROBLEM SOLVING TECHNIQUES	PROBLEM SOLVING TECHNIQUES	MEDICAL MYCOLOGY	ENGLISH FOR COMPETITIVE EXAMINATION	BIOINSTRUMENTATION AND BIOSTATICS
01.12.22	COMPUTER NETWORKS	E - COMMERCE TECHNIQUES	FOOD & DAIRY MICROBIOLOGY	FEMINIST WRITING	PLANT BIOTECHNOLOGY
02.12.22	MULTI SKILL DEVELOPMENT	MULTI SKILL DEVELOPMENT	RECOMBINANT DNA TECHNOLOGY	AMERICAN LITERATURE	AGRICULTURAL MICROBIOLOGY
05.12.22		/			PLANT BREEDING AND PLANT ÚTILIZATION AS FOOD

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE MODEL EXAMINATIONS - NOVEMBER 2022

CIRCULAR

It is informed that the Third Year (V Semester) will have their MODEL Examinations for THREE Hours (10.00 am - 1.00 pm) from 28.11.2022 as scheduled below:

DATE	B.Sc.(CHEM))	B.Sc.(BIOTECH)	B.Sc.(PHYSICS)	
28.11.2022	INORGANIC CHEMISTRY	PLANT BIOTECHNOLOGY	ELECTRICITY & MAGNETISM	
27.11.2022 ORGANIC CHEMISTRY		IMMUNOLOGY AND IMMUNO TECHNOLOGY	BASIC ELECTRONICS	
30.11.2022	ELE: I - PHYSICAL CHEMISTRY	GENETIC ENGINEERING	ELE: SOLID STATE PHYSICS	
01.12.2022	ELE: II - ANALYTICAL CHEMISTRY	SBEC: NANO TECHNOLOGY AND BIOINFORMATICS	ELE: APPLIED PHYSICS	
02.12.2022	SBEC: AGRICULTURAL CHEMISTRY	ELE: STEMCELL AND TISSUE ENGINEERING	SBEC: BIOMEDICAL INSTRUMENTATION	
05.12.2022	SBEC: IV DYE CHEMISTRY		SBEC: DIGITAL ELECTRONICS	

ATTESTED Jo Dona Juja SENGUNTHAP APAY AND SCHWAT COLLEGE TIRECHER ALL 637 445 RADIC M.N 1911112 B.Sc.(CHEM) B.Sc.(BIOTECH)- (A,B) B.Sc.(PHYSICS)

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TIRUCHENGODE – 637 205, NAMAKKAL DT., TAMILNADU

DEPARTMENT OF COMPUTER SCIENCE

I-MONTHLY EXAM MARCH-20223

CLASS : II-B.B.A

IV-SEMESTER

TIME : 2 HRS

MARKS: 50

SUBJECT :OBJECT MANAGEMENT INFORMATION SYSTEM

PART-A

10 * 1 = 10

CHOOSE THE CORRECT ANSWER

- is an organized portfolio of formal systems for obtaining processing and delivering information in support of the business operations and management of an organization.
 a) MIS b) DSS c) MRS d) None of the above
- 2. ____ expressly designed for the support of individual and collective decision-making.
 - a) MIS b) DSS c) TPS d) OIS
- 3. ____ are formal social units devoted to the attainment of specific goals.
 - a) Management b) Organization c) Decision Support System d) None of these
- 4. Information system that monitors the elementary activities and transactions of the organizations are ____
 - a) Management Level System b) Operational Level System c) Knowledge Level System
 - d) Strategic Level System
- 5. In MIS____ plays economically sound and logically in development process.
- a) Information b) Data c) Statements d) Data Flow.
- 6. Which one is the organizations Back Bone?
 - a) Capital b) Employee c) Management d) Both a & b
- 7. MIS is normally found in ______sector
- a) Service b) Education c) Manufacturing d) All of the above
- 8. The basic components of DSS are _
 - a) Database b) Model Base c) DSS Software System d) All of the above
- 9. _____ details are given by Management to Marketing Service System
 - a) Customer b) Employee c) Supplier d) None of the above
- 10. Which one of the following is not a prerequisite for a good MIS?
 - a) Database b) Support from staff c) Control and maintenance of MIS d) MIS executives

4 * 5 = 20

ANSWER ALL THE QUESTIONS

- 11.Explain the classification by Management Hierarchy?
- **12.Discuss about the importance of Information system?**
- 13.Describe about the components of information system resources?
- 14. Explain the Characteristics of MIS?

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PART-C

2 * 10 = 20

15.Explain the classification of Information?

ANSWER ALL THE QUESTIONS

16. Discuss about the Quality of Information System?

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DEPARTMENT OF COMPUTER SCIENCE

I-MONTHLY EXAM MARCH-20223

CLASS : I-B.C.A

II-SEMESTER

TIME: 2 HRS

PAPER CODE : 21UCA02

MARKS : 50

SUBJECT :OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++

PART-A 10 * 1 = 10

CHOOSE THE CORRECT ANSWER

1. Who invented C++

- a) Dennis Ritchie b) Ken Thompson c) Brian Kernighan d) Bjarne Stroustrup
- 2. What is C++
 - a) C++ is an object oriented programming language
 - b) C++ is a procedural programming language
 - c) C++ supports both procedural and object oriented programming language
 - d) C++ is a functional programming language
- 3. Which of the following user-defined header file extension used in c++?
 - a) hg b) cpp c) h d) hf
- 4. The C++ language is _____ object-oriented language.
 - a. Pure Object oriented b Not Object oriented c Semi Object-oriented or Partial Objectoriented d None of the above
- **5.** C++ is a ____ type of language.

a. High-level Language b. Low-level language c. Middle-level language d. None of the above

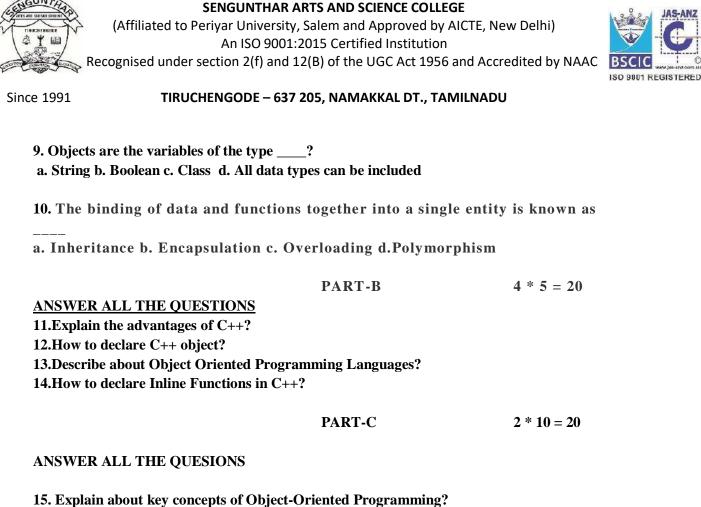
6. Every variable should be separated by ____ separator.

- a. Dot b. Colon c. Comma d. Semicolon
- 7. Which header file is required in C++ to use OOP?
- a) OOP can be used without using any header file b) stdlib.h c) iostream.h d) stdio.h

8. _____ is considered to be a partitioned area of computer memory that stores and set of operations that can access the data.

A. Classes B. Objects C. Variables D. Functions





16.Explain about Control Structures in C++?

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DEPARTMENT OF COMPUTER SCIENCE

I-MONTHLY EXAM MARCH-20223

CLASS : III.B.C.A

VI-SEMESTER

TIME : 2 HRS

MARKS : 50

SUBJECT :SBEC-VI-SHELL PROGRAMMING

PART-A 10 * 1 = 10

CHOOSE THE CORRECT ANSWER

- 1. What is a shell programming
- a) Group of commands b) a file containing special symbols c) a file containing a series of commands d) group of functions
- 2. The first line in any shell script begins with a _____
- a) & b) ! c) \$ d) #
- 3. In which language UNIX is written?
- a) C++ b) C c) JAVA d) Pyhton
- 4. Which Unix command is used for changing the current directory?a) Pwd b) rm c) cd d) cp
- 5. Which command is used for listing files in a directory?
- a) List b) ls c) wc d) ps
- 6. Which command is used for displaying the contents of a file in Unix?a) mkdir b) cat c) rm d) cp

7. echo command is used for _

a) displaying diagnostic messages b) displaying date and time c) displaying errors d) displaying operating system details

- 8. Which command is used for renaming files in Unix? a) rename b) move c) my d) cp
- a) renameb) movec) mvd) cp9. Which Unix command is used for counting words, lines, and characters in a file?
 - a) wc b) man c) count d) diff
- 10 . Which process is immediately set up by the kernel when we log on to a Unix system?a) System b) bash c) shell d) parent

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PART-B

4 * **5** = **20**

ANSWER ALL THE QUESTIONS

11. Write about login shell.

12. Explain about working with directories.

13. Discuss about changing directories.

14.Discuss about the Kernel and the Utilities

PART-C

2 * 10 = 20

ANSWER ALL THE QUESTIONS

15. Discuss about working with files.

16. What is mean by shell? Explain it.

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DEPARTMENT OF COMPUTER SCIENCE PRACTICAL EXAMINATIONS SCHEDULE - NOV/DEC-2022

CLASS : III-B.Sc (COMPUTE R SCIENCE)

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	: 07.12.2022	FN	20UCS2214-20UCS2260	41	19UCSP05	PROGRAMMING IN VB	A.SUGANTHI
2	08.12.2022	FN	20UCS2214-20UCS2260	41	19UCSSP01	SHELL PROGRAMMING	V.BALASUBRAMANIYAM

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CLASS : II-B.Sc (COMPUTE R SCIENCE)

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	: 21.12.2022	FN	C21UG127CSC001 - C21UG127CSC043	43	21UCSP03	SQL AND PL/SQL	S.SOUNDARARAJAN
2	22.12.2022	FN	C21UG127CSC001 - C21UG127CSC043	43	21UCSSP01	OFFICE AUTOMATION LAB	V.BALASUBRAMANIYAM

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DEPARTMENT OF COMPUTER SCIENCE PRACTICAL EXAMINATIONS SCHEDULE - NOV/DEC-2022

CLASS: III-B.C.A

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	12.12.2022	FN	20UCA1622-20UCA1637	15	19UCAP05	PROGRAMMING IN JAVA	G.SENTHILKUMAR
2	12.12.2022	FN	20UCA1622-20UCA1637	15	19UCASP01	IMAGE EDITING TOOL	E.PRABAKAR RAJ

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CLASS: II-B.C.A

1	19.12.2022	FN	C21UG127CAP001 - C21UG127CAP004, C21UG127CAP006 C21UG127CAP023	22	21UCAP03	SQL AND PL/SQL	A.SHAKESPEAR
2	31.3.2021	FN	C21UG127CAP001 - C21UG127CAP004, C21UG127CAP006 C21UG127CAP023	22	17UCASP02	OFFICE AUTOMATION LAB	S.SOUNDARAJAN

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DEPARTMENT OF COMPUTER SCIENCE PRACTICAL EXAMINATIONS SCHEDULE - MAY 2023

CLASS : III-B.Sc (COMPUTE R SCIENCE)

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	: 18.04.2023	FN	20UCS2214-20UCS2218, 20UCS2220-20UCS2222, 20UCS2224-20UCS2242, 20UCS2244, 20UCS2246-20UCS2250, 20UCS2252-20UCS2258, 20UCS2260	41	19UCSP06	PROGRAMMING IN JAVA	A.SUGANTHI
2	19.04.2023.	FN	20UCS2214-20UCS2218, 20UCS2220-20UCS2222, 20UCS2224-20UCS2242, 20UCS2244, 20UCS2246-20UCS2250, 20UCS2252-20UCS2258, 20UCS2260	41	19UCSSP02	IMAGE EDITING TOOL	S.SOUNDARARAJ AN

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CLASS : II-B.Sc (COMPUTE R SCIENCE)

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJEC T CODE	NAME OF THE SUBJECT	EXAMINER
1	: 20.04.2023	FN	C21UG127CSC001 - C21UG127CSC024, C21UG127CSC026, C21UG127CSC027, C21UG127CSC029 - C21UG127CSC043	41	21UCSP04	PROGRAMMING IN JAVA	V.BALASUBRAMANIYAM

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CLASS: I-B.Sc (COMPUTE R SCIENCE)

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJEC T CODE	NAME OF THE SUBJECT	EXAMINER
1	: 20.04.2023	FN	C22UG127CSC001 - C22UG127CSC043	40	21UCSP01	C PRORAMMING	M.CHINNUSAMY
2	20.04.2023	AN	C22UG127CSC044 - C22UG127CSC081, C22UG222CSC024, C22UG222CSC036	43	21UCSP01	C PRORAMMING	M.CHINNUSAMY
3	: 20.04.2023	FN	C22UG127CSC001 - C22UG127CSC043	40	21UCSP02	DATA STRUCTURE USING C	P.BALAMURUGAN
4	20.04.2023	AN	C22UG127CSC044 - C22UG127CSC081, C22UG222CSC024, C22UG222CSC036	43	21UCSP02	DATA STRUCTURE USING C	P.BALAMURUGAN

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CLASS : II-B.Sc (BIO-CHEMISTRY)

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	: 09.05.2023	FN	C22UG127CSC001 C22UG127CSC043	12	21UCSAP02	HTML PROGRAMMING	M.CHINNUSAMY

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CLASS: II-B.Sc (BIOTECHNOLOGY)

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	: 09.05.2023	FN	C21UG127BIT001 - C21UG127BIT008, C21UG148BIT018	09	21UCSAP02	HTML PROGRAMMING	M.CHINNUSAMY

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CLASS : II-B.Sc (MICROBIOLOGY)

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	: 08.05.2023	FN	C21UG127MIB001 C21UG127MIB022	22	21UCSAP01	OFFICE AUTOMATION	S.BALACHANDAR
1	: 08.05.2023	AN	C21UG127MIB001 C21UG127MIB022	22	21UCSAP01	OFFICE AUTOMATION	S.BALACHANDAR

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DEPARTMENT OF COMPUTER SCIENCE PRACTICAL EXAMINATIONS SCHEDULE - APRIL/MAY-2023

CLASS: III-B.C.A

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	18.04.2023	AN	20UCA1622-20UCA1637	15	19UCAP06	PROGRAMMING IN VB	S.BALACHANDAR
2	19.04.2023	AN	20UCA1622-20UCA1637	CA1637 15 19UCASP02 ANDROID PROGRAMMING		G.SENTHILKUMAR	

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CLASS: II-B.C.A

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
1	20.04.2023	AN	C21UG127CAP001 - C21UG127CAP004, C21UG127CAP006 C21UG127CAP023	22	21UCAP04	JAVA PROGRAMMING	A.SHAKESPEAR

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CLASS: I-B.C.A

S.NO	DATE	SESSION	REG.NO	NO.OF STUDENTS	SUBJECT CODE	NAME OF THE SUBJECT	EXAMINER
			C22UG127CAP001 -				
1	24.04.2023		C22UG127CAP007,		21UCAP01	C PROGRAMMING	E.PRABAKAR RAJ
		FN	C22UG127CAP009 -	27			
			C22UG127CAP028,				
			C22UG127CAP001 -				
2	21.04.2023	AN	C22UG127CAP007,		21UCAP02	C++ PROGRAMMING	S.BALACHANDAR
			C22UG127CAP009 -	27			
			C22UG127CAP028,				



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FRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLEGE FIRUCHENSODE - 637 205

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Scheme of Examination - December 2022

FN - 10.00 a.m. - 1.00 p.m. DEGREE : FOUNDATION PAPER

AN - 2.00 p.m. - 5.00 p.m.

	UNDATION PAPER	
PAPER CODE	TITLE OF THE PAPER	DATE & SESSION
	SEMESTER -1	
17UFEN01	ENGLISH - I	11-01-2023 FN
17UFTA01	TAMIL - I	09-01-2023 FN
19UFEN01	ENGLISH - I	11-01-2023 FN
19UFEN02	ENGLISH - II	11-01-2023 FN
19UFTA01		09-01-2023 FN
20UENC01	TAMIL - I	11-01-2023 FN
21UFMA01	COMMUNICATIVE ENGLISH - I MALAYALAM - I	09-01-2023 FN
21UFTA01	TAMIL - I	09-01-2023 FN
21UFTE01	TELUGU - T	09-01-2023 FN
	SEMESTER -2	
	SEMESTER -2	
17UFEN02	ENGLISH - II	11-01-2023 AN
17UFTA02	TAMIL - II	09-01-2023 AN
19UFEN02	ENGLISH - II	11-01-2023 FN
19UFHI02	HINDI - II	09-01-2023 AN
19UFTA02	TAMIL - II	09-01-2023 AN
19UFTE02	TELUGU - II	09-01-2023 AN
20UENC02	COMMUNICATIVE ENGLISH - II	11-01-2023 AN
21UFFR02	FRENCH - II	09-01-2023 AN
21UFHI02	HINDI - II	09-01-2023 AN
21UFMA02		09-01-2023 AN
21UFSA02	SANSKRIT - II	09-01-2023 AN
21UFTA02	FOUNDATION TAMIL - II	09-01-2023 AN
21UFTE02	TELUGU - 11	09-01-2023 AN
21UFUR02	URDU - II	09-01-2023 AN
	SEMESTER -3	
17UFEN03		10-01-2023 FN
17UFTA03	TAMIL - III	07-01-2023 FN
19UFEN03	ENGLISH -/ III	10-01-2023 FN
190FTA03	TAMIL - III	07-01-2023 FN
21UFFR03	FRENCH - III	07-01-2023 FN
210FHI03	HINDI - III	07-01-2023 FN
210FKA03	KANNADA - III	07-01-2023 FN
210FMA03	MALAYALAM - III	07-01-2023 FN
210FMA03	SANSKRIT - III	07-01-2023 FN
210FTA03	FOUNDATION TAMIL - III	07-01-2023 FN
210FTE03	TELUGU - III	07-01-2023 FN
210F1E03	URDU - III	07-01-2023 FN
22UFEN03	FOUNDATION ENGLISH - III	10-01-2023 FN
ZZUFENUS		10-01-2025 EN

ATTESTED

FRINCIPAL SENGUNTHAR ART'S AND SCIENCE COM TIRUCHENGODE - 637 20K

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Scheme of Examination - December 2022

AN – 2.00 p.m. – 5.00 p.m.

	AN – 2.	.00 p.m. – 5.00 p.m.
FN – 10.00 a.m	. – 1.00 p.m.	
	SEMESTER -5	26-12-2022 FN
		28-12-2022 FN
19UCD06	COMPUTERS IN GARMENT INDUSTRY	30-12-2022 FN
19UCD07	TEXTILE FINISHING	02-01-2023 FN
19UCD08	DYEING AND PRINTING	02-01-2025 11
190CDE01	MBEC - GARMENT QUALITY AND COST CONTROL	02-01-2023 FN
	SEMESTER -6	
17UCD09	ORGANISATION OF GARMENT UNIT	28-12-2022 AN
17UCDE02	MBEC - BOUTIQUE MANAGEMENT MBEC - FASHION MERCHANDISING	30-12-2022 AN
1/UCDE03	MBEC - FASHION MERCHANDISING	
DEGREE : B.	Sc CHEMISTRY	
PAPER CODE	TITLE OF THE PAPER	DATE & SESSION
	TITLE OF THE PAPER	
	SEMESTER -1	12-01-2023 FN
17UCH01	GENERAL CHEMISTRY - I	03-01-2023 AN
	ALLIED - ALGEBRA AND CALCULUS	31-12-2022 FN
17UPHA01	ALLIED - PHYSICS - I	31-12-2022 FN
19UBOA01	ALLIED - BOTANY - T	12-01-2023 FN
19UCH01	GENERAL CHEMISTRY-I	29-12-2022 FN
19UMAA01	ALLIED - ALGEBRA AND CALCULUS	18-01-2023 FN
19UPHA01	ALLIED - PHYSICS - I	18-01-2023 FN
19UZOA01	ALLIED - ZOOLOGY - I PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCE - I	19-01-2023 FN
20UPES01	ALLIED - BOTONY - I	18-01-2023 FN
21UBOA01	GENERAL CHEMISTRY-I	12-01-2023 FN
21UCH01 21UMAA01	ALLIED - ALGEBRA CALCULUS & FOURIER SERIES	18-01-2023 FN
21UPHA01	ALLIED - PHYSICS - I	13-01-2023 FN
21UZOA01	ALLIED - ZOOLOGY - I	18-01-2023 FN
	25WD00000 2	
	SEMESTER -2	
12UCH02		12-01-2023 AN
17UBOA02	ALLIED - BOTANY - II	03-01-2023 AN
17UCH02	GENERAL CHEMISTRY - II	12-01-2023 AN
17UCHS01	SBEC - FOOD AND NUTRITION	13-01-2023 AN
17UMAA02	ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE	31-12-2022 AN
	TRANSFORMS	
17UPHA02	ALLIED - PHYSICS - II	03-01-2023 FN
19UBOA02	ALLIED - BOTANY - II	03-01-2023 AN
19UMAA02	ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	18-01-2023 AN
19UPHA02	ALLIED - PHYSICS - II	03-01-2023 AN
19UZOA02	ALLIED - ZOOLOGY - II	03-01-2023 AN
20UPES02	PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCE - II	19-01-2023 AN
21UBOA02	ALLIED - BOTANY'- II	18-01-2023 AN
21UCH02	GENERAL CHEMISTRY - II	12-01-2023 AN
21UCHS01	SBEC - FOOD AND NUTRITION	13-01-2023 AN
21UMAA03	ALLIED - MATHEMATICS - II	02-01-2023 AN
21UPHA02	ALLIED - PHYSICS - II	18-01-2023 AN
21UZOA02	ALLIED - ZOOLOGY - II	2023 AN
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ATTESTED

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FRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLECT



FN - 10.00 a.m. - 1.00 p.m.

