

B.C.A. (For the Students admitted during the Academic year 2023 - 24)

(Based on U.G.C. - LOCF and TANSCH – CBCS)

SEMESTER – I									
Sl. No.	Part	Course code	Title of the Course	Hrs / Week	Credits	Exam Hours	Marks		Total
							CIA	ESE	
1	I	U1R3TL1/ HL1/FL1	Language – I (Tamil/Hindi/French)	6	3	3	25	75	100
2	II	U1R3EL1	Language – II (English)	6	3	3	25	75	100
3	III	U1R3CACC1	Python Programming	5	5	3	25	75	100
4		U1R3CACC2P	Python Programming Practical	5	5	3	40	60	100
5		U1R3CADSE1:1 / 1:2/1:3	1:1 Discrete Mathematics – I 1:2 Statistical methods and its applications – I 1:3 Numerical methods	4	3	3	25	75	100
6	IV	U1R3MASEC1	1.Quantitative aptitude – I	2	2	3	25	75	100
7		U1R3CAFC	Structured Programming Language in C	2	2	3	25	75	100
Total				30	23				700
SEMESTER – II									
Sl. No	Part	Course Code	Title of the Course	Hrs / Week	Credits	Exam Hours	Marks		
							CIA	ESE	Total
1	I	U2R3TL2/ HL2/FL2	Language – I (Tamil/Hindi/French)	6	3	3	25	75	100
	II	U2R3EL2	Language – II (English)	6	3	3	25	75	100
3	III	U2R3CACC3	Object Oriented Programming concepts using C++	5	5	3	25	75	100
4		U2R3CACC4P	C++ Programming Practical	5	5	3	40	60	100
5		U2R3CADSE2:1 / 2:2 / 2:3	2:1 Discrete Mathematics – II 2:2 Statistical methods and its Applications-II 2:3 Graph theory and its Applications	4	3	3	25	75	100
6	IV	U2R3CASEC2 (NME2)	2:1 Managerial Skill Development 2:2 Quantitative Aptitude-II	2	2	3	25	75	100
7		U2R3CASEC 3:1 / 3:2	3:1 Fundamentals of Information Technology 3:2 Understanding Internet	2	2	3	25	75	100
Total				30	23				700

SEMESTER – III									
Sl. No	Part	Course Code	Title of the Course	Hrs / Week	Credits	Exam Hours	Marks		
							CIA	ESE	Total
1	I	U3R3TL3/HL3/FL3	Language – I (Tamil/Hindi/French)	5	3	3	25	75	100
2	II	U3R3EL3	Language – II (English)	5	3	3	25	75	100
3	III	U3R3CACC5	RDBMS	6	5	3	25	75	100
4		U3R3CACC6P	SQL and PL/SQL Practical	5	5	3	40	60	100
5		U3R3CADSE3:1 / 3:2	3:1 Organizational Behavior 3:2 Financial Accounting	4	3	3	25	75	100
6	IV	U3R3VE	Value Education	2	2	3	25	75	100
7		U3R3CASEC4:1 / 4:2	4:1 Data structures and Algorithms 4:2 Datamining and Warehousing	3	2	3	25	75	100
			Total	30	23				700
SEMESTER – IV									
Sl. No	Part	Course Code	Title of the Course	Hrs / Week	Credits	Exam Hours	Marks		
							CIA	ESE	Total
1	I	U4R3TL4/ HL4/FL4	Language – I (Tamil/Hindi/French)	5	3	3	25	75	100
2	II	U4R3EL4	Language– II (English)	5	3	3	25	75	100
3	III	U4R3CACC7	Programming in Java	5	5	3	25	75	100
4		U4R3CACC8P	Programming in Java Practical	5	5	3	40	60	100
5		U4R3CADSE4:1 / 4:2	4:1 Human Computer Interaction 4:2 Natural Language Processing	3	3	3	25	75	100
	IV	U4R3CASEC5:1 / 5:2	5:1 Multimedia Systems 5:2 Enterprise Resource Planning	2	2	3	25	75	100
7		U4R3CASEC6:1 / 6:2	6:1 Web Design 6:2 Introduction to HTML	3	2	3	25	75	100
8		U4R3EVS	Environmental Studies	2	2	3	25	75	100
			Total	30	25				800