PERIYAR UNIVERSITY, Salem – 636 011 Office of the Controller of Examinations

Scheme of Examination - December 2022

AN - 2.00 p.m. - 5.00 p.m.

19UCHS02SBEC - POLYMER CHEMISTRY29-12-2022 FN19UMAA02ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE18-01-2023 ANTRANSFORMS19UPHA02ALLIED - PHYSICS - II03-01-2023 AN19UZOA02ALLIED - ZOOLOGY - II03-01-2023 ANSEMESTER -526-12-2022 FN17UCH05INORGANIC CHEMISTRY - I26-12-2022 FN17UCH06ORGANIC CHEMISTRY - I28-12-2022 FN17UCH07PHYSICAL CHEMISTRY - I30-12-2023 FN17UCH0801ELECTIVE - ANALYTICAL CHEMISTRY04-01-2023 FN17UCH503SBEC - AGRICULTURAL CHEMISTRY04-01-2023 FN17UCH05INORGANIC CHEMISTRY - I26-12-2022 FN17UCH05INORGANIC CHEMISTRY - I22-01-2023 FN19UCH05INORGANIC CHEMISTRY - I26-12-2022 FN19UCH05INORGANIC CHEMISTRY - I26-12-2022 FN19UCH06ORGANIC CHEMISTRY - I26-12-2022 FN19UCH07PHYSICAL CHEMISTRY - I26-12-2022 FN19UCH06ORGANIC CHEMISTRY - I26-12-2022 FN19UCH07PHYSICAL CHEMISTRY - I30-12-2022 FN19UCH001ELECTIVE - ANALYTICAL CHEMISTRY - I30-12-2022 FN19UCH201ELECTIVE - ANALYTICAL CHEMISTRY - I30-12-2022 FN19UCH201ELECTIVE - ANALYTICAL CHEMISTRY04-01-2023 FN19UCH203SBEC - AGRICULTURAL CHEMISTRY04-01-2023 FN19UCH204SBEC - DYE STUFFS AND TREATMENT OF EFFLUENTS04-01-2023 FN19UCH203SBEC - DYE STUFFS AND TREATMENT OF EFFLUENTS04-01-2023 FN <th></th> <th>SEMESTER -3</th> <th></th> <th></th>		SEMESTER -3			
170CRS02 GENERAL CHEMISTRY - 111 29-12-2022 FN 170MAA01 ALLIED - POLYMER CHEMISTRY 03-01-2023 AN 170MAA01 ALLIED - PHYSICS - I 31-12-2022 FN 190CR030 ALLIED - PHYSICS - I 31-12-2022 FN 190CR031 ALLIED - POLYMER CHEMISTRY 29-12-2022 FN 190CR031 GENERAL CHEMISTRY - 1II 29-12-2022 FN 190CR030 GENERAL CHEMISTRY - III 29-12-2022 FN 190CR031 ALLIED - PHYSICS - I 18-01-2023 FN 190CR031 ALLIED - PHYSICS - I 18-01-2023 FN 210CR031 ALLIED - PHYSICS - I 19-01-2023 FN 210CR031 ALLIED - PHYSICS - I 18-01-2023 FN 210CR031 ALLIED - PHYSICS - I 18-01-2023 FN 210CR031 ALLIED - PHYSICS - I 18-01-2023 FN 210CR031 ALLIED - BOTANY - II 03-01-2023 AN 170CR042 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2022 AN 170URA02 ALLIED - PHYSICS - II 03-01-2023 AN 170URA02 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2022 AN 170URA02 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2023 AN			27-12-2022		
1700mA01 ALLIED - ALGEBRA AND CALCULUS 31-12-2022 FN 170pHA01 ALLIED - ALGEBRA AND CALCULUS 31-12-2022 FN 190cA01 ALLIED - BOTANY - I 31-12-2022 FN 190cH03 GENERAL CHEMISTRY-III 29-12-2022 FN 190cH03 ALLIED - BOTANY - I 29-12-2022 FN 190cH03 ALLIED - ALGEBRA AND CALCULUS 29-12-2022 FN 190cH04 ALLIED - ALGEBRA AND CALCULUS 18-01-2023 FN 190cH04 ALLIED - DAUGENA AND CALCULUS 18-01-2023 FN 190cH04 ALLIED - DOOLOGY - I 18-01-2023 FN 210cH04 ALLIED - BOTONY - I 29-12-2022 FN 210cH04 ALLIED - BOTANY - III 13-01-2023 FN 210cH04 ALLIED - BOTANY - II 18-01-2023 FN 210cH04 GENERAL CHEMISTRY - IV 29-12-2022 AN 170cH04 GENERAL CHEMISTRY - IV 29-12-2022 AN 170cH04 GENERAL CHEMISTRY - IV 29-12-2022 AN 170cH050 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2023 AN 170cH050 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2023 AN 190cH042 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 18-01-2023 FN	170CH03	GENERAL CHEMISTRY - III	29-12-2022	EN	
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1900A01 ALLIED - BOTANY - I J1 12 2022 FN 1900CH03 GENERAL CHEMISTRY-III 29-12-2022 FN 1900CH03 SEEC - POLYMER CHEMISTRY 29-12-2022 FN 1900CH03 ALLIED - ALGEBRA AND CALCULUS 18-01-2023 FN 1900CH03 ALLIED - PHYSICS - I 18-01-2023 FN 1900CH03 ALLIED - BOTONY - I 29-12-2022 FN 2100CH03 ALLIED - PHYSICS - I 18-01-2023 FN 2100CH03 GENERAL CHEMISTRY - III 29-12-2022 FN 2100CH03 ALLIED - PHYSICS - I 13-01-2023 FN 2100CH03 ALLIED - BOTANY - II 03-01-2023 AN 1700CH04 GENERAL CHEMISTRY - IV 29-12-2022 FN 1700CH05 SBEC - POLYMER CHEMISTRY 29-12-2022 AN 1700CH04 GENERAL CHEMISTRY - IV 29-12-2022 AN 1700CH05 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2022 AN 1900CH02 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2022 AN 1900CH02 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2022 AN 1900CH02 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 18-01-2023 AN 1900CH02 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLA	17UPHA01	ALLIED - PHYSICS - I			
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190CHS02 SEEC - POLYMER CHEMISTRY 29-12-2022 FN 190MRA01 ALLIED - ALGEBRA AND CALCULUS 18-01-2023 FN 190PHA01 ALLIED - PHYSICS - I 18-01-2023 FN 190ZA01 ALLIED - PHYSICS - I 18-01-2023 FN 190ZA01 ALLIED - PHYSICS - I 18-01-2023 FN 210E0A01 ALLIED - PHYSICS - I 13-01-2023 FN 210CH03 GENERAL CHEMISTRY - III 13-01-2023 FN 210UPA01 ALLIED - PHYSICS - I 13-01-2023 FN 210UPA01 ALLIED - BOTANY - II 03-01-2023 AN 17UCH04 GENERAL CHEMISTRY - IV 29-12-2022 AN 17UCHS02 SBEC - POLYMER CHEMISTRY 29-12-2022 AN 17UCH04 GENERAL CHEMISTRY - IV 29-12-2022 AN 17UCH05 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 31-12-2022 AN 19UDA02 ALLIED - BOTANY - II 03-01-2023 FN 19UDA02 ALLIED - BOTANY - II 03-01-2023 AN 19UCH04 GENERAL CHEMISTRY - V 27-12-2022 AN 19UCH30 SBEC - POLYMER CHEMISTRY 29-12-2022 FN 19UCH30 ALLIED - DIFFERENT					
19UMAA01 ALLIED - ALGEBRA AND CALCULUS 19-12-2022 FN 19UPHA01 ALLIED - PHYSICS - I 18-01-2023 FN 19UZOA01 ALLIED - DOTONY - I 18-01-2023 FN 21UBOA01 ALLIED - BOTONY - I 18-01-2023 FN 21UDHA01 ALLIED - BOTONY - I 29-12-2022 FN 21UPHA01 ALLIED - FNYSICS - I 13-01-2023 FN 21UPHA02 ALLIED - DOTANY - II 03-01-2023 AN 17UCH04 GENERAL CHEMISTRY - IV 29-12-2022 AN 17UCH05 SEMESTER -4					
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210PHA01 ALLIED - PHYSICS - I 13-01-2023 FN 21UZOA01 ALLIED - ZOOLOGY - I 18-01-2023 FN SEMESTER -4 Interpretation of the second	21UCH03	GENERAL CHEMISTRY - III	29-12-2022	FN /	
21U2OA01 ALLIED - ZOOLOGY - I 18-01-2023 FN SEMESTER -4 ITUEDA02 ALLIED - BOTANY - II 03-01-2023 AN 17UCH04 GENERAL CHEMISTRY - IV 29-12-2022 AN 17UCH0502 SBEC - POLYMER CHEMISTRY 29-12-2022 AN 17UCHA02 ALLIED - DIFTERENTIAL EQUATIONS AND LAPLACE 31-12-2022 AN 17UPHA02 ALLIED - PHYSICS - II 03-01-2023 FN 19UBOA02 ALLIED - BOTANY - II 03-01-2023 AN 19UCH04 GENERAL CHEMISTRY - IV 27-12-2022 FN 19UCH04 GENERAL CHEMISTRY - IV 27-12-2022 FN 19UCH04 GENERAL CHEMISTRY - IV 27-12-2022 FN 19UCH04 GENERAL CHEMISTRY - I 03-01-2023 AN 19UCH05 ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE 18-01-2023 AN 19UPHA02 ALLIED - ZOOLOGY - II 03-01-2023 AN 19UZCA02 ALLIED - ZOOLOGY - II 03-01-2023 AN 19UZCA02 ALLIED - ZOOLOGY - II 03-01-2023 AN 19UZCH05 INORGANIC CHEMISTRY - I 26-12-2022 FN 170CH06 ORGANIC CHEMISTRY - I 26	21UPHA01	ALLIED - PHYSICS - I	13-01-2023	FN	
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100CUSOA SBEC - DYE STUFFS AND TREATMENT OF EFFLUENTS		SBEC - AGRICULTURAL CHEMISTRY			
		SBEC - DYE STUFFS AND TREATMENT OF EFFLUENTS			

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PERIYAR UNIVERSITY, Salem – 636 011 Office of the Controller of Examinations

Scheme of Examination - December 2022

EN 10.00		AN – 2.00 p.m.	– 5.00 p.m.
FN - 10.00 a.m	. – 1.00 p.m.	AN - 2.00 p	06-01-2023 FN
19UGGN02	NMEC - GEOGRAPHY OF TAMILNADU		05-01-2023 FN
19UGYN05	NMEC - GEOHAZARDS	× 1	06-01-2023 FN
19UHIN01	NMEC-WOMEN'S STUDIES		06-01-2023 AN
19UHIN02	NMEC -II- MAKERS OF MODERN INDIA		06-01-2023 FN
19UHMN02	NMEC - PRINCIPLES OF TOURISM		06-01-2023 AN
19UMAN01	NMEC - OUNDITED TOURISM		06-01-2023 AN
19UMAN02	NMEC - QUANTITATIVE APTITUDE - I	2	06-01-2023 FN
19UMAN04	NMEC - MATRIX ALGEBRA		06-01-2023 FN
19UMAN05	NMEC - QUANTITATIVE APTITUDE - II		06-01-2023 FN
19UMBN02	NMEC - NUMERICAL METHODS	1.5	06-01-2023 FN
19UMBN03	NMEC - MUSHROOM TECHNOLOGY		06-01-2023 FN
19UMBN04	NMEC - MUSHROOM TECHNOLOGY NMEC - ENTREPRENEURIAL MICROBIOLOGY NMEC - ELEMENTAL CONCEPTS OF MICROBIOLOGY		06-01-2023 FN
19UNDN01	NMEC - ELEMENTAL CONCEPTS OF MICROBIOLOGI		06-01-2023 FN
	NMEC-BASIC FOOD SCIENCE		06-01-2023 FN
19UNDN02	NMEC - BASIC NUTRITION		06-01-2023 FN
19UPHN02	NMEC - PHYSICS IN EVERYDAY LIFE		06-01-2023 FN
19UPSN02	NMEC-II- OUTLINES OF POLITICAL THEORY - II	~	06-01-2023 FN
19UPYN01	NMEC - PSYCHOLOGY FOR EFFECTIVE LIVING	25	06-01-2023 AN
19UTAN01	NMEC-SALAIP PAATHUKAPPU VITHIKAL	:	06-01-2023 FN
19UTAN02	NMEC- VILAMBARAKKALAI		06-01-2023 AN
19UTLN01	NMEC - SALAIP PAATHUKAPPU VITHIKAL		06-01-2023 FN
19UTLN02	NMEC - VILAMBARAKKALAI		06-01-2023 FN
19UZON01	NMEC- HUMAN HEALTH AND HYGIENE		06-01-2023 FN
19UZON02	NMEC - WILD LIFE MANAGEMENT		
21UAFN01	NMEC - MARKETING		06-01-2023 FN
21UBAN01	NMEC - ENTREPRENEURIAL DEVELOPMENT	1.4	06-01-2023 FN
21UBCN01	NMEC - FUNDAMENTALS OF HUMAN PHYSIOLOGY		06-01-2023 FN
21UBCN02	NMEC - BIOCHEMISTRY IN NUTRITION	1	06-01-2023 FN
21UBMN01	NMEC - SHARE MARKET OPERATIONS	1	06-01-2023 FN
21UBON01	NMEC - MUSHROOM CULTURE		06-01-2023 FN
21UBTN01	NMEC - CONCEPT OF BIOTECHNOLOGY		06-01-2023 FN
21UBXN01	NMEC - ENTREPRENEURIAL DEVELOPMENT		06-01-2023 FN
21UCAN01	NMEC - BASICS OF COMPUTERS		06-01-2023 FN
21UCAN02	NMEC - COMPUTER APPLICATIONS FOR AUTOMATIC	ON	06-01-2023 FN
21UCBN01	NMEC - MARKETING		06-01-2023 FN
21UCCN01	NMEC - MARKETING		04-01-2023 FN
21UCDN01	NMEC - BASIC TEXTILES		06-01-2023 FN
21UCHN03	NMEC - INDUSTRIAL CHEMISTRY	3č	06-01-2023 FN
21UCHN06	NMEC - FOOD CHEMISTRY		06-01-2023 FN
21UCHN07	NMEC - AGRO CHEMISTRY		06-01-2023 FN
21UCHN08	NMEC - POLYMER & PLASTICS		06-01-2023 FN
21UCMN01	NMEC - MARKETING		06-01-2023 FN
21UCON01	NMEC - FUNDAMENTALS OF CO-OPERATION		06-01-2023 FN
21UCSN01	NMEC - BASICS OF COMPUTERS		06-01-2023 FN
21UCSN02	NMEC - COMPUTER APPLICATIONS FOR AUTOMATI	ON	06-01-2023 FN
21UCYN01	NMEC - FINANCIAL SERVICES		06-01-2023 FN
21UECN01	NMEC - TOURISM AND ECONOMIC DEVELOPMENT		06-01-2023 FN
21UELN03	NMEC - CELLULAR PHONES		06-01-2023 FN
21UENN01	NMEC - SOFT SKILLS FOR CAREER COMMUNICATI	ON	06-01-2023 FN
21UGGN01	NMEC - GEOGRAPHY OF INDIA		06-01-2023 FN
21UHIN01	NMEC - WOMEN'S STUDIES		06-01-2023 FN
21UMAN01	NMEC - QUANTITATIVE APTITUDE - I		06-01-2023 FN
21UMBN01	NMEC - BIOFERTILIZER TECHNOLOGY		06-01-2023 FN
21UNDN01	NMEC - BASIC FOOD SCIENCE		06-01-2023 FN
21UPHN01	NMEC - PHYSICS IN EVERYDAY LIFE		06-01-2023 FN
210PRN01	NMEC - POLITICAL THEORY - I		06-01-2023 FN
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PERIYAR UNIVERSITY, Salem - 636 011 Office of the Controller of Examinations

Scheme of Examination - May 2023

AN - 2.00 p.m. - 5.00 p.m

	FN - 10.00 a.m.	1.00 a m				
	1 N - 10.00 a.m.	- 1.00 p.m.	SEMESTER: 4		24-05-2023	FN
	17UFTA04	TAMIL - IV			24-05-2023	FN
ļ	19UFTA04	TAMIL - IV	· · · ·		24-05-2023	FN
**	19UFTE04	TELUGU-IV			24-05-2023	FN
	21UFAR04	ARABIC - IV			24-05-2023	FN
	21UFFR04	FRENCH - IV			24-05-2023	FN
	21UFHI04	HINDI - IV			24-05-2023	FN
	21UFHI04	HINDI - IV			24-05-2023	FN
	21UFKA04	KANNADA - IV			24-05-2023	FN
	21UFMA04	MALAYALAM - IV			24-05-2023	FN
	21UFSA04	SANSKRIT - IV			24-05-2023	FN/
-	21UFTA04	TAMIL - IV			24-05-2023	FN
	21UFTE04	TELUGU - IV			24-05-2023	FN
	21UFUR04	URDU - IV		8 a -	26-05-2023	FN
	17UFEN04	ENGLISH - IV			26-05-2023	FN
	19UFEN04	ENGLISH - IV			26-05-2023	FN/
	22UFEN04	FOUNDATION ENGLISH - IV			20 00 21	
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FRINCIPAL SENGUNTHAR ART'S AND SCIENCE COM



PERIYAR UNIVERSITY, Salem - 636 011 Office of the Controller of Examinations

Scheme of Examination - May 2023

FN - 10.00 a.m. - 1.00 p.m.

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AN - 2.00 p.m. - 5.00 p.m

DECDEE -	1 00 p m	AN - 2.00 p.m 5.00 p.m	
DEGREE NAME:	B.Sc CHEMISTRY		
PAPER CODE	TITLE OF THE PAPER	EXAM DATE	SESSION
20UPES01	SEMESTER : 1	27-05-2023	AN
19UBOA01	PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCE - I		
	ALLIED - BOTANY - I	03-06-2023	 (6) (3) (3) (6) (3) (3) (7) (3) (3) (3)
17UPHA01	ALLIED - PHYSICS - I	05-06-2023	
21UPHA01	ALLIED - PHYSICS - I	05-06-2023	
17UBOA01	ALLIED - BOTANY - I	08-06-2023	
17UMAA01	ALLIED - ALGEBRA AND CALCULUS	08-06-2023	
19UMAA01	ALLIED - ALGEBRA AND CALCULUS	10-06-2023	
19UPHA01	ALLIED - PHYSICS - I	10-06-2023	
19UZOA01	ALLIED - ZOOLOGY - I	10-06-2023	
21UBOA01	ALLIED - BOTONY - I	10-06-2023	
21UMAA01	ALLIED - ALGEBRA CALCULUS	10-06-2023	
21UZOA01	ALLIED - ZOOLOGY - I	10-06-2023	
17UCH01	GENERAL CHEMISTRY - I	14-06-2023	1010101
19UCH01	GENERAL CHEMISTRY-I	14-06-2023	0202020
21UCH01	GENERAL CHEMISTRY-I	14-06-2023	AN
	SEMESTER: 2		
		27-05-2023	FN
20UPES02	PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCE - II	05-06-2023	
21UPHA02	ALLIED - PHYSICS - II	05-06-2023	
19UPHA02	ALLIED - PHYSICS - II	06-06-2023	
17UPHA02	ALLIED - PHYSICS - II	10-06-2023	
17UBOA02	ALLIED - BOTANY - II	10-06-2023	10078783
17UZOA02	ALLIED - ZOOLOGY - II	10-06-2023	
19UBOA02	ALLIED - BOTANY - II	10-06-2023	
19UMAA02	ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	10-06-2023	
19UZOA02	ALLIED - ZOOLOGY - II	10-06-2023	
21UMAA03	ALLIED - MATHEMATICS - II	10-06-2023	
21UZOA02	ALLIED - ZOOLOGY - II ALLIED - ZOOLOGY - II	10-06-2023	
22UZOA02	GENERAL CHEMISTRY - II	14-06-2023	FN
17UCH02	GENERAL CHEMISTRY - II	14-06-2023	
21UCH02	SBEC - FOOD AND NUTRITION	15-06-2023	FN
17UCHS01	SBEC - FOOD AND NUTRITION	15-06-2023	
21UCHS01	ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	16-06-2023	
17UMAA02		16-06-2023	
21UBOA02	ALLIED - BOTANY - II ALLIED - BOTONY - II	16-06-2023	
21UBOA02	ALLIED - BOTONT - II		14115
	SEMESTER: 3		
17UCH03	GENERAL CHEMISTRY - III	01-06-2023	AN
170CH03 19UCH03	GENERAL CHEMISTRY-III	01-06-2023	AN
19UCH03	GENERAL CHEMISTRY - III	01-06-2023	AN
21UCH03 17UCHS02	SBEC - POLYMER CHEMISTRY	03-06-2023	FN
17UCHS02 19UCHS02	SBEC - POLYMER CHEMISTRY	03-06-2023	FN
19UCH502 21UCH502	SBEC - POLYMER CHEMISTRY	03-06-2023	FN X
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	FIRUCHENGODE - 637 205		

PERIYAR UNIVERSITY, Salem - 636 011 Office of the Controller of Examinations Scheme of Examination - May 2023



	SALE TH	Scheme of E	xaminatio	n - way -	· AN -	2.00 p.m 5.00	p.m
EN1 40.00	2 Competences					03-06-2023	AN
FN - 10.00 a.m 1 19UBOA01	.00 p.m. ALLIED - BOTANY - I					05-06-2023	AN
17UPHA01						05-06-2023	AN .
19UPHA02	ALLIED - PHYSICS - I					05-06-2023	AN
21UPHA01	ALLIED - PHYSICS - II ALLIED - PHYSICS - I			**		06-06-2023	FN
17UPHA02				64	6	08-06-2023	AN
	ALLIED - PHYSICS - II			2		08-06-2023	AN
17UBOA01	ALLIED - BOTANY - I	CALCULUS		2 K.O.		10-06-2023	AN
17UMAA01	ALLIED - ALGEBRA AND					100 million and a second s	0.000
19UMAA01	ALLIED - ALGEBRA AND	CALCULUS			1	10-06-2023	fortes.
19UPHA01	ALLIED - PHYSICS - I					10-06-2023	
19UZOA01	ALLIED - ZOOLOGY - I					10-06-2023	
21UBOA01	ALLIED - BOTONY - I		×			10-06-2023	AN
21UZOA01	ALLIED - ZOOLOGY - I			TRANSFORMS		16-06-2023	FN
17UMAA02	ALLIED - DIFFERENTIA	LEQUATIONS A	ND LAPLAC	ETRANSPORT			a

SEMESTER: 4

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		the second	
	SEMESTER: 4	01-06-2023	FN
17UCH04	GENERAL CHEMISTRY - IV	01-06-2023	FN-
19UCH04	GENERAL CHEMISTRY-IV	01-06-2023	FN /
~21UCH04	GENERAL CHEMISTRY - IV	03-06-2023	FN
17UCHS02	SBEC - POLYMER CHEMISTRY	03-06-2023	FN
19UCHS02	SBEC - POLYMER CHEMISTRY	03-06-2023	FN/
21UCHS02	SBEC - POLYMER CHEMISTRY	05-06-2023	FN/
-21UPHA02	ALLIED - PHYSICS - II	05-06-2023	
19UPHA02	ALLIED - PHYSICS - II		FN
17UPHA02	ALLIED - PHYSICS - II	06-06-2023	1.00
17UBOA02	ALLIED - BOTANY - II	10-06-2023	FN
17UZOA02	ALLIED - ZOOLOGY - II	10-06-2023	FN
19UBOA02	ALLIED - BOTANY - II	10-06-2023	FN
19UMAA02	ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	10-06-2023	FN
19UZOA02	ALLIED - ZOOLOGY - II	10-06-2023	FN
22UZOA02	ALLIED - ZOOLOGY - II	10-06-2023	FN
17UMAA02	ALLIED - DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	16-06-2023	FN
21UBOA02	ALLIED - BOTONY - II	16-06-2023	FN
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SEMESTER: 5

			04 05 0000	ANI
	17UCH05	INORGANIC CHEMISTRY - I	31-05-2023	AN
	19UCH05	INORGANIC CHEMISTRY - I	31-05-2023	AN-
-	17UCH06	ORGANIC CHEMISTRY - I	02-06-2023	AN
	19UCH06	ORGANIC CHEMISTRY - I	02-06-2023	AN-
•	17UCH07	PHYSICAL CHEMISTRY - I	03-06-2023	FN
	19UCH07	PHYSICAL CHEMISTRY - I	06-06-2023	FN/
	17UCHS04	SBEC - DYE STUFFS AND TREATMENT OF EFFLUENTS	06-06-2023	AN
	17UCHE01	ELECTIVE - ANALYTICAL CHEMISTRY - 1	07-06-2023	AN.
	19UCHE01	ELECTIVE -ANALYTICAL CHEMISTRY - I	07-06-2023	AN
	17UCHS03	SBEC - AGRICULTURAL CHEMISTRY	09-06-2023	AN
	19UCHS03	SBEC - AGRICULTURAL CHEMISTRY	09-06-2023	AN
	19UCHS04	SBEC - DYE STUFFS AND TREATMENT OF EFFLUENTS	12 06-2023	AN

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PRINCIPAL SEMGUNTHAR ARTS AND SCIENCE COM



PERIYAR UNIVERSITY, Salem - 636 011 Office of the Controller of Examinations

Scheme of Examination - May 2023

AN - 2.00 p m. - 5.00 p m

FN - 10.00 a m. - 1.00 p.m.

SEMESTER: 6

		31-05-2023	FN
17UCH08	INORGANIC CHEMISTRY - II	31-05-2023	FN
19UCH08	INORGANIC CHEMISTRY - II	02-06-2023	FN
17UCH09	PHYSICAL CHEMISTRY - II	02-06-2023	FN-/
19UCH09	PHYSICAL CHEMISTRY - II	05-06-2023	FN
17UCHE02	ELECTIVE - ORGANIC CHEMISTRY - II	05-06-2023	FN-/
19UCHE03	ELECTIVE - ANALYTICAL CHEMISTRY - II	07-06-2023	FN
17UCHS05	SBEC - PHARMACEUTICAL CHEMISTRY	07-06-2023	FN-/
-19UCHS05	SBEC - PHARMACEUTICAL CHEMISTRY	09-06-2023	FN
17UCHS06	SBEC - INDUSTRIAL CHEMISTRY	09-06-2023	FN-
/19UCHS06	SBEC - INDUSTRIAL CHEMISTRY	12-06-2023	
17UCHE03	ELECTIVE - ANALYTICAL CHEMISTRY - II	12-06-2023	
19UCHE02	ELECTIVE - ORGANIC CHEMISTRY - II	12-06-2023	

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FRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLI TIRUCHENGODE - 637 205



PERIYAR UNIVERSITY, Salem - 636 011 Office of the Controller of Examinations

Scheme of Examination - May 2023

	None of Concession, Name	Scheme of Excert			0.00	
FN - 10.00 a.r	m 1.00 p.m.			AN ·	2.00 p.m 5.0 13-06-2023	
21UCAN03	NMEC - BASICS	OF INTERNET				
21UCDN02	NMEC - FUNDAN	MENTALS OF DESIGNING			13-06-2023	
21UCHN04	NMEC - BIOLOG	ICAL CHEMISTRY	· · · ·		13-06-2023	
21UCHN07	NMEC - AGRO C	HEMISTRY			13-06-2023	
21UCHN08	NMEC - POLYME	R & PLASTICS			13-06-2023	
21UCON02		RATIVE FINANCE AND BANK	NG		13-06-2023	
21UCSN03	NMEC - BASICS	OF INTERNET			13-06-2023	FN/
21UCYN02		RESOURCE MANAGEMENT			13-06-2023	
21UECN02	NMEC - FOREIGN	N TRADE MANAGEMENT			13-06-2023	1010210
21UELN04	NMEC - BASIC EI				13-06-2023	
21UENN02		NICATION FOR PLACEMENT			13-06-2023	FN
21UGGN02		PHY OF TAMIL NADU			13-06-2023	FN
21UHIN02		OF MODERN INDIA	×		13-06-2023	FN
21UMAN02	NMEC - LINEAR F		a		13-06-2023	FN
21UMAN03		ATIVE APTITUDE - II			13-06-2023	FN
21UMAN04	NMEC - NUMERIC				13-06-2023	FN
21UMBN02		OM TECHNOLOGY			13-06-2023	FN
21UMBN04		CONTROL IN INDUSTRIES	* (13-06-2023	FN
21UNDN02	NMEC - BASIC NU		13 A.		13-06-2023	FN
21UPHN02		VENTIONAL ENERGY SOUR	CES		13-06-2023	FN
21UPSN02	NMEC - POLITICA				13-06-2023	FN
21UPYN02	NMEC - PERSON	ALITY DEVELOPMENT			13-06-2023	1000
21USTN02	NMEC - BASIC ST		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1.1	13-06-2023	FN
21UTAN02	NMEC - VILAMPAR	RAKKALAI			13-06-2023	FN
21UTFN02	NMEC - FUNDAME	ENTALS OF DESIGNING		2	13-06-2023	FN
21UTLN02	NMEC - VILAMPAR		- *		13-06-2023	1201027
21UVCN02	NMEC - CITIZEN J	OURNALISM	4 B		13-06-2023	FN
22UZON02	NMEC - WILDLIFE	MANAGEMENT	\$)	*	13-06-2023	
17UBAN01	NMEC - PRINCIPL	ES OF MANAGEMENT	· · ·			FN
17UBON01	NMEC - MUSHROO				13-06-2023	AN
17UECN01	NMEC-TOURISM A	ND ECONOMIC DEVELOPME	ENT-I		13-06-2023	AN
17UHIN01	NMEC-WOMEN'S		all I'm		13-06-2023	AN
17UMAN01	NMEC - QUANTITA				13-06-2023	AN
17UTAN01	NMEC - SALAI PA	ATHUKAPPU VITHIKAL			13-06-2023	AN
19UBAN01	NMEC - PRINCIPLE	ES OF MANAGEMENT			13-06-2023	AN
19UCCN01	NMEC-MARKETING	G			13-06-2023	AN
19UCHN01	NMEC - DAIRY CHE	EMISTRY	ж т,		13-06-2023	AN
19UCMN01	NMEC-MARKETING	3			13-06-2023	AN
19UCSN01	NMEC - BASICS OF	COMPUTERS			13-06-2023	AN
19UGGN01	NMEC - GEOGRAP				13-06-2023	AN
19UHIN01	NMEC-WOMEN'S S		*		13-06-2023	AN
19UMAN01	NMEC - QUANTITAT		3		13-06-2023	AN
19UMBN02	NMEC - MUSHROO		8	~	13-06-2023	AN
19UPHN01	NMEC - ESSENTIAL				13-06-2023	AN
19UPYN01	NMEC - PSYCHOLO	OGY FOR EFFECTIVE LIVING			13-06-2023	AN
19UTAN01	NMEC-SALAIP PAA	THUKAPPU VITHIKAL			13-06-2023	AN
19UZON01	NMEC- HUMAN HE	ALTH AND HYGIENE	18) 2		13-06-2023	AN
21UAFN01	NMEC - MARKETING		Sector Sector Sector		13-06-2023	AN
			ATTESTED		13-06-2023	AN
	1. 3	Page 100	P.M.		13-00-2023	

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MINUTES OF DEPARTMENT MEETING

Department of Computer Science (Odd Semester (2022-2023)

Minutes of Meeting on 29-07-2022 at 1.30p.m. at HOD Cabin

S. No.	Points Discussed			
1	Staff members are asked to give proper syllabus to the students.			
2	Staff members should concentrate on students discipline for every day.			
3	Students should attend class at proper time and write points on their note.			
4	Stalf members should present at proper time in class room			
5	Staff members should give proper time table for students to attend regular class			
6	Staffs should take students attendance every hour via attendance slip and put attendance detail in Register.			
7	Staff members are asked to do not send students outside during class hour.			
8	Staff should cover all topics in every unit of subject,			
9	Staff should give assignment to the students and also students submit it at given time			

S. No.	Name of the Faculty Member	Designation	Signature
1	S.Balachandar	Assistant professor	tolor!
2	S.Soundararajan	Assistant professor	safet
3	E.Prabhakarraj		E/2021012-
4	A.Shakespear	Assistant professor	I WA
5	M.Chinnusamy	Assistant professor	tor Denat
6	G.Senthilkumar	Assistant professor	1820
7	V.Balasubramaniyam	Assistant professor	Jul
8	A.Suganthi	Assistant professor	ABE
9	Dr.S.Sivakumar	Assistant professor	Cilm

ATTESTED 2 PRINCIPAL SENGUNTHAR AND SCIENCE COLLEGE TIRUCHERLODE 637 205.

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Since 1901

SENGUNTHAR ARTS AND SCIENCE COLLEGE

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MINUTES OF DEPARTMENT MEETING

Department of Computer Science

Minutes of Meeting on 24.08.2022 at 1.30p.m. at HOD Cabin

S. No.	Points Discussed		
1 Students get any needs through subject incharge or class incharge fear			
2	Staff members should submit first internal test question paper and answer key to the department and follow seating arrangement.		
3	Students should write first internal test on this month with out absence		
3	3 Staffs should present at proper time in class and inform rules of the coll to the students.		
4	Staffs should maintain students attendance for internal mark purpose		
6	Staff should cover 1 or 1&1/2 unit for first internal test.		
7	Staff members are instructed to do NAAC work with out fail.		

S. No.	Name of the Faculty Member	Designation	Signature
1	S.Balachandar	Assistant professor	Sebry
2	S.Soundararajan	Assistant professor	8.997
3	E.Prabhakarraj	Assistant professor	
4	A.Shakespear	Assistant professor	AMA
5	M.Chinnusamy	Assistant professor	Deferret
6	G.Senthilkumar	Assistant professor	- a non
7	V.Balasubramaniyam	Assistant professor	V. D.
8	A.Suganthi	Assistant professor	Ajest
9	Dr.S.Sivakumar	Assistant professor	s.m

ATTESTED PRINCIPAL SENGUNTHAR APOS AND SCIENCE COLLEGE TIRUCHENLODE 637 205.

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MINUTES OF DEPARTMENT MEETING

Department of Computer Science

Minutes of Meeting on 14.09.2022 at 1.30p.m. at HOD Cabin

S. No.	Points Discussed	
1	Students get any important questions through subject incharge	
2	Staff members should cover 1 or 1&1/2 units for second internal tests	
3	Staff members should submit second internal test question paper and answer key to the department and follow seating arrangement,	
4 Students should write second internal test on this month with		
5	Staff members should maintain every month of students attendance for internal mark purpose	
6	Staffs are instructed to do naac work properly	
Students attend seminars or workshop or conference to inside or colleges.		
8	Staff members are asked to proper practical record work for ii and iii years students	
9	Staff members are asked to exam on line entry to be completed on giver date.	

S. No.	Name of the Faculty Member	Designation	Signature
1	S.Balachandar	Assistant professor	Solort
2	S.Soundararajan	Assistant professor	8998
3	E.Prabhakarraj	Assistant professor	
4	A.Shakespear	Assistant professor	AUND
5	M.Chinnusamy	Assistant professor	Jof Q ever
6	G.Senthilkumar	Assistant professor	19 Q
7	V.Balasubramaniyam	Assistant professor	14
8	A.Suganthi	Assistant professor	A
9	Dr.S.Sivakumar	Assistant professor	sim

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MINUTES OF DEPARTMENT MEETING

Department of Computer Science

S. No.	Points Discussed		
1	Students get any model questions through subject incharge		
2	Students should attend seminar,workshop,conference to other colleges		
4	Staff members should proper fresher's day for first year students.		
5	Staff members should cover all units for model exam and prepare progress reports to the students.		
6	Staff members should submit model question paper and answer key to the department and seating arrangement.		
7	Students should write model test on this month without absence		
8	Students should utilize college bus properly.		
9	Staff members are asked to do the naac work properly		
10	Students should keep practical record for university exam.		

Members Present:

S. No.	Name of the Faculty Member	Designation	Signature
1	S.Balachandar	Assistant professor	asobrit
2	S.Soundararajan	Assistant professor	8993
3	E.Prabhakarraj	Assistant professor	
4	A.Shakespear	Assistant professor	AFN
5	M.Chinnusamy	Assistant professor	Janestor
6	G.Senthilkumar	Assistant professor	ASP O
7	V.Balasubramaniyam	Assistant professor	100
8	A.Suganthi	Assistant professor	Alert
9	Dr.S.Sivakumar	Assistant professor	sign

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MINUTES OF DEPARTMENT MEETING

Department of Computer Science (Even semester (2022-2023)

Minutes of Meeting on 20-01-2023 at 1.30p.m. at HOD Cabin

S. No	Points Discussed			
1	Staff members are asked to give proper syllabus to the students.			
2	Staff members should concentrate on students discipline for every day.			
3	Students should attend class at proper time and write points on their note.			
4	Staff members should present at proper time in class room			
5	Staff members should give proper time table for students to attend regular class			
6	Staff members should take students attendance every hour via attendance slip and put attendance detail in Register.			
7	Staff members are asked to do not send students outside during class hour.			
8	Staff members should cover all topics in every unit of subject,			
9	Staff members should give assignment to the students and also students submit it at given time			
10	Staff members are asked to instruct the students to study the value added courses			

S. No	Name of the Faculty Member	Designation	Signature
1	S.Balachandar	Assistant professor	Salort
2	S.Soundararajan	Assistant professor	SERT
3	E.Prabhakarraj	Assistant professor	EPERATES
4	A.Shakespear	Assistant professor	T.C.D.
5	M.Chinnusamy	Assistant professor	Tagon 2 gon
6	G.Senthilkumar	Assistant professor	No -
7	V.Balasubramaniyam	Assistant professor	c bol
8	A.Suganthi	Assistant professor	1.55
9	Dr.S.Sivakumar	Assistant professor	sin

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MINUTES OF DEPARTMENT MEETING

Department of Computer Science

Minutes of Meeting on 17.02.2023 at 1.30p.m. at HOD Cabin

S. No	Points Discussed			
1	Students get any needs through subject incharge or class incharge without fear			
2	Staff members should submit first internal test question paper and answer key to the department and follow seating arrangement.			
3	All students should write first internal test on this month with present.			
4	Staff members should present at proper time in class and inform rules of the college to the students.			
5	Staff members should maintain students attendance for internal mark purpos			
6	Staff members should cover 1 or 1&1/2 unit for first internal test.			
7	Staff members are instructed to do NAAC work without fail.			
8	Staff members are asked to instruct the students to concentrate on the valu added courses			

S. Io	Name of the Faculty Member	Designation	Signature
	S.Balachandar	Assistant professor	Boox
		Assistant professor	
	S.Soundararajan	Assistant professor	Ella TIZIZZ
3	E.Prabhakarraj		Plan 1213
4	A.Shakespear	Assistant professor	AVA
	M.Chinnusamy	Assistant professor	top gon igi
6	G.Senthilkumar	Assistant professor	- The
7	V.Balasubramaniyam	Assistant professor	1.81
8	A.Suganthi	Assistant professor	Aint
		Assistant professor	s.h~
9	Dr.S.Sivakumar		

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MINUTES OF DEPARTMENT MEETING

Department of Computer Science

Minutes of Meeting on 17.03.2023 at 1.30p.m. at HOD Cabin

S. No	Points Discussed					
1	Students get any important questions through subject incharge					
2	Staff members should cover 1 or 1&1/2 units for second internal tests					
3	Staff members should submit second internal test question paper and answer key to the department and follow seating arrangement,					
4	Students should write second internal test on this month with present					
5	Staff members should maintain every month of students attendance for internal mark purpose					
6	Staff members are instructed to do naac work properly					
7	Students attend seminars or workshop or conference to inside or outside colleges.					
8	Staff members are asked to proper practical record work for the students					
9	Staff members are asked to apply on line application entry to be completed on given date.					
10	Students are instructed to concentrate on the value added courses					

Members Present:

S. No	Name of the Faculty Member	Designation	Signature
1	S.Balachandar	Assistant professor	Condry-
2	S.Soundararajan	Assistant professor	Serter
3	E.Prabhakarraj	Assistant professor	E200 11123
4	A.Shakespear	Assistant professor	4.640
5	M.Chinnusamy	Assistant professor	No com
6	G.Senthilkumar	Assistant professor	1 Etto D
7	V.Balasubramaniyam	Assistant professor	JPU
8	A.Suganthi	Assistant professor	Aret
9	Dr.S.Sivakumar	Assistant professor	Cibat

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MINUTES OF DEPARTMENT MEETING

Department of Computer Science Minutes of Meeting on 28.04.2023 at 1.30p.m. at HOD Cabin

3. No	Points Discussed		
1	Students get any model questions through subject incharge		
2	Students should attend seminar, workshop, conference to other colleges		
3	Staff members should concentrate farewell day for iii year students with help of I & II years .		
4	Staff members should cover all units for model examination and prepare progress reports to the students.		
5	Staff members should submit model question paper and answer key to the department and seating arrangement.		
6	Students should write model test on this month with present.		
7	Students should utilize college bus properly.		
8	Staff members are asked to do the naac work properly		
9	Students should keep practical record for university examination.		
10 Students are instructed to concentrate on the value added co			

Members Present:

S. No	Name of the Faculty Member	Designation	Signature
1	S.Balachandar	Assistant professor	orday
2	S.Soundararajan	Assistant professor	89-PJ
3	E.Prabhakarraj	Assistant professor	Eles 2214E3
4	A.Shakespear	Assistant professor	A. Com
5	M.Chinnusamy	Assistant professor	1 and star
6	G.Senthilkumar	Assistant professor	Jof G
7	V.Balasubramaniyam	Assistant professor	- ill
8	A.Suganthi	Assistant professor	Xint
9	the arts from a reaction of the second se	Assistant professor	3.tm

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MINUTES OF END SEMESTER MEETING

Department of Computer Science(Even Semester)

Minutes of End Semester Meeting on 15.05.2023 at 1.15 p.m. at HOD Cabin

S.No	Points Discussed		
	Staff members and Students should follow the instructions for the semester examination		
1	Students can receive hall ticket through class incharge for write the university examination.		
2	Students are instructed to check front page of exam paper(main sheet). (Reg.no, name of the student, name of degree, paper name, paper code, question paper s.no., date &session, student sign, no of pages written, check principal sign etc) and also total no of sheets.		
3	Students are instructed to bring hall ticket ,pen pencil, eraser scale for examination		
4	Staff members are instructed to check id card, hall ticket of each student in the exam hall.		
5	Staff members are instructed to alert in the exam hall.		
6	Students are instructed to come 10 minutes before for commencement of examination		

Members Present:

S. No	Name of the Faculty Member	Designation	Signature
1	S.Balachandar	Assistant professor	Edary
2	S.Soundararajan	Assistant professor	82PI
3	E.Prabhakarraj	Assistant professor	Elog TITL3
4	A.Shakespear	Assistant professor	A.
5	M.Chinnusamy	Assistant professor	to and at at
6	G.Senthilkumar	Assistant professor	1 Stores (110)
7	V.Balasubramaniyam	Assistant professor	and the second
8	A.Suganthi	Assistant professor	A. Cast
9	Dr.S.Sivakumar	Assistant professor	Chris

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> DEPRTMENT OF COMPUTER SCIENCE CLASS COMMITTEE MEETING - 2022-2023

CLASS: I, II.III B.Sc (CS) SEMESTER: ODD VENUE: PLACEMENT LAB

DATE: 20.07.22 TIME: 1.40 PM MEETING NO: 1

NAME OF THE CHAIR PERSON: Mrs. A.SUGANTHI, Mr. A.SHAKESPEARE, Mr. R.SENTHILKUMAR

S. NO	CLASS	NAME OF THE REPRESENTATIVE	REPRESENTATIVE SIGN
1		GOWTHAM.P	act_
2	I B So (CS)	HARIHARAN.E	FRANIHANAA.
3	I B.Sc (CS)	KISHORE.C	CK
4		PRIYANKA.V	V.Pnya
5		BALAJI.T	18.
6		GOWTHAM.S	
7	II B.Sc (CS)	SELVI.S	8 00
8		VANMATHI.B	B. Voly
9		G.KAVIRAJAN	G.G.L.
10	III B.Sc (CS)	K.S.ABISHEK	K.S. Ahich
11		M.ABINAYASRI	Mahad
12		V.ATCHAYA	VAT

The following points were discussed in the meeting

- 1. University Exam Result Were Discussed And Students Were Asked To Improve Their Performance
- 2. Students were instructed to be punctual for their classes and to maintain the proper dress code.
- 3. Students were instructed to be attentive in the classroom and lab classes.
- Students were advised to make their skills. Students were advised to maintain good internal marks.
- 5. Identifying the slow learners, if any and informing the staffs concerned to conduct coaching class to such students.
- 6. Instructed to attend the internal and university examination without fail.
- 7. It was decided to arrange one day industrial visit for the benefit of the students





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7. Syllabus completion.

S.NO	CLASS	NAME OF THE SUBJECT	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1		Tamil - I	1-UNIT	GIVEN	
2		English – I	1-UNIT	GIVEN	
3		Problem Solving Through C	I-UNIT	GIVEN	
4	1 B.Sc (CS)	Algebra and Calculas	1-UNIT	GIVEN	
5		Value Education	1-UNIT	GIVEN	
6		Profssional English For Physical Science	1-UNIT	GIVEN	
7		Tamil-III	1-UNIT	GIVEN	
8		English-III	1-UNIT	GIVEN	
9	II B.Sc (CS)	Relational Database Management Systems	1-UNIT	GIVEN	
10		Computer Network	1-UNIT	GIVEN	
11		Allied-II Applied Electronics-I	1-UNIT	GIVEN	
12		NMEC-I Business Management	1-UNIT	GIVEN	
13	-	GUI Programming	1-UNIT	GIVEN	
14	III B.Sc (CS)	Operating Systems	1-UNIT	GIVEN	
15		Computer Networks	1-UNIT	GIVEN	
16		SBEC-IV Multi Skill Development	1-UNIT	GIVEN	

ANY OTHER SUGGESTION:

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DEPRTMENT OF COMPUTER SCIENCE CLASS COMMITTEE MEETING - 2022-2023

CLASS: I, II.III B.Sc (CS) SEMESTER: ODD VENUE: PLACEMENT LAB

DATE: 21.10.22 TIME: 1.40 PM MEETING NO: 2

NAME OF THE CHAIR PERSON: Mrs. A.SUGANTHI, Mr. A.SHAKESPEARE, Mr. R.SENTHILKUMAR

S. NO	CLASS	NAME OF THE REPRESENTATIVE	REPRESENTATIVE SIGN
1		GOWTHAM.P	gon
2	$I D C_{\alpha}(CC)$	HARIHARAN.E	ÛĒ.
3	I B.Sc (CS)	KISHORE.C	GIL
4		PRIYANKA.V	V.Priya
5		BALAJI.T	TRU
6	U D C (CC)	GOWTHAM.S	Com
7	II B.Sc (CS)	SELVI.S	5. 2.
8		VANMATHI.B	B. Volt.
9		G.KAVIRAJAN	G-GKP1
10	III B.Sc (CS)	K.S.ABISHEK	K.S-Akinha
11		M.ABINAYASRI	Mah
12		V.ATCHAYA	VAZ

The following points were discussed in the meeting

- 1. Keeping track of late comers and reporting to the Class in charge all cases of indiscipline
- University Exam Result Were Discussed And Students Were Asked To Improve Their Performance
- Students were instructed to be punctual for their classes and to maintain the proper dress code.
- 4. Students were instructed to be attentive in the classroom and lab classes.
- Students were advised to make their skills. Students were advised to maintain good internal marks.
- 6. Identifying the slow learners, if any and informing the staffs concerned to conduct coaching class to such students.
- Decision was taken that the students those who are having less than 65% attendance are not allowed for writing their end semester examination





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7. Syllabus completion.

S.NO	CLASS	NAME OF THE SUBJECT	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1		Tamil - I	FULLY COMPLETED	GIVEN	
2		English – I	FULLY COMPLETED	GIVEN	
3	I B.Sc	Problem Solving Through C	FULLY COMPLETED	GIVEN	
4	(CS)	Algebra and Calculas	FULLY COMPLETED	GIVEN	
5	1	Value Education	FULLY COMPLETED	GIVEN	
6		Profssional English For Physical Science	FULLY COMPLETED	GIVEN	
7		Tamil-III	FULLY COMPLETED	GIVEN	
8		English-III	FULLY COMPLETED	GIVEN	
9	II B.Sc (CS)	Relational Database Management Systems	FULLY COMPLETED	GIVEN	
10		Computer Network	FULLY COMPLETED	GIVEN	
11	-	Allied-II Applied Electronics-I	FULLY COMPLETED	GIVEN	
12		NMEC-I Business Management	FULLY COMPLETED	GIVEN	
13	-	GUI Programming	FULLY COMPLETED	GIVEN	
14	III B.Sc	Operating Systems	FULLY COMPLETED	GIVEN	
15	(CS)	Computer Networks	FULLY COMPLETED	GIVEN	
16	-	SBEC-IV Multi Skill Development	FULLY COMPLETED	GIVEN	

ANY OTHER SUGGESTION:

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DEPRTMENT OF COMPUTER SCIENCE CLASS COMMITTEE MEETING – 2022-2023

CLASS: 1, 11.111 BCA SEMESTER: ODD VENUE: PLACEMENT LAB DATE: 20.07.22 TIME: 1.40 PM MEETING NO: 1

NAME OF THE CHAIR PERSON: Mr G.SENTHILKUMAR, Mr.M.CHINNUSAMY, Mr. BALACHANDAR

S. NO	CLASS	NAME OF THE REPRESENTATIVE	REPRESENTATIVE SIGN
1	1 BCA	K.POOVARASAN	Korom
2		K.THAMILARASI	Het 1
3		RAGINL.R	RRAY
4		NANDHITHA .R	Revardiction
5		G.BHUVANESHWARI	Bhuvanest
6	U DCA	N.DEVI	N Den
7	11 BCA	C.RAMYA	C. Rampa
8		M.RANJITH	M. Ravith
9		M.ABIRAJ	M Abiray
10	III BCA	S.MANOJ	S. Manej
11		B.SASIKUMAR	B. Sasikumar
12		G.DHARANI	1 a. Rhy

The following points were discussed in the meeting

- University Exam Result Were Discussed And Students Were Asked To Improve Their Performance
- Students were instructed to be punctual for their classes and to maintain the proper dress code.
- 3. Students were instructed to be attentive in the classroom and lab classes.
- Students were advised to make their skills. Students were advised to maintain good internal marks.
- Identifying the slow learners, if any and informing the staffs concerned to conduct coaching class to such students.
- 6. Instructed to attend the internal and university examination without fail.
- 7. It was decided to arrange one day industrial visit for the benefit of the students





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7. Syllabus completion.

S.NO	CLASS	NAME OF THE SUBJECT	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1		Tamil - I	1-UNIT	GIVEN	
2		English – I	1-UNIT	GIVEN	
3		Problem Solving Through C	1-UNIT	GIVEN	
4	I BCA	Algebra and Calculus	1-UNIT	GIVEN	
5	1	Value Education	1-UNIT	GIVEN	
6		Professional English For Physical Science	1-UNIT	GIVEN	
7		Operating System	1-UNIT	GIVEN	
8		Data Structure and Algorithms	1-UNIT	GIVEN	
9	II BCA	Allied-II Applied Electronics-I	1-UNIT	GIVEN	
11		Relational Database Management Systems	1-UNIT	GIVEN	
12		NMEC	1-UNIT	GIVEN	
13		Java Programming	1-UNIT	GIVEN	
14		Problem solving techniques	1-UNIT	GIVEN	
15	III BCA	Operating Systems	1-UNIT	GIVEN	
16	_	Web Technologies	1-UNIT	GIVEN	
17		SBEC-IV Multi Skill Development	1-UNIT	GIVEN	

ANY OTHER SUGGESTION:

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DEPRTMENT OF COMPUTER SCIENCE CLASS COMMITTEE MEETING – 2022-2023

CLASS: I, II.III BCA SEMESTER: ODD VENUE: PLACEMENT LAB

DATE: 21.10.22 TIME: 1.40 PM MEETING NO: 2

NAME OF THE CHAIR PERSON: Mr G.SENTHILKUMAR, Mr.M.CHINNUSAMY, Mr. BALACHANDAR

S. NO	CLASS	NAME OF THE REPRESENTATIVE	REPRESENTATIVE SIGN
1		POOVARASAN K	Sha
2		THAMILARASI .K	KAL
3	I BCA	RAGINI.R	R. Roof
4		NANDHITHA .R	R. Nondhitha
5		G.BHUVANESHWARI	Bhuvanesh
6	II BCA	N.DEVI	N. Devi
7	II DCA	C.RAMYA	C. Romen
8		M.RANJITH	M. Rayith
9		M.ABIRAJ	M.Abiray
10	III BCA	S.MANOJ	S. Mano, L.
11		B.SASIKUMAR	3 sasilyumar
12		G.DHARANI	G. Dai

The following points were discussed in the meeting

- 1. Keeping track of late comers and reporting to the Class in charge all cases of indiscipline
- University Exam Result Were Discussed And Students Were Asked To Improve Their Performance
- 3. Students were instructed to be punctual for their classes and to maintain the proper dress code.
- 4. Students were instructed to be attentive in the classroom and lab classes.
- 5. Students were advised to make their skills. Students were advised to maintain good internal marks.
- 6. Identifying the slow learners, if any and informing the staffs concerned to conduct coaching class to such students.
- 7. Decision was taken that the students those who are having less than 65% attendance are not allowed for writing their end semester examination

ATTESTED PRINCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENLUDE 637 205.



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7. Syllabus completion.

S.NO	CLASS	NAME OF THE SUBJECT	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1		Tamil - I	FULLY COMPLETED	GIVEN	
2		English – I	FULLY COMPLETED	GIVEN	
3		Problem Solving Through C	FULLY COMPLETED	GIVEN	
4	I BCA	Algebra and Calculus	FULLY COMPLETED	GIVEN	
5		Value Education	FULLY COMPLETED	GIVEN	
6		Professional English For Physical Science	FULLY COMPLETED	GIVEN	
7		Operating System	FULLY COMPLETED	GIVEN	
8		Data Structure and Algorithms	FULLY COMPLETED	GIVEN	
9	II BCA	Allied-II Applied Electronics-I	FULLY COMPLETED	GIVEN	
11	-	Relational Database Management Systems	FULLY COMPLETED	GIVEN	
12	-	NMEC	FULLY COMPLETED	GIVEN	
13		Java Programming	FULLY COMPLETED	GIVEN	
14	III BCA	Problem solving techniques	FULLY COMPLETED	GIVEN	
15			FULLY COMPLETED	GIVEN	
16		Web Technologies	FULLY COMPLETED	GIVEN	
17		SBEC-IV Multi Skill Development GGESTION:	FULLY COMPLETED	GIVEN	

ANY OTHER SUGGESTION:

21/10/22

ATTESTED FRENCIPAL SENGUNTHAR APIS AND SCIENCE COLLEGE TIRUCHENLOUL 63. 205.

PRINCIPAL

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Since 1991

DEPRTMENT OF COMPUTER SCIENCE CLASS COMMITTEE MEETING – 2022-2023

CLASS: I, II.III B.Sc. (CS) SEMESTER: EVEN VENUE: PLACEMENT LAB DATE: 18.01.23 TIME: 1.40 PM MEETING NO: 3

NAME OF THE CHAIR PERSON: Mrs. A.SUGANTHI, Mr. A.SHAKESPEARE, Mr. R.SENTHILKUMAR

S. NO	CLASS	NAME OF THE REPRESENTATIVE	REPRESENTATIVE SIGN
1		GOWTHAM.P	yor
2		HARIHARAN.E	OE. Hari Haran
3	1 B.Sc (CS)	KISHORE.C	C
4		PRIYANKA.V	V. Priya
5		BALAJI.T	98
6		GOWTHAM.S	Gui
7	II B.Sc (CS)	SELVI.S	p Sj
8		VANMATHI.B	B. Varf.
		G.KAVIRAJAN	Olpsent
9		K.S.ABISHEK	K.S Abril
10	III B.Sc (CS)	M.ABINAYASRI	absent
11		V.ATCHAYA	Y. ATT

The following points were discussed in the meeting

- 1. Students were instructed to be punctual for their classes and to maintain the proper dress code.
- 2. Instructed to attend the internal and university examination without fail.
- 3. Students were instructed to be attentive in the classroom and lab classes.
- 4. Students were advised to make their skills. Students were advised to maintain good internal marks.
- 5. Identifying the slow learners, if any and informing the staffs concerned to conduct coaching class to such students.
- 6. University Exam Result Were Discussed And Students Were Asked To Improve Their Performance
- 7. it was decided to arrange one day industrial visit for the benefit of the students





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SENGUNTHAR ARTS AND SCIENCE COLLEGE

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7. Schubus completions

8.80	CLASS	NAME OF THE	SVLLABUS COMPLETION REPORT	NOTES	REMARKS
ł	1420	Numit - W	VINIT I	GIVEN	
2		thatish II	UNITI	GIVEN	
3		Data Structure and Algorithms	UNIT I	GIVEN	
ł		Computer Occasionion and Anthinecture	UNITI	GIVEN	
8	b	EVS	UNITI	GIVEN	
6		Provinsit Provint	UNITI	GIVEN	
7	C 100000000 100000000	For Physical Neisbor Tunnik-Jili	UNIT I	GIVEN	
8	11 B.Sc (CS)	thestish-111	UNITI	GIVEN	
8		Relational Database Management Systems	UNIT I	GIVEN	
10		Computer Network	UNITA	GIVEN	
11		Alliest-II Appliest Electronics-1	UNITI	GIVEN	
12		NMECA Business Management	UNITI	GIVEN	
13	III B.Se (CS)	Java Programming	UNIT I	GIVEN	
14		Software Engineering	UNITI	GIVEN	ne una constante de la constant
15		PHP Scripting	UNIT I	GIVEN	
16		Language data mining and warehousing	UNIT I	GIVEN	

ANY OTHER SUGGESTION:

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ATTESTED 6 PRINCIPAL SENGUNTHAR AND SCIENCE COLLEGE TIRUCHER-ODE 637 205.

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DEPRTMENT OF COMPUTER SCIENCE CLASS COMMITTEE MEETING – 2022-2023

CLASS: I, II.III B.Sc (CS) SEMESTER: EVEN VENUE: PLACEMENT LAB

DATE: 30.03.23 TIME: 1.40 PM MEETING NO: 4

NAME OF THE CHAIR PERSON: Mrs. A.SUGANTHI, Mr. A.SHAKESPEARE, Mr. R.SENTHILKUMAR

S. NO	CLASS	NAME OF THE REPRESENTATIVE	REPRESENTATIVE SIGN
1		GOWTHAM.P	goth
2		HARIHARAN.E	E. Honilloran
3	1 B.Sc (CS)	KISHORE.C	CIS
4		PRIYANKA.V	V.Prita
5		BALAJI.T	9.87
6	H D G (CO)	GOWTHAM.S	C.0
7	II B.Sc (CS)	SELVI.S	P.St
8		VANMATHI.B	B. Vor
9		G.KAVIRAJAN	absort
10	III B.Sc (CS)	K.S.ABISHEK	K.S. Ahmh
10		M.ABINAYASRI	absent
12		V.ATCHAYA	V.Atz

The following points were discussed in the meeting

- 1. Students were instructed to be punctual for their classes and to maintain the proper dress code.
- Students were instructed to be attentive in the classroom and lab classes.
- 3. Students were advised to make their skills. Students were advised to maintain good internal marks.
- Identifying the slow learners, if any and informing the staffs concerned to conduct coaching class to such students.
- 5. Instructed to attend the internal and university examination without fail.
- 6. it was decided to arrange one day industrial visit for the benefit of the students
- Decision was taken that the students those who are having less than 65% attendance are not allowed for writing their end semester examination
- 8. HOD instructed the students to focus for their placements

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7. Syllabus completion.

CLASS	NAME OF THE SUBJECT	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
	Tamil - II	FULLY COMPLETED	GIVEN	
1 B.Sc (CS)	English – II	FULLY COMPLETED	GIVEN	
	Data Structure and Algorithms	FULLY COMPLETED	GIVEN	
	Computer Organization and Architecture	FULLY COMPLETED	GIVEN	
	EVS	FULLY COMPLETED	GIVEN	
	Profissional English	FULLY COMPLETED	GIVEN	
II B.Sc (CS)	Tamil-III	FULLY COMPLETED	GIVEN	
	English-III	FULLY COMPLETED	GIVEN	
	Relational Database Management	FULLY COMPLETED	GIVEN	
		FULLY COMPLETED	GIVEN	
	Allied-II Applied	FULLY COMPLETED	GIVEN	
	NMEC-I Business	FULLY COMPLETED	GIVEN	
III B.Sc (CS)		FULLY COMPLETED	GIVEN	
		FULLY COMPLETED	GIVEN	
	PHP Scripting	FULLY COMPLETED	GIVEN	
	data mining and	FULLY COMPLETED	GIVEN	
	I B.Sc (CS) II B.Sc (CS) III B.Sc	CLASSSUBJECTTamil - III B.Sc (CS)English - IIData Structure and AlgorithmsData Structure and AlgorithmsComputer Organization and ArchitectureComputer Organization and ArchitectureEVSProfssional English For Physical ScienceII B.Sc (CS)Relational Database Management SystemsII B.Sc (CS)Computer NetworkAllied-II Applied Electronics-IIII B.Sc (CS)NMEC-I Business Management Java ProgrammingIII B.Sc (CS)Software Engineering PHP Scripting Language	CLASSNAME OF THE SUBJECTCOMPLETION REPORTI B.Sc (CS)Tamil - IIFULLY COMPLETEDData Structure and AlgorithmsFULLY COMPLETEDComputer Organization and ArchitectureFULLY COMPLETEDEVSFULLY COMPLETEDProfssional English For Physical ScienceFULLY COMPLETEDII B.Sc (CS)Relational Database Management SystemsFULLY COMPLETEDIII B.Sc (CS)Relational Database Management SystemsFULLY COMPLETEDIII B.Sc (CS)NMEC-I Business Management SystemsFULLY COMPLETEDIII B.Sc (CS)NMEC-I Business Management SystemsFULLY COMPLETEDIII B.Sc (CS)NMEC-I Business Management FULLY COMPLETEDFULLY COMPLETEDIII B.Sc (CS)NMEC-I Business Management FULLY COMPLETEDFULLY COMPLETEDIII B.Sc (CS)Software Engineering PIIP Scripting Language data mining andFULLY COMPLETED	CLASSNAME OF THE SUBJECTCOMPLETION REPORTNOTESSUBJECTCOMPLETEDGIVENFamil - IIFULLY COMPLETEDGIVENEnglish - IIFULLY COMPLETEDGIVENData Structure and AlgorithmsFULLY COMPLETEDGIVENComputer Organization and ArchitectureFULLY COMPLETEDGIVENEVSFULLY COMPLETEDGIVENProfssional English For Physical ScienceFULLY COMPLETEDGIVENII B.Sc (CS)Relational Database Management SystemsFULLY COMPLETEDGIVENIII B.Sc (CS)Relational Database Management SystemsFULLY COMPLETEDGIVENIII B.Sc (CS)NMEC-I Business Management Software EngineeringFULLY COMPLETEDGIVENIII B.Sc (CS)Software Engineering PULLY COMPLETEDGIVENGIVENIII B.Sc (CS)NMEC-I Business Management SystemsFULLY COMPLETEDGIVENIII B.Sc (CS)Software Engineering PULLY COMPLETEDGIVENGIVEN

ANY OTHER SUGGESTION:

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DEPRTMENT OF COMPUTER SCIENCE CLASS COMMITTEE MEETING – 2022-2023

CLASS: 1, 11.111 BCA SEMESTER: EVEN VENUE: PLACEMENT LAB

DATE: 18.01.23 TIME: 1.40 PM MEETING NO: 3

NAME OF THE CHAIR PERSON: Mr G.SENTHILKUMAR, Mr.M.CHINNUSAMY, Mr. BALACHANDAR

S. NO	CLASS	NAME OF THE REPRESENTATIVE	REPRESENTATIVE SIGN
1		POOVARASAN K	K.Da
2	I DCA	THAMILARASI .K	Kaka
3	1 BCA	RAGINI.R	R. Raby
4		NANDHITHA .R	R. Nandhitha.
5		G.BHUVANESHWARI	Bhuvanez
6	U DCA	N.DEVI	N. Devi
7	II BCA	C.RAMYA	C. Range
8		M.RANJITH	M. Ranjith
9		M.ABIRAJ	M.Abiray
10	III BCA	S.MANOJ	g. Manoi ,
11		B.SASIKUMAR	B Sasikumar
12		G.DHARANI	a. Rhy

The following points were discussed in the meeting

- 1. Students were instructed to be punctual for their classes and to maintain the proper dress code.
- 2. Instructed to attend the internal and university examination without fail.
- 3. Students were instructed to be attentive in the classroom and lab classes.
- 4. Students were advised to make their skills. Students were advised to maintain good internal marks.
- 5. Identifying the slow learners, if any and informing the staffs concerned to conduct coaching class to such students.
- 6. University Exam Result Were Discussed And Students Were Asked To Improve Their Performance
- 7. it was decided to arrange one day industrial visit for the benefit of the students





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Since 1991

7. Syllabus completion.

S.NO	CLASS	NAME OF THE SUBJECT	SYLLABUS COMPLETION REPORT	NOTES	REMARKS
1		Tamil - II	1-UNIT	GIVEN	
2		English – II	1-UNIT	GIVEN	
3		Object Oriented Programming Concepts using C ++	1-UNIT	GIVEN	
4	I BCA	Computer Organization and Architecture	1-UNIT	GIVEN	
5		Environmental Studies	1-UNIT	GIVEN	
6	-	Professional English for physical science	1-UNIT	GIVEN	
7		NMEC-I Business Management	1-UNIT	GIVEN	
8		Software Engineering	1-UNIT	GIVEN	
9	II BCA	Computer Network	1-UNIT	GIVEN	
10	-	Programming in Java	1-UNIT	GIVEN	
11		Allied-II Applied Electronics-I	1-UNIT	GIVEN	
12		GUI Programming	1-UNIT	GIVEN	
13	-	Computer Networks	1-UNIT	GIVEN	
14	- III BCA	Shell Programming	1-UNIT	GIVEN	
15		Data mining and warehousing	1-UNIT	GIVEN	
16		multimedia	1-UNIT	GIVEN	

ANY OTHER SUGGESTION:

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ATTESTED PRINCIPAL SENGUNTHAR APOS AND SCIENCE COLLEGE TIRUCHER-ODE 637 205.

PRINCIPAL

195

certificate of participation

certification enrollment No: IDM182022016

This is certify that

GAYATHRI DEVI P - Assistant Professor

Sengunthar Arts and Science College

has sucessfully completed their one Day HandsOn workshop in

WEB DEVELOPMENT BOOTCAMP

in our concern on 18.12.2022



www.idmtechpark.com

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IPAL SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE - 637 205.



NAVARASAN

ARTS AND SCIENCE COLLEGE FOR WOMEN An Institution affiliated to Bharathiar University

Re-accredited with "B" Grade by NAAC, Recognized by UGC with 2(f) &12(B) Arachalur, Erode - 638 101, Tamil Nadu.

CERTIFICATE OF PARTICIPATION

This is to certify that Dr. / Mr. / Mrs. P. Gayathridevi Assistant Professor

Sengunthar Arts and Science College

has actively participated in Six Days Virtual International Faculty Development Programme (FDP) on "PROMINENT CHALLENGES COMPUTER IN VISION, DATA AND INTELLIGENCE" from 26.12.2022 to 31.12.2022 organized by Department of Computer Science & Applications, Navarasam Arts and Science College for Women, Arachalur, Erode.

Head - Computer Science Mr. G. Balakrishnan

rincipal

Dr. R. Kaniczhil

Organizing Secretary Mr. A. Arun Joseph

ATTESTED

PRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE - 637 205.



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VET Institute of Arts and Science

(Co-education) College (Affillated to Bharathlar University) (Run by Vellalar Educational Trust) Thindal, Erode, Tamil Nadu, India - 638 012.

CERTIFICATE

This is to certify that Dr/Mr/Ms

GAYATHRIDEVI P

ASSISTANT PROFESSOR, PG DEPARTMENT OF COMPUTER SCIENCE, SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE

Presented a paper entitled

ARTIFICIAL REPLY:

THE AUTOMATED REPLY OF BANDITS USING HISTORICAL DATA

In the 2nd International Virtual Conference on

"AI FOR SUSTAINABLE DEVELOPMENT- CHALLENGES AND OPPORTUNITIES" organized by

School of Commerce, VET Institute of Arls and Science (Co-education) College,

Principal

Thindal, Erode, Tamli Nadu, India - 638 012, on 25th November 2022.

neutra Dr.S.Arulraj Convenor

Dr.V.P.Nallaswamy Dean, Academics

Dr.R.Saravanan

Thiru.S.D.Chandrasekar Secretary

www.vetias.ac.in



ATTESTED

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K.S.R COLLEGE OF ARTS AND SCIENCE FOR WOMEN

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This is to certify that Dr/Mr/Ms (yaythri Devi. p, AP/PG Dept of science college Senguntion Arts has Participated / Presented ano a paper entitled "Inculating evolution, Role and analysis of the TOT Propact beneficianes to Soclety in the 6th International Colloquium on "APPLIED MATHEMATICS AND DATASCIENCE" held at K.S.R College of Arts and Science for Women on 09th December 2022.

Mrs. K. Prema Organizing Secretary

Mrs. S. Vijayalakshmi Convener, CS

m- ررست Dr. M. Karthikeyan Principal

ATTESTED

PRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE - 637 205.

VET/

VET Institute of Arts and Science

(Co-education) College (Affiliated to Bharathiar University) (Run by Vellalar Educational Trust) Thindal, Erode, Tamil Nadu, India - 638 012.

CERTIFICATE

This is to certify that Dr/Mr/Ms

GAYATHRI T

ASSISTANT PROFESSOR, PG DEPARTMENT OF COMPUTER SCIENCE, SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHENGODE

Presented a paper entitled

TOWARDS CONTINUAL REINFORCEMENT LEARNING: A REVIEW AND PERSPECTIVES

in the 2nd International Virtual Conference on

"AI FOR SUSTAINABLE DEVELOPMENT- CHALLENGES AND OPPORTUNITIES" organized by

School of Commerce, VET Institute of Arts and Science (Co-education) College,

Thindal, Erode, Tamii Nadu, India – 638 012, on 25th November 2022.



Neulthourf Dr.V.P.Nallaswamy Dean Academics

0

Dr.R.Saravanan Principal

de Thiru.S.D.Chandrasekar

0

hiru.S.D.Chandrasekar Secretary

www.vetias.ac.in

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PRINCIPAL SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE - 637 205.



VIVEKANANDHA

ARTS AND SCIENCE COLLEGE FOR WOMEN

(Alfiliated to Periyar University, Recognized under section 2(I) and 12(B) of UGC Act 1956) Sankagiri, Salem Dt.,

DEPARTMENT OF COMPUTER SCIENCE & COMPUTER APPLICATIONS and DEPARTMENT OF MATHEMATICS

Gertificate



5. 3 Dr. S. LOGANAYAGI Head-Maths

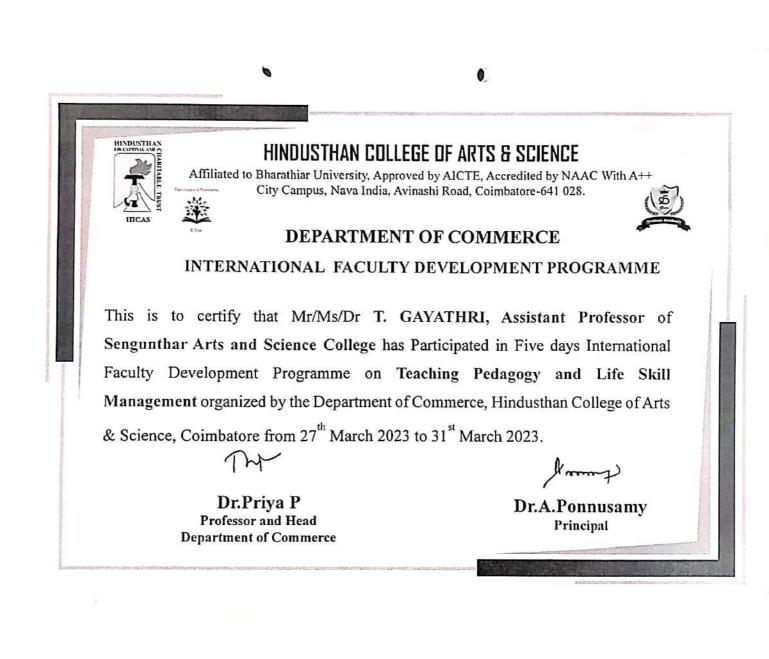
AYAKUMAR Dean-Academic

Dr. B.T. SURESH KUMAR Principal

Prof. Dr. M: KARUNANITHI Chairman & Secretary

ATTESTED

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SENGUNTHAR ARTS AND SCIENCE COLLEGE TIRUCHENGODE + 637 205.

certificate of participation

certification enrollment No: IDM182022016

This is certify that

GAYATHRI DEVI P - Assistant Professor

Sengunthar Arts and Science College

has sucessfully completed their one Day HandsOn workshop in

WEB DEVELOPMENT BOOTCAMP

in our concern on 18.12.2022



www.idmtechpark.com

ATTESTED

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(Affiliated to Periyar University)

PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE MASTER OF COMPUTER APPLICATIONS

CERTICATE OF INTERNSHIP PROGRAMME -21PCAIT1

Nov/Dec-2022

This is to certify that is a bonafide record of internship program done by A.GOKUL Reg.No:C21PG127CAP004, Master of Computer Applications, Sengunthar Arts and science College, Tiruchengode.

Submitted for the University viva-voce examination held on 5.12.22

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ATTESTED FRENCIPAL SENGUNTHAP APPS AND SCHWOP COLLEGE TIPECHERCLORE 657 AVS.



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2011年12月11日11日

Internship Completion Certificate

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This certifies that

A. GOKUL

Department of Master of Computer Application

From Sengunthar Arts and Science College

Tiruchengode

In recognition of his/her hard work &

Dedication in completing the

C#.Net

From 05.08. 2022 To 25.08 2122 At Tiruchengode.

PENTA SOFTWARE No. 107, S.S.D. Road, Ist Floor, State Bank Building, Tiruchengode-637 211. Namakkal Dt.

for im

R.Venkatachalam CEO

FRENCIPAL SENGUNTHAP APPS APP SCHWAT COLLEGS TIRECHERCOUSE 6.57 AVS.

ATTESTED

No 107,S.S.D Road, First floor State Bank Building, Tiruchengode, TamilNadu-637211 Mobile : 9443942108,8248000648, Mail : <u>pentasoftwaretgode@gmail.com</u>, www.pentasoftprojects.com

(Affiliated to Periyar University)

PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE MASTER OF COMPUTER APPLICATIONS

CERTICATE OF INTERNSHIP PROGRAMME -21PCAIT1

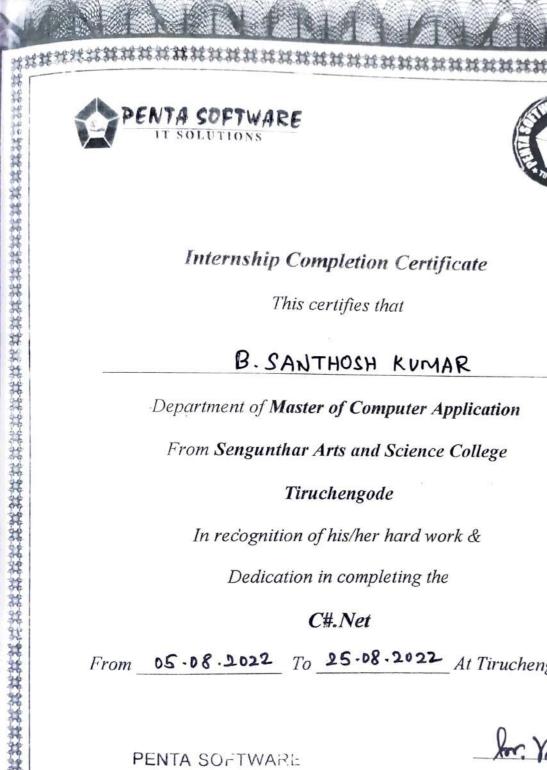
Nov/Dec-2022

This is to certify that is a bonafide record of internship program done by **B.SANTHOSHKUMAR Reg.No:C21PG127CAP010**, Master of Computer Applications, Sengunthar Arts and science College, Tiruchengode.

Submitted for the University viva-voce examination held on...5.222

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ATTESTED FRENCIPAL SENGUNTHAP APPS APP SCHWAT COLLEGE TIRUCHENLOUR 657 JVS





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To 25.08.2022 At Tiruchengode.

PENTA SOFTWARE No. 107, S.S.D. Road, Ist Floor, State Bank Building, Tiruchengode-637 211. Namakkal Dt.

for Yrong

R. Venkatachalam CEO

PRINCIPAL UNTHAP APTY APTY SCI NOT COLLEGE E 03: 105.

ATTESTED

No 107, S.S.D Road, First floor State Bank Building, Tiruchengode, TamilNadu-637211 Mobile : 9443942108,8248000648, Mail : pentasoftwaretgode@gmail.com, www.pentasoftprojects.com

(Affiliated to Periyar University)

PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE MASTER OF COMPUTER APPLICATIONS

CERTICATE OF INTERNSHIP PROGRAMME -21PCAIT1

Nov/Dec-2022

This is to certify that is a bonafide record of internship program done by J.VIGNESH Reg.No:C21PG127CAP013, Master of Computer Applications, Sengunthar Arts and science College, Tiruchengode.

Submitted for the University viva-voce examination held on 5 - 12 - 22

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ATTESTED FRINCIPAL SENGUNTHAP APPY AND SCIENCE COLLEGE TIRECHERCOUR 637 195





11123

34

Internship Completion Certificate

This certifies that

VIGNESH.J

Department of Master of Computer Application

From Sengunthar Arts and Science College

Tiruchengode

In recognition of his/her hard work &

Dedication in completing the

C#.Net

From 05/08/2022 To 05/08/2022 At Tiruchengode.

PENTA SOFTWARE No. 107, S.S.D. Road, Ist Floor, State Bank Building, Tiruchengode-637 211. Namakkal Dt.

for Your

R.Venkatachalam CEO

FRENCIPAL SENGUNTHAP AND COMMON COLLEGE TIRECHERCOME 657 AVS.

ATTESTED

No 107,S.S.D Road, First floor State Bank Building, Tiruchengode, TamilNadu-637211 Mobile : 9443942108,8248000648, Mail : <u>pentasoftwaretgode@gmail.com</u>, www.pentasoftprojects.com

(Affiliated to Periyar University)

PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE MASTER OF COMPUTER APPLICATIONS

CERTICATE OF INTERNSHIP PROGRAMME -21PCAIT1

Nov/Dec-2022

This is to certify that is a bonafide record of internship program done by **K.MAITHEESH Reg.No:C21PG127CAP007,** Master of Computer Applications, Sengunthar Arts and science College, Tiruchengode.

Submitted for the University viva-voce examination held on 5.12.22

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IAL GUIDE

ATTESTED D'MCTPAL SENGUNTHAP APPS AND SCHWAT COLLEGE TIRECHENCORE 657 105







Internship Completion Certificate

This certifies that

K. MAITHEESH

Department of Master of Computer Application

From Sengunthar Arts and Science College

Tiruchengode

In recognition of his/her hard work &

Dedication in completing the

C#.Net

From 05.08.2022 To 25.08.2022 At Tiruchengode.

PENTA SOFTWARE No. 107, S.S.D. Road, Ist Floor, State Bank Building, Tiruchengode-637 211. Namakkal Dt.

ATTESTED FRENCIPAL SENGUNTHAP APPY AND SCIENCE COLLEGE TRECHERQUEE 637 INS

for. Your

R. Venkatachalam CEO

No 107,S.S.D Road, First floor State Bank Building, Tiruchengode, TamilNadu-637211 Mobile : 9443942108,8248000648, Mail : <u>pentasoftwaretgode@gmail.com</u>, www.pentasoftprojects.com

(Affiliated to Periyar University)

PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE MASTER OF COMPUTER APPLICATIONS

CERTICATE OF INTERNSHIP PROGRAMME -21PCAIT1

Nov/Dec-2022

This is to certify that is a bonafide record of internship program done by M.MUTHULAKSHMI Reg.No:C21PG127CAP016, Master of Computer Applications, Sengunthar Arts and science College, Tiruchengode.

Submitted for the University viva-voce examination held on $5 \cdot 12 \cdot 22$

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ATTESTED

FRENCIPAL SENGUNTHAP AND SCHWOP COLLEGE TIRUCHERQUIE 657 4VS.



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Internship Completion Certificate

This certifies that

M. MUTHULAKSHMI

Department of Master of Computer Application

From Sengunthar Arts and Science College

Tiruchengode

In recognition of hts/her hard work &

Dedication in completing the

C#.Net

From 05.08.2.22 To 25.08.2022 At Tinuchengode.

ATTESTED

PEN TA SOFTWARE No. 107, S.S.D. Road, Int Floor State Bank Building, Thuchengode 637 211 Userakkal DI. for Yrong

R. Venkatachalam FRENCIPAL SENGUNTHAR APPS AND SCIENCE COLLEGE TRUCCHERCORE 657 AVS.

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Nov/Dec-2022

This is to certify that is a bonafide record of internship program done by N.DINESH Reg.No:C21PG127CAP003, Master of Computer Applications, Sengunthar Arts and science College, Tiruchengode.

Submitted for the University viva-voce examination held on 5.12.22

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Internship Completion Certificate

Department of Master of Computer Application

From Sengunthar Arts and Science College

In recognition of his/her hard work &

To 25.08. 2022 At Tiruchengode.

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R. Venkatachalam CEO

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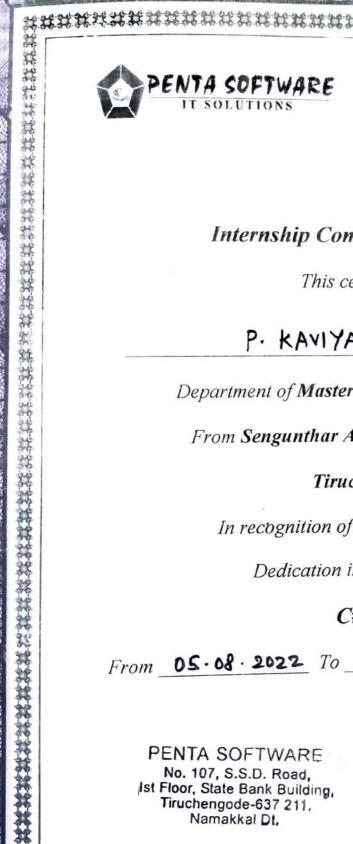
Submitted for the University viva-voce examination held on 5-12-22

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Nov/Dec-2022

This is to certify that is a bonafide record of internship program done by **P.RANJITHKUMAR Reg.No:C21PG127CAP009,** Master of Computer Applications, Sengunthar Arts and science College, Tiruchengode.

Submitted for the University viva-voce examination held on 5.12.22

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This is to certify that is a bonafide record of internship program done by **P.SATHISHKUMAR Reg.No:C21PG127CAP012**, Master of Computer Applications, Sengunthar Arts and science College, Tiruchengode.

Submitted for the University viva-voce examination held on 5:12.22

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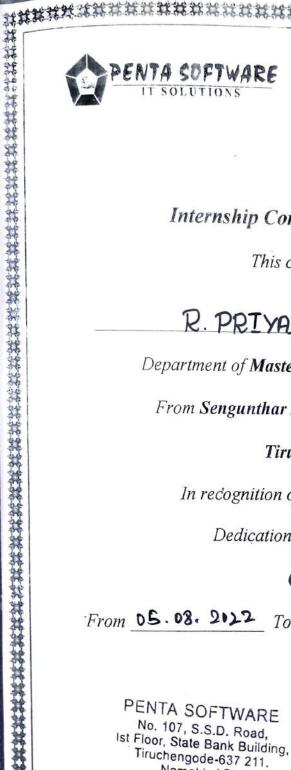
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Submitted for the University viva-voce examination held on 5 - 12 - 22

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Submitted for the University viva-voce examination held on 5.12.22

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Submitted for the University viva-voce examination held on $\frac{1}{2}$

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S.Karthickraja (C21PG127CSC001)

M.Sc (Computer Science) Department of

SENGUNTHAR ARTS & SCIENCE COLLEGE

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R.Bh HEAD OF THE DEPARTMENT

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Submitted for the University viva-voce examination held on 5.12.22

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Submitted for the University viva-voce examination held on $5 \cdot 12 \cdot 22$

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TOPOLOGY CONTROL IN MOBILE AD HOC NETWORKS WITH COOPERATIVE COMMUNICATIONS

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

Periyar University, Salem – 11

BY

U.SARAN

Register Number: C21PG127CAP011

Under the Guidance of

Mrs.R.BHARATHI, M.Sc., M.Phil.,



DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

SENGUNTHAR ARTS AND SCIENCE COLLEGE

(AFFILIATED TO PERIYAR UNIVERSITY)

TIRUCHENGODE - 637 205.

APRIL-2023



SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHNGODE-637205

CETIFICATE

This is to certify that dissertation entitled "TOPOLOGY CONTROL IN MOBILE AD HOC NETWORKS WITH COOPERATIVE COMMUNICATIONS" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by U.SARAN, Register No: C21PG127CAP011 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

Place: Tiruchengode

Date : 04.05.2023

HEAD OF DEPARTMENT

(Mrs.R.BHARATHI, M.Sc., M.Phil.,)

Mrs.R.BHARATHI, M.Sc., M.Phil.,

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Submitted for the project Viva Voce Examination held on

04.05.2023

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F-37,First floor,Murugan Kovil Street,Fairlands, Salem - 636 016

Date: 24.04.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that U.SARAN (Reg. No: C21PG127CAP011) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with us to do his final year project entitled "Topology Control In Mobile Ad Hoc Networks With Cooperative Communications" using Java/MySQL at Cognitive i, Salem from December'2022 to March'2023.

During the period of project work his performance and conduct was found to be good.

We wish him the very best forever.

With Regards,

For Cognitive i

Arunprakasam.T Project Head



ATTESTED FRINCIPAL SENGUNTHAR APP'S AND SCIENCE COLLEGE TIRECHERCOUSE 637 INS.

ABSTRACT

Cooperative communication has received tremendous interest for wireless networks. Most existing works on cooperative communications are focused on link-level physical layer issues. Consequently, the impacts of cooperative communications on network-level upper layer issues, such as topology control, routing and network capacity, are largely ignored. In this article, we propose a Capacity-Optimized Cooperative (COCO) topology control scheme to improve the network capacity in MANETs by jointly considering both upper layer network capacity and physical layer cooperative communications. Through simulations, we show that physical layer cooperative communications have significant impacts on the network capacity, and the proposed topology control scheme can substantially improve the network capacity in MANETs with cooperative communications.

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5. CONCLUSION AND FUTURE ENHANCEMENT

In this project, we have introduced physical layer cooperative communications, topology control, and network capacity in MANETs. To improve the network capacity of MANETs with cooperative communications, we have proposed a Capacity- Optimized Cooperative (COCO) topology control scheme that considers both upper layer network capacity and physical layer relay selection in cooperative communications. Simulation results have shown that physical layer cooperative communications techniques have significant impacts on the network capacity, and the proposed topology control scheme can substantially improve the network capacity in MANETs with cooperative communications. Future work is in progress to consider dynamic traffic patterns in the proposed scheme to further improve the performance of MANETs with cooperative communications.

RIBLIOGRAPHY

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CRIMINAL FACE DETECTION

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

Periyar University, Salem - 11

BY

P.SATHISH KUMAR

Register Number: C21PG127CAP012

Under the Guidance of

Mrs.R.BHARATHI, M.Sc., M.Phil.,



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SENGUNTHAR ARTS AND SCIENCE COLLEGE

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APRIL-2023

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHNGODE-637205

CETIFICATE

This is to certify that project report entitled "CRIMINAL FACE DETECTION" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by P.SATHISH KUMAR, Register No: C21PG127CAP012 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

Place: Tiruchengode

R.Bulhi Signature of the Guide

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Mrs.R.BHARATHI, M.Sc., M.Phil.,

Date : 3.5.23

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(Mrs.R.BHARATHI, M.Sc., M.Phil.,)

Submitted for the project Viva Voce Examination held on

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F-37,First floor,Murugan Kovil Street,Fairlands, Salem - 636 016



Date: 24.04.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that P.SATHISH KUMAR (Reg. No: C21PG127CAP012) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with us to do his final year project entitled "Criminal Face Detection" using Java/MySQL at Cognitive i, Salem from December'2022 to March'2023.

During the period of project work his performance and conduct was found to be good.

We wish him the very best forever.

With Regards,

For Cognitive i,

Arunprakasam.T Project Head



PRINCIPAL SENGUNTHAP APPE APPE SCHEWET COLLEGE TIRUCHERLOUR 637 IVS.

ABSTRACT

Criminal record generally contains personal information about particular person along with photograph. To identify any criminal we need some identification regarding person, which are given by eyewitnesses. In most cases the quality and resolution of the recorded image-segments is poor and hard to identify a face. To overcome this sort of problem we are developing software. Identification can be done in many ways like fingerprint, eyes, DNA etc. One of the applications is face identification. The face is our primary focus of attention in social inter course playing a major role in conveying identity and emotion. Although the ability to infer intelligence or character from facial appearance is suspect, the human ability to recognize faces is remarkable.

The operator first logs into the system by entering username and password. Then depending on the work allotted he has to select the screens from main menu screen. There are mainly three important function which he can do they are adding details, clipping image and finally construction of the face by using the eyewitness. The face that is finally formed is one the who has done the crime.

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5. CONCLUSION AND FUTURE ENHANCEMENT

The purpose of face identification system is to identify criminals. In past years this process is carried out by humans. This process gives the exact image of the criminal but it is very difficult to identify the criminal details and also it requires much amount of human burden. The main aim of our project is to overcome the drawbacks of human based system by using the machine based face identification process. In this process we store the details of criminal into the database along with his photo or image. Then we make the image into different clips containing hair, forehead, eyes, nose, lips and chin and store these clips into the database. When any crime occurs we compare the details given by the eyewitness with the clips already stored in the database and we will identify the criminal. This project can be extended to adjust the gaps between the clips after construction of the image to be a perfect photograph using Image processing Techniques.

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CELL BREATHING TECHNIQUES FOR LOAD BALANCING IN WIRELESS LANS

A Dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

Periyar University, Salem - 11

BY

J.VIGNESH

Register Number: C21PG127CAP013

Under the Guidance of

Mrs.T.GAYATHRI,MCA.,M.Phil.,



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Date : 04-05-2023

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Date: 24.04.2023

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ing the period of project work his performance and conduct was found to be good.

wish him the very best forever.

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ABSTRACT

Maximizing network throughput while providing fairness is one of the key challenges in wireless LANs (WLANs). This goal is typically achieved when the load of access points (APs) is balanced. Recent studies on operational WLANs, however, have shown that AP load is often substantially uneven. To alleviate such imbalance of load, several load balancing schemes have been proposed. These schemes commonly require proprietary software or hardware at the user side for controlling the user-AP association. In this paper we present a new load balancing technique by controlling the size of WLAN cells (i.e., AP's coverage range), which is conceptually similar to cell breathing in cellular networks. The proposed scheme does not require any modification to the users neither the IEEE 802.11 standard. It only requires the ability of dynamically changing the transmission power of the AP beacon messages. We develop a set of polynomial time algorithms that find the optimal beacon power settings which minimize the load of the most congested AP. We also consider the problem of network-wide min-max load balancing. Simulation results show that the performance of the proposed method is comparable with or superior to the best existing association-based methods.

ATTESTED PRINCIPAL. SENGUNTHAP APAY AND SCHWAT COLLEGE TIRECHERLOUIE 637 105.

5. CONCLUSION

We presented a novel scheme for optimal load balancing in IEEE 802.11 WLANs. We provided rigorous analysis of the problem and presented two algorithms that find deterministic optimal solutions. The first algorithm minimizes the load of the congested AP(s) in the network, and the second algorithm produces an optimal min-max (priority) load balanced solution. These optimal solutions are obtained only with the minimal information which is readily available without any special assistance from the users or modification of the standard. We assume only the control on the transmission power of the AP beacon messages. The simulations show that even a small number of power levels, e.g., between 5 and 10, is enough to achieve near optimal results.

FUTURE ENHANCEMENT

This cell breathing mechanism has advantages over other documented schemes for a number of reasons. As already stated, it gives the network the ability to adapt to dynamically changing load conditions in a distributed fashion. Such a property is most desirable, particularly in the case of nomadic users whose mobility pattern is highly variable and causes hotspot movement throughout the network.

Another benefit of this scheme is that the load balancing procedure is transparent to network users. They are completely unaware of the transmit power changes and resulting reassociation procedures with neighbouring access points. While these characteristics are beneficial, the described algorithm does exhibit some weaknesses. The solution presented is a greedy one. Each access point is concerned with its own loading state only; the load at neighbouring access points is not considered before transmit power changes are applied. Therefore, it is possible that the cell breathing procedure could cause a load increase at an access point that is already in a congested state.



DYNAMIC ROUTING WITH SECURITY CONSIDERATIONS

A Dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

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his is to certify that S.VIKRAM (Reg. No: C21PG127CAP014) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with us to do his final year project entitled "Dynamic Routing with Security Considerations" asing Java/MySQL at Cognitive i, Salem from December'2022 to March'2023.

During the period of project work his performance and conduct was found to be good.

ve wish him the very best forever.

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ABSTRACT

Security has become one of the major issues for data communication over wired and wireless networks. To enhance the security of data transmission, existing system works on the cryptography based algorithms such as SSL, IPSec. Although IPSec and SSL accounts for great level of security, they introduce overheads. A mass of control messages exchanging also needed in order to adopt multiple path deliveries from source to destination. Different from the past work on the designs of cryptography algorithms and system infrastructures, we will propose a dynamic routing algorithm that could randomize delivery paths for data transmission. The algorithm is easy to implement and compatible with popular routing protocols, such as the Routing Information Protocol in wired networks and Destination-Sequenced Distance Vector protocol in wireless networks, without introducing extra control messages. An analytic study on the proposed algorithm is presented, and a series of simulation experiments are conducted to verify the analytic results and to show the capability of the proposed algorithm.

The main objective is to propose a dynamic routing algorithm to provide security enhanced data delivery without introducing any extra control messages. The objective of this work is to explore a security enhanced dynamic routing algorithm based on distributed routing information widely supported in existing wired and wireless networks. We aim at the randomization of delivery paths for data transmission to provide considerably small path similarity (i.e., the number of common links between two delivery paths) of two consecutive transmitted packets. The proposed algorithm should be easy to implement and compatible with popular routing protocols, such as the Routing Information Protocol (RIP) for wired networks and Destination- Sequenced Distance Vector (DSDV) protocol for wireless networks, over existing infrastructures. These protocols shall not increase the number of control messages if the proposed algorithm is adopted. An analytic study will be presented for the proposed routing algorithm, and a series of simulation study will be conducted to verify the analytic results and to show the capability of the proposed algorithm.

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5. CONCLUSION AND FUTURE ENHANCEMENT

The main contribution of the project is in proposing a security-enhanced dynamic routing with security based on cryptographic algorithm, such as Blow fish algorithm in the Multi-Organization system. The main proposed of the project a dynamic routing with strong security algorithm, such as Blow fish algorithm, which is provided a fast and strong security from source to destination based on key length of algorithm. The dynamic routing could be used to a randomization of delivery paths from client to sever in the wire and wireless network. It avoids the path similarity and two same packets on the same path among the different paths in the network. This algorithm is a more performance than other algorithms such as DES, 3DES and AES .In this project main objective is provide a fast data encryption and decryption and strong security for data communication in the multiple-organization system. The objective of the project is a taking very less time for data processing to other algorithm and cost also very less to implement any kinds of the large networks ,we may use this algorithm, so The dynamic routing with security for data transmission in the multiple-organizations system.

The proposed algorithm is easy to implement and compatible with popular routing protocols which includes RIP and DSDV in existing infrastructures. An substantial study was developed for the proposed algorithm and was verified against the experimental results. A simulation experiments were Conducted to show the capability of the proposed algorithm and for that we have very encouraging results. Thus we must point out that the pro-posed algorithm is completely orthogonal to the work based on the designs of cryptography algorithms and system infrastructures. Our security enhanced dynamic routing could be used with cryptography-based system designs to further improve the security of the data transmission over networks.

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E-AUTHENTICATION SYSTEM USING QR CODE AND OTP

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

Periyar University, Salem - 11

BY

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(Mrs.R.BHARATHI, M.Sc., M.Phil.,)

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This is to certify that S.DEVIPRIYA (Reg. No: C21PG127CAP015) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with us to do her final year project entitled "E-Authentication System using QR Code and OTP" using Java/MySQL at Cognitive i, Salem from December'2022 to March'2023.

During the period of project work her performance and conduct was found to be good.

Ne wish her the very best forever.

With Regards,

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runprakasam.T Project Head



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ABSTRACT

In this project we develop E-Authentication System using QR code and OTP for the Students Attendance System. The use of QR code-based technologies and applications has become prevalent in recent years where QR codes are accepted to be a practical and intriguing data representation / processing mechanism amongst worldwide users. The aim of this study is to esign and implement an alternative two-factor identity authentication system by using QR codes ind to make the relevant mechanism and process that could be more user-friendly and practical han one-time password mechanisms used with similar purposes today. The proposed model in his project has been designed in order to enable the verification and validation steps with several ecurity and networking options during the logon process. The model has been implemented by leveloping a two-factor identity verification system where the second factor is the user's email D which can be accessed from PC or Mobile device and a pseudo-randomly generated lphanumerical QR code which is used as the one-time password token sent to the user via enail. The proposed model has been developed using Java & MYSQL languages with ymmetrical and asymmetrical cryptography standards for database encryption / hashing and etwork infrastructure and it has been tested as a prototype where promising results are observed egarding the efficiency, speed and security requirements.

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5. CONCLUSION AND FUTURE ENHANCEMENT

This project concludes that there are so many possibilities for QR Code"s use in different areas for authentication and to provide security and lot more are yet to be explored. In many countries, QR codes are used in most of the commercial market items. Essentially, QR codes are a convenient way to add the virtual to the physical to provide useful content, often at the time of need. QR codes are a low threshold technology, easy to use and implement and it's cheap. QR Code has various applications in numerous fields. Student Attendance system which involves high security transactions are made even more highly protected using QR codes .OTP distribution is made accessible by authenticated users with the help of QRcodes.

Future Enhancement:

As a Future Enhancement, this project can be developed using Android Application so the generation of the QR code and storing process is reduced and also receiving the OTP can be made directly to the Android App instead of the email so the application is more easily simplified to the users.

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ATTRIBUTE BASED ENCRYPTION WITH PRIVACY PROTECTION AND ACCOUNTABILITY FOR CLOUD IOT

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

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BY

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During the period of project work her performance and conduct was found to be good.

We wish her the very best forever.

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Project Head



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ABSTRACT

In CloudIoT platform, the data is collected and shared by IoT-enabled devices and further processed and stored on the cloud. Although CloudIoT has obvious advantages, it is important to protect the confidentiality and privacy of the data by encrypting it before uploading to the cloud. One of the major challenges in CloudIoT is to authenticate IoT devices and prevent illegal users from accessing the platform. In this regard, the study proposes an access control system model for CloudIoT platform, based on attribute-based encryption (ABE) technique. This project proposes a novel Attribute Based Encryption (ABE) scheme with privacy protection and accountability for CloudIoT environments. The scheme aims to provide secure data sharing and access control in a dynamic and resource-constrained cloud environment, where a large number of Internet of Things (IoT) devices generate sensitive data.

The proposed scheme utilizes a privacy-preserving authentication mechanism and a multi-authority ABE scheme to achieve secure data sharing and accountability. The model involves five entities, namely, data owner, data user, attribute authority, cloud server, and auditor. The attribute authority generates system parameters and issues access credentials to data owner and data user. The data owner encrypts messages using relevant access structures and outsources the ciphertext to the cloud server. Each ciphertext is related to an access structure, and the private key of the data user is related to an attribute set. The authorized data user can decrypt the outsourced data if his/her attribute set satisfies the access structure. In case of doubts by the data owner regarding leaked access credentials, an auditor is required to take charge of audit and returns the trace and audit results to data owner and data user. The proposed system provides a secure and efficient access control mechanism for CloudIoT with accountability and privacy protection. Overall, the proposed scheme offers a practical solution to secure data sharing in the CloudIoT environment and can have significant implications for various real-world applications.



5. CONCLUSION AND FUTURE ENHANCEMENT

In conclusion, the proposed access control system model based on Attribute-Based Encryption (ABE) for CloudIoT platform with privacy protection and accountability provides a promising solution to address the security and privacy challenges in CloudIoT. By leveraging ABE, the system achieves secure data transmission, storage, and sharing, while preserving the confidentiality and privacy of the data. The model includes five entities, namely data owner, data user, attribute authority, cloud server, and auditor, which work together to ensure the integrity and traceability of the system. Compared to earlier systems, the proposed system offers several advantages, including efficient and secure access control, privacy-preserving authentication, and accountability for potential abuse or leakage of access credentials. However, the system may have some limitations or trade-offs, such as the overhead of audit and traceability, the complexity of the system, or the suitability for certain types of data and access patterns.

Overall, the proposed system presents a significant contribution to the field of CloudIoT security and can be a valuable reference for future research and development in this area. The system can help ensure the confidentiality, integrity, and availability of sensitive data in CloudIoT and promote the adoption and growth of this promising technology.

Future Enhancement:

There are several possible future enhancements for the proposed access control system model based on Attribute-Based Encryption (ABE) for CloudIoT platform with privacy protection and accountability. Some of them are:

- Performance optimization: The proposed system may have certain overheads due to the use of ABE and audit and traceability mechanisms. Future research can focus on optimizing the performance of the system by exploring new techniques, algorithms, and architectures that can reduce the computation and communication costs.
- Integration with blockchain: Blockchain technology can provide a decentralized and tamper-proof mechanism for audit and traceability, which can enhance the accountability and transparency of the system. Future research can investigate the integration of ABE-



ONLINE BUG TRACKING SYSTEM

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

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to the

Periyar University, Salem - 11

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Date : 04/05/2023

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Date: 24.04.2023

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During the period of project work her performance and conduct was found to be good.

We wish her the very best forever.

With Regards,

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Arunprakasam.T Project Head



ATTESTED PRINCIPAL SENGUNTHAP APAY AND SCHENCE COLLEGE TIRUCHERCOUR 657 rus.

Abstract

Nowadays, when project are so extensive, defects or bugs have been existed as a problem in the system and they are normally inevitable in software development. A bug could be in either a program's source code or its design. Huge amount of bugs could be found in system development. It is relatively difficult to manage bugs in simple word documents or remember everything in one's head. Because of that, it becomes very important to have appropriate bug tracking tool. Bug tracking tool makes communication between teams more effective and all the bugs and changes are recorded in web based system and hence the system is scalable. The purpose of this paper is to study different bug tracking tools, and purpose new set of selection criteria that gives more satisfying solution, as the industry needs criteria to select the best tool among the available set of tools that will help in fixing and tracking the progress of bug fixes.

Online Bug Tracking System on the Web is a web-based code bug tracking system which runs on the web portal. It is a open source package which is written in the PHP scripting language and it works with the pre-requisites MySQL Database, Microsoft SQL Database and PostgreSQL databases and the webserver. It can be installed on the different operating system such as Windows and Linux. Almost all the web browsers will be able to work as a client for tracking system. The Bug Tracking system generates the quick links to the auto generated individual searches such as like open issues, various Milestone to dolist, Most nonvoted issues and the Project wish list for all the different projects in a tracking system. These all the quick searches can also be easily accessed from the different Issues in the system and whenever users or developers in the project space of the bug tracking system. It is the intelligent search that lets you to specify the number of every code debugged in seconds for finding the most recent issues in real-time. The bug tracking system can easily debug the project codes in online user interface on the web. It is open source and easier for developers to work on it.

ATTESTED PRINCIPAL SENGUNTHAP APP'S APP SCHEWET COLLEGE TIRUCHENLOUIR 637 INS.

5. CONCLUSION AND FUTURE ENHANCEMENT

Existing bug tracking systems do not effectively accumulate all of the information needed by developers. Without this information developers cannot resolve bugs in a timely fashion and so we believe that improvements to the way issue tracking systems collect information are needed. We summarized criteria that are used in modem bug tracking systems. Such criteria often doesn''t give appropriate results in describing bug. So, we proposed an improved set of criteria that will give much more satisfying solution for the current system. This work can be important to the designers of the future bug and defect tracking systems. They should know importance of selection criteria for describing bug, because a well described bug will be easier to be trace and solved.

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A survey on block chain technology evolution architecture and security

A project report submitted in partial fulfillment of the requirements for the award of the degree of

MASTEROFCOMPUTERSCIENCE

to the

PeriyarUniversity,Salem-11

By

KARTHICKRAJA.S

Reg.No: C21PG127CSC001

Under the Guidance of Mrs.T.GAYATHRIM.C.A.,M.Phil.,



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This is to certify that the project report entitled "A survey on blockchain technology evolution architecture and security" submitted inpartial fulfillment of the requirement for the degree of Master of computer science to the periyar university, Salem is a record of bonafide work carried out by KARTHICKRAJAS. Register No: C21PG127CSC001 under supervision and guidance and that no part of the report has been submitted for the award of any degree or diploma.

Place:Tiruchengode Date : 04.05.2023

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(Mrs.R.BHARATHI, M.Sc., M.Phil.,)

Submitted for the Viva-voce Examination held on 04/05

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External Examiner

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FRENCIPAL SENGUNTHAP APPS AND SCHWAT COLLEGE TIRUCHERQUIE 657 405

A SURVEY ON BLOCKCHAIN TECHNOLOGY EVOLUTION ARCHITECTURE AND SECURITY

ABSTRACT

Blockchain is an emerging digital technology allowing ubiquitous financial ransactions among distributed untrusted parties, without the need of intermediaries such as banks. This article examines the impact of blockchain technology in agriculture and food supply chain, presents existing ongoing projects and initiatives, and discusses overall implications, challenges and potential, with a critical view over the maturity of these projects.

Our findings indicate that blockchain is a promising technology towards a transparent supply chain of food, with many ongoing initiatives in various food products and food-related issues, but many barriers and challenges still exist, which hinder its wider popularity among farmers and systems. These challenges involve technical aspects, education, policies and regulatory frameworks.

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CONCLUSION

Summing up, blockchain is a promising technology towards a transparent supply chain of food, but many barriers and challenges still exist, which hinder its wider popularity among farmers and food supply systems. The near future will show if and how these challenges could be addressed by governmental and private efforts, in order to establish blockchain technology as a secure, reliable and transparent way to ensure food safety and integrity. It is very interest to see how blockchain will be combined with other emerging technologies towards higher automation of the food supply processes, enhanced with full transparency and traceability. As a result the bitcoin sha – 256 algorithm proves it is faster , accurate and less likely traceable when compared with the previous algorithm

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PRINCIPAL. SENGUNTHAP APAY AND SCHEWEP COLLEGE

TIRECHERCOUR 637 INS.

CONGESTION FREE SMART DEVICE BYCACHING INFORMATION IN MANET AND IOT

A Project report submitted in partial fulfillment of the requirement

for the award of the degree of

MASTER OF COMPUTER SCIENCE

to the

Periyar University, Salem-11

Ву

S.GEETHASHRI

REG.No: C21PG127CSC004

Under the guidance of

P.GAYATHRIDEVI M.Sc., M.Phil., M.A.YOGA



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TIRUCHENCODE -637205

CERTIFICATE

This is to certify that the project report entitled "Congestion Free Smart Device By Caching Information In Manet And Iot" submitted in partial fulfillment of the requirement for the award of the degree of Master of Computer Applications to the Periyar university, Salem is a record of bonafide work carried out by S.Geethashri, Register No : C21PG127CSC004 under Supervision and guidance and that no part of the report has been submitted for the award for any degree or diploma.

Place: Tiruchengode

Date: 4.5.2023

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(P.GAYATHRIDEVI, M.Sc., M.Phil., M.A yoga)

HEAD OF THE DEPARTMENT (Mrs.R.BHARATHI M.Sc.,M.Phil.,)

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Date: 24.04.2023

TO WHOMSOEVER IT MAY CONCERN

his is to certify that S.GEETHASHRI (Reg. No: C21PG127CSC004) student of M.Sc., (Computer cience), Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with s to do her final year project entitled "Congestion free smart devices by catching information n MANET and IoT" using JAVA at Cognitive i, Salem from December'2022 to March'2023.

)uring the period of project work her performance and conduct was found to be good.

Ve wish her the very best forever.

Nith Regards,

or Cognitive Arunprakasam.

Project Head



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ABSTRACT

Mobile ad-hoc networks (MANETs) comprise a large number of mobile wireless nodes that can move in a random fashion with the capability to join or leave the network anytime. Due to the rapid growth of devices on the Internet of Things (IoT), a large number of messages are transmitted during information exchange in dense areas. It can cause congestion that result in increasing transmission delay and packet loss. This problem is more severe in larger networks with more network traffic and high mobility that enforces dynamic topology. To resolve these issues, we present a bandwidth aware routing scheme (BARS) that can avoid congestion by monitoring residual bandwidth capacity in network paths and available space in queues to cache the information. The amount of available and consumed bandwidth along with residual cache must be worked out before transmitting messages. The BARS utilizes the feedback mechanism to intimate the traffic source for adjusting the data rate according to the availability of bandwidth and queue in the routing path.

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5. CONCLUSION AND FUTURE ENHANCEMENT

5.1 CONCLUSION

The proposed scheme presents the bandwidth aware routing where the current network status is evaluated in terms of residual bandwidth and residual size of interface queue to cache the information. Packet from source to destination node can suffer from mutual interference between packets in the same flow that can cause congestion. To manage the congestion, Hello messages are used to predict residual bandwidth on a link by taking average of most recent values of residual bandwidth and cached entries in queues at intermediaries by checking queue sizes. Next, the estimation of consumed bandwidth involves the maximum amount of bandwidth that each node can support. On the basis of residual bandwidth, the source node transmits data packets accordingly and manages re-establishment of broken links by adopting capabilities of caching, computation and communication. The algorithm detects route break during neighbor discovery when Hello message is not received at neighbor node. To check the impact of proposed BARS, a number of simulations have been carried out to check its performance using NS 2.35. C language has been used to implement functionality for bandwidth estimation, rate control and queue management. Perl scripts are used to get results from a number of trace files obtained for existing and proposed schemes. Results show that the proposed BARS scheme outperforms counterparts in terms of packet delivery ratio, end-to-end delay, packet loss and throughput and probability for existence of congested node for static and dynamic scenarios. In future, we shall include quality of service factors like energy aware route selection in combination with bandwidth estimation.

5.2 FUTURE ENHANCEMENT

We will compare the extra power that CPU consumes for computing fingerprints with the power that the storage saves, thus systematically investigating the energy efficiency of POD.

ATTESTED POTICIPAL. SENGUNTHAP APTY APPY SCHENCE COLLEGE TIRECHERCLOUR 637 105.

MULTI-CLOUD SYSTEM TO AVOID SERVER FAILURES

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

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This is to certify that dissertation entitled "MULTI-CLOUD SYSTEM TO **VOID SERVER FAILURES"** submitted in partial fulfillment of the requirement for he degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, alem is a of bonafide work carried out by S.AJAY, Register No: C21PG127CAP001 inder supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

re of the

Place: Tiruchengode Date : 04.05.2023

Mrs.P.GAYATHRIDEVI, M.Sc (IT)., M.Phil., M.A.,

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External Examiner-





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TO WHOMSOEVER IT MAY CONCERN

his is to certify that S.AJAY (Reg. No: C21PG127CAP001) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed vith us to do his final year project entitled "Multi-Cloud System to avoid Server Failures" using ava/MySQL at Cognitive i, Salem from December'2022 to March'2023.

During the period of project work his performance and conduct was found to be good.

Ne wish him the very best forever.

Nith Regards,

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Arunprakasam.T Project Head



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ABSTRACT

The use of cloud computing has increased rapidly in many organizations. Cloud computing provides many benefits in terms of low cost and accessibility of lata. Ensuring the security of cloud computing is a major factor in the cloud computing environment, as users often store sensitive information with cloud storage providers but these providers may be untrusted. Dealing with "single cloud" providers is predicted to become less popular with customers due to risks of service availability failure and the possibility of malicious insiders in the single cloud. A movement towards "multi-clouds", or in other words, "interclouds" or "cloud-of-clouds" has emerged recently. This paper surveys recent research related to single and multi-cloud security and addresses possible solutions. It is found that the research into the use of multi-cloud providers to maintain security has received less attention from the research community than has the use of single clouds. This work aims to promote the use of multi-clouds due to its ability to reduce security risks that affect the cloud computing user.

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5. CONCLUSION AND FUTURE ENHANCEMENT

It is clear that although the use of cloud computing has rapidly increased, cloud computing security is still considered the major issue in the cloud computing environment. Customers do not want to lose their private information as a result of malicious insiders in the cloud. In addition, the loss of service availability has caused many problems for a large number of customers recently. Furthermore, data intrusion leads to many problems for the users of cloud computing. The purpose of this work is to survey the recent research on single clouds and multiclouds to address the security risks and solutions. We have found that much research has been done to ensure the security of the single cloud and cloud storage whereas multi-clouds have received less attention in the area of security. We support the migration to multi-clouds due to its ability to decrease security risks that affect the cloud computing user.

ATTESTED

PRINCIPAL SENGUNTHAP APAT ANT SCHWAT COLLEGE TIRECHERCOUR 637 105.

LOCATION-BASED SPATIAL QUERY PROCESSING IN WIRELESS BROADCAST ENVIRONMENTS

A Project dissertation in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

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This is to certify that project dissertation entitled "LOCATION-BASED BROADCAST PROCESSING IN WIRELESS SPATIAL OUERY ENVIRONMENTS" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by N.DINESH, Register No: C21PG127CAP003 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

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Submitted for the project Viva Voce Examination held on 04.05.2023

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During the period of project work his performance and conduct was found to be good.

We wish him the very best forever.

With Regards,

For Cognitive Arunprakasam.T

Project Head



ATTESTED PRINCIPAL. SENGUNTHAP APAK AND SCHEWEP COLLEGE TIRUCHERCOUR 637 rus.

ABSTRACT

The wireless data broadcast model has good scalability for supporting an almost unlimited number of clients. Its main limitation lies in its sequential data access; the access latency becomes longer as the number of data items increases. If we can provide (approximate) answers to spatial queries before the arrival of the related data packets, it will overcome the limitation of the broadcast model. A novel component in our methodology is a verification algorithm that verifies whether a data item from neighboring peers is part of the solution set to a spatial query. Even if the verified results constitute only part of the solution set, in which case the query client needs to wait for the required data packets to get the remaining answers, the partial answer can be utilized by many applications that do not need exact solutions but require a short response time.

Location-based spatial queries (LBSQ s) refer to spatial queries whose answers rely on the location of the inquirer. Efficient processing of LBSQ s is of critical importance with the ever-increasing deployment and use of mobile technologies. We show that LBSQ s has certain unique characteristics that the traditional spatial query processing in centralized databases does not address. For example, a significant challenge is presented by wireless broadcasting environments, which have excellent scalability but often exhibit high-latency database access. In this paper, we present a novel query processing technique that, though maintaining high scalability and accuracy, manages to reduce the latency considerably in answering LBSQ s. Our approach is based on peer-to-peer sharing, which enables us to process queries without delay at a mobile host by using query results cached in its neighboring mobile peers. We demonstrate the feasibility of our approach through a probabilistic analysis, and we illustrate the appeal of our technique through extensive simulation results.

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5. CONCLUSION AND FUTURE WORK

CONCLUSION

In this project, spatial query processing in wireless broadcast environments. Existing methods have some disadvantages e.g. increases complexity at server and client side. This can be overcome by above following ways. Spatial query processing in wireless broadcast environments and use shortest path computation as an example of specific challenges and solutions considered in that setting. Given the limitations faced in traditional query processing architectures and the ability of wireless broadcasting to alleviate many of them, it bears strong potential to serve as an alternative or a complement to common computation paradigms. A challenging problem is solved here with devising cost models for monitoring spatial queries processing in wireless broadcast environments.

FUTURE WORK

The continuing diffusion of mobile devices enables a flourishing market of locationbased services, but also poses serious scalability concerns. This motivates the wireless broadcast model, where a server repeatedly transmits the entire database, while clients selectively tune in the communication channel and process their queries locally.

It is therefore a promising research direction to extend the air indexing literature with solutions for other query types, be them of a spatial nature or otherwise.

Another interesting direction is to study different types of spatial queries, such as reverse Nearest Neighbours, and to extend.

ATTESTED PRINCIPAL SENGUNTHAP APAY AND SCHOOL COLLEGE TIRECHERCLOUR 637 195.

A PROXY RE-ENCRYPTION APPROACH TO SECURE DATASHARING IN THE INTERNET OF THINGSBASED ON BLOCKCHAIN

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

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This is to certify that dissertation entitled "A PROXY RE-ENCRYPTION APPROACH TO SECURE DATASHARING IN THE INTERNET OF THINGSBASED ON BLOCKCHAIN" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by P.JAYAPRAKASH, Register No: C21PG127CAP005 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

Place: Tiruchengode Date: 04/05/2023

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Submitted for the project Viva Voce Examination held on

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Date: 24.04.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that JAYAPRAKASH.P (Reg. No: C21PG127CAP005) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with us to do his final year project entitled "A Proxy Re-Encryption Approach to Secure Data Sharing in the Internet of Things Based on Block chain" using Java/MySQL at Cognitive i, Salem from December'2022 to March'2023

During the period of project work his performance and conduct was found to be good.

We wish him the very best forever.

With Regards,

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Arunprakasam.T Project Head



PRINCIPAL SENGUNTHAP APPE AND SCHWAT COLLEGE TIRUCHERLOUIE 637 INS.

ABSTRACT

The evolution of the Internet of Things has seen data sharing as one of its most useful applications in cloud computing. As eye-catching as this technology has been, data security remains one of the obstacles it faces since the wrongful use of data leads to several damages. In this article, we propose a proxy re-encryption approach to secure data sharing in cloud environments. Data owners can outsource their encrypted data to the cloud using identity-based encryption, while proxy re-encryption construction will grant legitimate users access to the data. With the Internet of Things devices being resource-constrained, an edge device acts as a proxy server to handle intensive computations. Also, we make use of the features of information-centric networking to deliver cached content in the proxy effectively, thus improving the quality of service and making good use of the network bandwidth. Further, our system model is based on block chain, a disruptive technology that enables decentralization in data sharing. It mitigates the bottle necks in centralized systems and achieves fine-grained access control to data. The security analysis and evaluation of our scheme show the promise of our approach in ensuring data confidentiality, integrity, and security.

ATTESTED SENGUNTHAP APP'S AND SCHWAT COLLEGE TIRUCHERCOUR 637 105.

5. CONCLUSION AND FUTURE ENHANCEMENT

The emergence of the IoT has made data sharing one of its most prominent applications. To guarantee data confidentiality, integrity, and privacy, we propose a secure identity-based PREdata-sharing scheme in a cloud computing environment. Secure data sharing is realized with IBPRE technique, which allows the data owners to store their encrypted data in the cloud and share them with legitimate users efficiently. Due to resource constraints, an edge device serves as the proxy to handle the intensive computations. The scheme also incorporates the features of ICN to proficiently deliver cached content, thereby improving the quality of service and making great use of the network bandwidth. Then, we present a blockchain-based system model that allows for flexible authorization on encrypted data. Fine grained access control is achieved, and it can help data owners achieve privacy preservation in an adequate way. The analysis and results of the proposed model show how efficient our scheme is, compared to existing schemes.

ATTESTED PRINCIPAL SENGUNTHAP APAS AND SCHWOP COLLEGE

TIRUCHERCOUR 637 405

DUAL ACCESS CONTROL FOR CLOUD-BASED DATA STORAGE AND SHARING

A dissertation submitted in partial fulfillment of the requirements

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This is to certify that dissertation entitled "DUAL ACCESS CONTROL FOR CLOUD-BASED DATA STORAGE AND SHARING" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by P.KAVIYARASAN, Register No: C21PG127CAP006 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

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Place: Tiruchengode

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Mrs.P.GAYATHRIDEVI, M.Sc (IT)., M.Phil., M.A.,

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This is to certify that P.KAVIYARASAN (Reg. No: C21PG127CAP006) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with us to do his final year project entitled "Dual Access Control For Cloud Based Data Storage And Sharing" using Java/MySQL at Cognitive i, Salem from December'2022 to March'2023.

During the period of project work his performance and conduct was found to be good.

We wish him the very best forever.

With Regards,

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ABSTRACT

Cloud-based data storage service has drawn increasing interests from both academic and industry in the recent years due to its efficient and low cost management. Since it provides services in an open network, it is urgent for service providers to make use of secure data storage and sharing mechanism to ensure data confidentiality and service user privacy. To protect sensitive data from being compromised, the most widely used method is encryption. However, simply encrypting data (e.g., via AES) cannot fully address the practical need of data management. Besides, an effective access control over download request also needs to be considered so that Economic Denial of Sustainability (EDoS) attacks cannot be launched to hinder users from enjoying service. In this paper, we consider the dual access control, in the context of cloud-based storage, in the sense that we design a control mechanism over both data access and download request without loss of security and efficiency. Two dual access control systems are designed in this project, where each of them is for a distinct designed setting. The security and experimental analysis for the systems are also presented.

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5. CONCLUSION AND FUTURE ENHANCEMENT

The project addressed an interesting and long-lasting problem in cloud-based data sharing, and presented two dual access control systems. The proposed systems are resistant to DDoS/EDoS attacks. We state that the technique used to achieve the feature of control on download request is "transplantable" to other CP-ABE constructions. Our experimental results show that the proposed systems do not impose any significant computational and communication overhead(compared to its underlying CP-ABE building block). In our enhanced system, we employ the fact that the secret information loaded into the enclave cannot be extracted. However, recent work shows that enclave may leak some amounts of its secret(s) to a malicious host through the memory access patterns or other related side-channel attacks. The model of transparent enclave execution ishence introduced. Constructing a dual access control system for cloud data sharing from transparent enclave isan interesting problem. In our future work, we will consider the corresponding solution to the problem.

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A SECURE AND EFFICIENT DATA SHARING AND SEARCHING SCHEME IN WIRELESS SENSOR NETWORK

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

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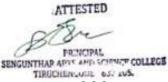
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APRIL-2023



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This is to certify that dissertation entitled "A SECURE AND EFFICIENT DATA SHARING AND SEARCHING SCHEME IN WIRELESS SENSOR NETWORK" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by K.MAITHEESH, Register No: C21PG127CAP007 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

Place: Tiruchengode Date : 04-05-2023

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Mrs.T.GAYATHRI,MCA.,M.Phil.,

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Submitted for the project Viva Voce Examination held on

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Date: 24.04.2023

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During the period of project work his performance and conduct was found to be good.

We wish him the very best forever.

With Regards,

For Cognitive i,

Arunprakasam.T **Project Head**

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ABSTRACT

Wireless sensor networks (WSN) generally utilize cloud computing to store and process sensing data in real time, namely, cloud-assisted WSN. However, the cloud-assisted WSN faces new security challenges, particularly outsourced data confidentiality. Data Encryption is a fundamental approach but it limits target data retrieval in massive encrypted data. Public key encryption with keyword search (PEKS) enables a data receiver to retrieve encrypted data containing some specific keyword in cloud-assisted WSN. However, the traditional PEKS schemes suffer from an inherent problem, namely, the keyword guessing attack (KGA). KGA includes off-line KGA and on-line KGA. To date, the existing literature on PEKS cannot simultaneously resist both off-line KGA and on-line KGA performed by an external adversary and an internal adversary. In this work, we propose a secure and efficient data sharing and searching scheme to address the aforementioned problem such that our scheme is secure against both off-line KGA and on-line KGA performed by external and internal adversaries. We would like to stress that our scheme simultaneously achieves document encryption/decryption and keyword search functions. We also prove our scheme achieves keyword security and document security. Furthermore, our scheme is more efficient than previous schemes by eliminating the pairing computation.

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5. CONCLUSION

The combination of cloud computing and WSN provides a promising solution to handle massive data. Data security requirements have become a key challenge in cloud-assisted WSN. To address limitations inherent in data security problems, in this paper, we defined a secure and efficient DSS scheme that can resist both off-line KGA and on-line KGA performed by external adversary and internal adversary, and we proposed a specific construction. This construction can simultaneously resist both on-line KGA and off-line KGA in cloud-assisted WSN. Our scheme not only realizes the keyword search function in the cloud but also implements the data files encryption/decryption function. The performance analysis shows the computation overhead at lightweight mobile devices insignificantly reduced. We also formally proved that our schemes are provably secure.

ATTESTED

FRENCIPAL SENGUNTHAP APPS APPD SCHWAT COLLEGE TIRECHERQUISE 657 495.

PRIVACY-PRESERVING AND TRUTHFUL DETECTION OF PACKET DROPPING ATTACKS IN WIRELESS AD HOC NETWORKS

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

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ATTESTED CHINGE COLLEGE TIRECHERCOUSE 637 INS.

SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHNGODE-637205 CETIFICATE

This is to certify that dissertation entitled "PRIVACY-PRESERVING AND TRUTHFUL DETECTION OF PACKET DROPPING ATTACKS IN WIRELESS AD HOC NETWORKS" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by S.MIDHUNKUMAR, Register No: C21PG127CAP008 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

Place: Tiruchengode

Date : 04/05/2023

(Mrs.R.BHARATHI, M.Sc., M.Phil.,)

Mrs.R.BHARATHI, M.Sc., M.Phil.,

(C. A. ATTER MARLES C. S. L. 24)

Submitted for the project Viva Voce Examination held on 04/05/2023

ternal Examiner

FENCIPAL SENGUNTHAP APPLY AND SCIENCE COLLEGE

ATTESTED



F-37,First floor,Murugan Kovil Street,Fairlands, Salem - 636 016



80155 67855

Date: 24.04.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that S.MIDHUNKUMAR (Reg. No: C21PG127CAP008) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with us to do his final year project entitled "Privacy-Preserving and Truthful Detection of Packet Dropping Attacks in Wireless Ad Hoc Networks" using ASP.NET(C#)/ SQL Server at Cognitive i, Salem from December'2022 to March'2023.

During the period of project work his performance and conduct was found to be good.

We wish him the very best forever.

With Regards,

For Cognitive i,

Arunprakasam.T Project Head



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ABSTRACT

Link error and malicious packet dropping are two sources for packet losses in multi-hop wireless ad hoc network. In this project, while observing a sequence of packet losses in the network, we are interested in determining whether the losses are caused by link errors only, or by the combined effect of link errors and malicious drop. We are especially interested in the insiderattack case, whereby malicious nodes that are part of the route exploit their knowledge of the communication context to selectively drop a small amount of packets critical to the network performance. Because the packet dropping rate in this case is comparable to the channel error rate, conventional algorithms that are based on detecting the packet loss rate cannot achieve satisfactory detection accuracy. To improve the detection accuracy, we propose to exploit the correlations between lost packets. Furthermore, to ensure truthful calculation of these correlations, which develop a homomorphic linear authenticator (HLA) based public auditing architecture that allows the detector to verify the truthfulness of the packet loss information reported by nodes. This construction is privacy preserving, collusion proof, and incurs low communication and storage overheads. To reduce the computation overhead of the baseline scheme, a packet-block-based mechanism is also proposed, which allows one to trade detection accuracy for lower computation complexity. Through extensive simulations, we verify that the proposed mechanisms achieve significantly better detection accuracy than conventional methods such as a maximum-likelihood based detection.

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5. CONCLUSION AND FUTURE ENHANCEMENT

In this project, we showed that compared with conventional detection algorithms that utilize only the distribution of the number of lost packets, exploiting the correlation between lost packets significantly improves the accuracy in detecting malicious packet drops. Such improvement is especially visible when the number of maliciously dropped packets is comparable with those caused by link errors. To correctly calculate the correlation between lost packets, it is critical to acquire truthful packet-loss information at individual nodes. We developed an HLA-based public auditing architecture that ensures truthful packet-loss reporting by individual nodes. This architecture is collusion proof, requires relatively high computational capacity at the source node, but incurs low communication and storage overheads over the route. To reduce the computation overhead of the baseline construction, a packet-block-based mechanism was also proposed, which allows one to trade detection accuracy for lower computation complexity.

Some open issues remain to be explored in our future work. First, the proposed mechanisms are limited to static or quasi-static wireless ad hoc networks. Frequent changes on topology and link characteristics have not been considered. Extension to highly mobile environment will be studied in our future work. In addition, in this project we have assumed that source and destination are truthful in following the established protocol because delivering packets end-to-end is in their interest. Misbehaving source and destination will be pursued in our future research. Moreover, in this project, as a proof of concept, we mainly focused on showing the feasibility of the proposed cypto-primitives and how second order statistics of packet loss can be utilized to improve detection accuracy. As a first step in this direction, our analysis mainly emphasize the fundamental features of the problem, such as the untruthfulness nature of the attackers, the public verifiability of proofs, the privacy-preserving requirement for the auditing process, and the randomness of wireless channels and packet losses, but ignore the particular behavior of various protocols that may be used at different layers of the protocol stack. The implementation and optimization of the proposed mechanism under various particular protocols will be considered in our future studies.



SECURE PHRASE SEARCH FOR INTELLIGENT PROCESSING OF ENCRYPTED DATA IN CLOUD-BASED IOT

A dissertation submitted in partial fulfillment of the requirements

for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

Periyar University, Salem - 11

BY

P.RANJITHKUMAR

Register Number: C21PG127CAP009

Under the Guidance of

Mrs.P.GAYATHRIDEVI, M.Sc (IT)., M.Phil., M.A.,



DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

SENGUNTHAR ARTS AND SCIENCE COLLEGE

(AFFILIATED TO PERIYAR UNIVERSITY)

TIRUCHENGODE - 637 205.

APRIL-2023

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ATTESTED

SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHNGODE-637205

CETIFICATE

This is to certify that project dissertation entitled "SECURE PHRASE SEARCH FOR INTELLIGENT PROCESSING OF ENCRYPTED DATA IN CLOUD-BASED IOT" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by P.RANJITHKUMAR, Register No: C21PG127CAP009 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

nature of the Guide

Place: Tiruchengode

Date : 04/05/2023

Mrs.P.GAYATHRIDEVI, M.Sc (IT)., M.Phil.,M.A.,

(Mrs.R.BHARATHI, M.Sc., M.Phil.,)

(Dr.S.RAVIKUMAR, M.Sc., M.Phil., Ph.D.,)

Submitted for the project Viva Voce Examination held on 04/05/2023

al Examiner

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TESTED



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F-37, First floor, Murugan Kovil Street, Fairlands,

Salem - 636 016

Date: 24.04.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that P.RANJITHKUMAR (Reg. No: C21PG127CAP0G9) student of Master Of Computer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully Completed with us to do his final year project entitled "Secure Phrase Search for Intelligent Processing of Encrypted Data in Cloud-Based IoT" using Java/MySQL at Cognitive i, Salem from December'2022 to March'2023.

During the period of project work his performance and conduct was found to be good.

We wish him the very best forever.

With Regards,

For Coggitive i,

Arunprakasam.T Project Head



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ABSTRACT

Phrase search allows retrieval of documents containing an exact phrase, which plays an important role in many machine learning applications for cloud-based IoT, such as intelligent medical data analytics. In order to protect sensitive information from being leaked by service providers, documents(e.g., clinic records) are usually encrypted by data owners before being outsourced to the cloud. This, however, makes the search operation an extremely challenging task. Existing searchable encryption schemes for multikeyword search operations fail toper form phrase search, as they are unable to determine the location relationship of multiple keywords in a queried phrase over encrypted data on the cloud server side.

In this project, propose P3, an efficient privacy-preserving phrase search scheme for intelligent encrypted data processing in cloud-based IoT. Our scheme exploits the homomorphic encryption and bilinear map to determine the location relationship of multiple queried keywords over encrypted data. It also utilizes a probabilistic trapdoor generation algorithm to protect users' search patterns. Thorough security analysis demonstrates the security guarantees achieved by P3. We implement a prototype and conduct extensive experiments on real-world datasets. The evaluation results show that compared with existing multi key word search schemes, P3 can greatly improve the search accuracy with moderate overheads.

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5. CONCLUSION AND FUTURE ENHANCEMENT

In this project, we presented a novel scheme, P3, which tackled the challenges in phrase search for intelligent encrypted data processing in cloud-based IoT. The scheme exploits the homomorphic encryption and bilinear map to determine the pair wise location relationship of queried keywords on the cloud server side. It eliminates the need of a trusted third party and greatly reduces communication overheads. Thorough security analysis illustrated that the proposed scheme provides the desired security guarantees. The experimental evaluation results demonstrated the effectiveness and efficiency of the proposed scheme. In future work, we plan to further improve the flexibility and efficiency of the scheme.

ATTESTED

FRENCIPAL SENGUNTHAP APPS AND SCHWAT COLLEGE TIRUCHENLUGE 657 405 AN ATTRIBUTE-ASSISTED RERANKING MODEL FOR

WEB IMAGE SEARCH

A dissertation Report submitted in partial fulfillment of the

requirements for the award of the degree of

MASTER OF COMPUTER APPLICATIONS

to the

Periyar University, Salem - 11

BY

B.SANTHOSH KUMAR

Register Number: C21PG127CAP010

Under the Guidance of

Mrs.R.BHARATHI, M.Sc., M.Phil.,



DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

SENGUNTHAR ARTS AND SCIENCE COLLEGE

(AFFILIATED TO PERIYAR UNIVERSITY)

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APRIL-2023

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SENGUNTHAR ARTS AND SCIENCE COLLEGE, TIRUCHNGODE-637205

CETIFICATE

This is to certify that dissertation entitled "AN ATTRIBUTE-ASSISTED RERANKING MODEL FOR WEB IMAGE SEARCH" submitted in partial fulfillment of the requirement for the degree of MASTER OF COMPUTER APPLICATIONS to the Periyar University, Salem is a of bonafide work carried out by B.SANTHOSH KUMAR, Register No: C21PG127CAP010 under supervision and guidance and that no part of the has been submitted for the award of any degree or diploma.

Regnature of the Guide

Mrs.R.BHARATHI, M.Sc., M.Phil.,

Place: Tiruchengode

Date : 04.05.2023

R Bh 15 HEAD OF DEPARTMEN

(Mrs.R.BHARATHI, M.Sc., M.Phil.,)

Submitted for the project Viva Voce Examination held on ______ Ok. 05. 2023

PBL 1522 Internal Examinar

External Examiner 15/29

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Date: 24.04.2023

TO WHOMSOEVER IT MAY CONCERN

is is to certify that B.SANTHOSH KUMAR (Reg. No: C21PG127CAP010) student of Master Of imputer Applications, Sengunthar Arts and Science College, Tiruchengode, has successfully impleted with us to do his final year project entitled "An Attribute-Assisted Reranking Model r Web Image Search" using Java/MySQL at Cognitive i, Salem from December'2022 to larch'2023.

uring the period of project work his performance and conduct was found to be good.

e wish him the very best forever.

/ith Regards,

or Cognitive i,

runprakasam.T roject Head



ATTESTED SENGUNTHAP APTY AND SCHWAT COLLEGE TIRECHERCOUR 637 PUS.

ABSTRACT

Image search reranking is an effective approach to refine the text-based image search isult. Most existing reranking approaches are based on low-level visual features. In this project, propose to exploit semantic attributes for image search reranking. Based on the classifiers for all the predefined attributes, each image is represented by an attribute feature consisting of the esponses from these classifiers. A hypergraph is then used to model the relationship between mages by integrating low-level visual features and attribute features. Hyper graph ranking is een performed to order the images. Its basic principle is that visually similar images should have milar ranking scores. In this project, propose a visual-attribute joint hyper graph learning pproach to simultaneously explore two information sources. A hyper graph is constructed to model the relationship of all images. We conduct experiments on more than 1,000 queries in MSRA-MMV2.0 data set. The experimental results demonstrate the effectiveness of our pproach.

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5. CONCLUSION AND FUTURE ENHANCEMENT

Image search reranking has been studied for several years and various approaches have been developed recently to boost the performance of text-based image search engine for general queries. This project serves as a first attempt to include the attributes in reranking framework. We observe that semantic attributes are expected to narrow down the semantic gap between lowlevel visual features and highlevel semantic meanings. Motivated by that, we propose a novel attribute-assisted retrieval model for reranking images. Based on the classifiers for all the predefined attributes, each image is represented by an attribute feature consisting of the responses from these classifiers. A hypergraph is then used to model the relationship between images by integrating low-level visual features and semantic attribute features. We perform hypergraph ranking to re-order the images, which is also constructed to model the relationship of all images. Its basic principle is that visually similar images should have similar ranking scores and a visual-attribute joint hypergraph learning approach has been proposed to simultaneously explore two information sources. We conduct extensive experiments on 1,000 queries in MSRA-MM V2.0 dataset. The experimental results demonstrate the effectiveness of our proposed attribute-assisted Web image search reranking method.

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DEPARTMENT OF COMPUTER SCIENCE (UG)

STUDENTS FEEDBACK 2022 – 2023

SI.	Statement	Excellent	Good	Satisfactory	Needs
No.	Whether				Improvement
1	Syllabus and learning materials are adequate in terms of quality and quantity	85	90	53	4
2	Equal weightage is given to theory and practical course content	90	86	54	2
3	Syllabus coverage in class by the faculty	98	90	40	4
4	Text books/ reference books recommended in the syllabus are relevant & updated	90	110	26	6
5	Faculty encouragement in learning process	108	87	34	3
6	Teaching - learning process enables clear understanding of the course content	94	103	28	7
7	Reliability of assessment & evaluation process	97	112	19	4
8	Availability of library resources	94	124	10	4
9	The syllabus provides sufficient knowledge & perspective in the respective areas	93	110	21	8
10	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	103	98	24	7



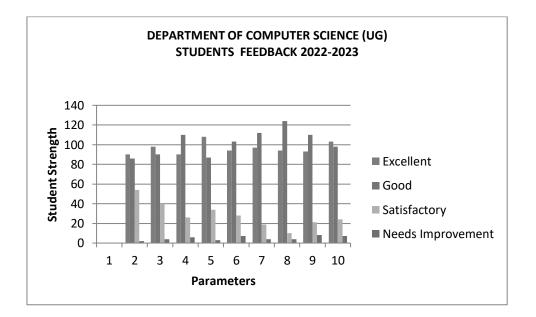


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DEPARTMENT OF COMPUTER SCIENCE (UG)

STUDENTS FEEDBACK 2022 – 2023



Parameters:

- 1. Syllabus and learning materials are adequate in terms of quality and quantity.
- 2. Equal weightage is given to theory and practical course content
- 3. Syllabus coverage in class by the faculty
- 4. Text books/ reference books recommended in the syllabus are relevant & updated
- 5. Faculty encouragement in learning process
- 6. Teaching learning process enables clear understanding of the course content
- 7. Reliability of assessment & evaluation process
- 8. Availability of library resources
- 9. The syllabus provides sufficient knowledge & perspective in the respective areas
- 10. Usage of teaching aids and ICT in the class by faculty to facilitate teaching



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STUDENTS FEEDBACK ON ACADEMIC AND AMBIENCE

Name of the Student : NWetha.P

Roll.No: 2081514

Course & Year: 11 - BCA

Department: CS

S.NO	Parameter	Excellent	Good	Satisfactory	Needs Improvement
1	Syllabus and learning materials are adequate in terms of quality and quantity		Л		
2	Equal weightage is given to theory and practical course content	И			
3	Syllabus coverage in class by the faculty		Л		
4	Text books/ reference books recommended in the syllabus are relevant & updated			И	
5	Faculty encouragement in learning process	Л			
6	Teaching - learning process enables clear understanding of the course content		Л		
7	Reliability of assessment & evaluation process	Л			
8	Availability of library resources		Л		
9	The syllabus provides sufficient knowledge & perspective in the respective areas		~	И	
10	Usage of teaching aids and ICT in the class by faculty to facilitate teaching	И			

Any Suggestions :

Place: Tiuchengode

Date: 23.5.23



willetha.P

Signature of the Student

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Needs

Since 1991

S.NO

TIRUCHENGODE – 637 205, NAMAKKAL DT., TAMILNADU

STUDENTS FEEDBACK ON ACADEMIC AND AMBIENCE

Excellent

Name of the Student: Abircaj M

Parameter

Roll.No: 20BISOI Department: computer science

Satisfactory

Good

Course & Year : 111 - BCA

Improvement Syllabus and learning materials are 1 adequate in terms of quality and 1 quantity Equal weightage is given to theory 2 \mathcal{A} and practical course content Syllabus coverage in class by the 3 $\boldsymbol{\Lambda}$ faculty Text books/ reference books 4 1 recommended in the syllabus are relevant & updated Faculty encouragement in learning 5 1 process 1 Teaching - learning process enables 6 clear understanding of the course 1 content Reliability of assessment & evaluation 7 \mathcal{A} process Availability of library resources 8 \mathcal{A} The syllabus provides sufficient 9 knowledge & perspective in the \mathcal{A} respective areas Usage of teaching aids and ICT in the 10 class by faculty to facilitate teaching 1

Any Suggestions :

Place: T. Gode

Date: 23. S. 2023

ATTESTED FRINCIPAL SENGUNTHAR APPS AND SCHWAT COLLEGE TIRICHENLUGE BS/ 195

Abiotaj.M Signature of the Student

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STUDENTS FEEDBACK ON ACADEMIC AND AMBIENCE

Name of the Student : Bhanath.5

Roll.No: 22UCA1504

Course & Year : I-BCA

Since 1991

Department: CS

S_N	O Parameter	Excellent	Good	Satisfactory	Needs Improvement
71	Syllabus and learning materials are adequate in terms of quality and quantity	V			
2	Equal weightage is given to theory and practical course content		V		
3	Syllabus coverage in class by the faculty	V			
-	Text books' reference books recommended in the syllabus are relevant & updated			V	
5	Faculty encouragement in learning process		\mathbf{r}		
6	Teaching - learning process enables clear understanding of the course content	V			
eb	Reliability of assessment & evaluation process			V	
8	Availability of library resources	V			
9	The syllabus provides sufficient knowledge & perspective in the respective areas			V	
10	Usage of teaching aids and ICT in the class by faculty to facilitate teaching		V		

Any Suggestions :

Place: Trichengoole

Date: 22,5,2023

ATTESTED FRENCIPAL SENGUNTHAR APPS AND SCIENCE COLLEGE TIRUCHENCUGE 637 205.

5, Bharath Signature of the Student



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TIRUCHENGODE – 637 205, NAMAKKAL DT., TAMILNADU

STUDENTS FEEDBACK ON ACADEMIC AND AMBIENCE

Name of the Student : P. Malathi.

Roll.No: 22VCSA529.

Course & Year : $\mathbf{T} - \mathbf{CS}$,

Department: COMPUTErScience,

	S.NO	Parameter	Excellent	Good	Satisfactory	Needs Improvement
	1	Syllabus and learning materials are adequate in terms of quality and quantity	~			
	2	Equal weightage is given to theory and practical course content		\checkmark		
	3	Syllabus coverage in class by the faculty			~	
	4	Text books/ reference books recommended in the syllabus are relevant & updated		\checkmark		
	5	Faculty encouragement in learning process	\checkmark			
	6	Teaching - learning process enables clear understanding of the course content			\checkmark	
	7	Reliability of assessment & evaluation process	\checkmark			
	8	Availability of library resources		\checkmark		
	9	The syllabus provides sufficient knowledge & perspective in the respective areas		\checkmark		
	10	Usage of teaching aids and ICT in the class by faculty to facilitate teaching			\checkmark	

Any Suggestions :

Place: Trichengode.

Date: 22.05.2023

PRINCIPAL SENGUNTHAR APPLY AND SCIENCE COLLEGE TIRUCHENCOUSE 637 rus.

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P.Malathi. Signature of the Student 200



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S.NO

TIRUCHENGODE - 637 205, NAMARKAL DT., TAMILNADU

STUDENTS FEEDBACK ON ACADEMIC AND AMBIENCE

Name of the Student : Ramya . C

Parameter

Noll.No: 0181500

Department: COMPULEN SCIENCE

Course & Year : 11 - BCA

Ninh Satisfactory Good Excellent Improvement

1	Syllabus and learning materials are adequate in terms of quality and quantity		~		
2	Equal weightage is given to theory and practical course content	5			
3	Syllabus coverage in class by the faculty			U	
4	Text books/reference books recommended in the syllabus are relevant & updated				
5	Faculty encouragement in learning process		1		
6	Teaching - learning process enables clear understanding of the course content	~			
7	Reliability of assessment & evaluation process		A	na an a	
8	Availability of library resources			124	
9	The syllabus provides sufficient knowledge & perspective in the respective areas	v			
10	Usage of teaching aids and ICT in the class by faculty to facilitate teaching		v		

Any Suggestions :

Place: Touchengode

Date: 22.5.2023

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PRINCIPAL SENGUNTHAR APTS AND SCIENCE COLLEGE TIRUCHENCOUSE 637 205.

Rainya C

Signature of the Student