SEMESTER – V									
SL No	Part	Course Code	Title of the Course	Hrs / Week	Credits	Exam Hours	Marks		
							CIA	ESE	Total
1	I	U5R3CACC9	Operating Systems	5	5	3	25	75	100
2	II	U5R3CACC10	Computer Networks	5	4	3	25	75	100
3	III	U5R3CACC11	ASP.NET Programming	5	4	3	25	75	100
4		U5R3CACC12 P	ASP.NET Programming Practical	5	4	3	40	60	100
5		U5R3CADSE 5:1/ 5:2	5:1 Software Engineering 5:2 Software Project Management	5	3	3	25	75	100
✓		U5R3CADSE 6:1/ 6:2	6:1 Internet of Things 6:2 Mobile Computing	5	3	3	25	75	100
7	IV	U5R3CAINT	Internship* Semester –IV Summer Vacation	-	2	-	-	100	100
			Total	30	25				700
SEMESTER – VI									
SLNo	Part	Course Code	Title of the Course	Hrs / Week	Credits	Exam Hours	Marks		
							CIA	ESE	Total
1	I	U6R3CACC13	Web Technology	5	4	3	25	75	100
2	II	U6R3CACC14P	Web Technology Practical	5	4	3	40	60	100
3	III	U6R3CACC15PW	Software Application Project	5	4	3	-	100	100
		U6R3CADSE7:1 / 7:2	7:1 Artificial Intelligence 7:2 Cloud Computing	5	3	3	25	75	100
5		U6R3CADSE8:1 / 8:2	8:1 Internet Programming 8:2 E-Commerce Technologies	5	3	3	25	75	100
6	IV	U6R3CASEC7:1 / 7:2	7:1 Software Testing 7:2 Wireless Network	3	2	3	25	75	100
7	V	U6R3GS	Gender Studies	2	1	3	25	75	100
8			Extension Activity	-	1	-			
			Total	30	22				700
		Grand Total	43 – Courses		141				4300

Resolutions pertaining to M.C.A. Programme

21. Resolved to offer the following **12 Core Courses** which is listed **below** Semester wise.

Semester – I

- | | | |
|--------------------------------|---|------------------|
| 1. Discrete Mathematics | - | Retained |
| 2. Linux and Shell Programming | - | Newly Introduced |
| 3. Python Programming | - | Newly Introduced |

Semester - II

- | | | |
|--|---|-------------------|
| 4. Data Structures and Algorithms | - | Newly Introduced |
| 5. Big Data Analytics | - | Syllabus Modified |
| 6. Data Structures and Algorithms & Big Data Analytics Lab - | | Newly Introduced |

Semester – III

- | | | |
|----------------------------------|---|----------|
| 7. Management Information System | - | Retained |
| 8. Compiler Design | - | Retained |
| 9. Data Base Management System | - | Retained |
| 10. RDBMS Practical | - | Retained |

Semester – IV

- | | | |
|--|---|------------------|
| 11. E-Commerce | - | Newly Introduced |
| 12. Software Quality Assurance and Testing | - | Retained |

22. Resolved to offer the following **05 Discipline Elective Courses.,**

DSE – 1 (Theory - Any 01 in Semester - I)

- | | | |
|------------------------------------|---|-------------------|
| 1. Data Engineering and Management | - | Newly Introduced |
| 2. Architecture and Frameworks | - | Newly Introduced |
| 3. Network Protocols | - | Newly Introduced |
| 4. Dot Net Technologies | - | Syllabus Modified |

DSE – 2 (Lab -Any 01 in Semester - I)

- | | | |
|--|---|------------------|
| 1. Data Engineering and Management Lab | - | Newly Introduced |
| 2. Architecture and Frameworks lab | - | Newly Introduced |

3. Network Protocols Lab - Newly Introduced

4. Dot Net Technologies lab - Syllabus Modified

DSE – 3 (Theory - Any 01 in Semester - II)

1. Software Development Technologies - Newly Introduced

2. Soft Computing - Newly Introduced

DSE – 4 (Theory - Any 01 in Semester - II)

1. Social Networks - Newly Introduced

2. High Performance Computing - Newly Introduced

DSE – 5 (Theory - Any 01 in Semester - III)

1. Data Communication Networks - Retained

2. Network Security - Retained

23. Resolved to offer the following **02 Skill Enhancement Courses**,

SEC – 1 (Theory - Any 01 in Semester - II)

1. Internet of Things - Syllabus Modified

2. Computer Vision - Newly Introduced

SEC – 2 (Theory - Any 01 in Semester - III)

1. Software Engineering - Retained

2. Software Project Management - Newly Introduced

24. Resolved to offer **Internship** – To be done during the summer vacation of **Second Semester**. The Report should be evaluated and credits **(02)** to be awarded in the Third Semester.

25. Students should be motivated to do concurrent Online Courses in various Platforms like SWAYAM / MOOCS – Those Credits can be included as EXTRA CREDITS in the students Cumulative Mark Statement.

Master of Computer Applications – M.C.A.

Course Structure based on U.G.C. - LOCF and TANSCHÉ

Choice Based Credit System

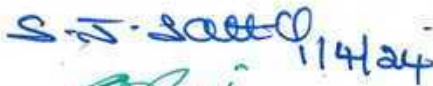
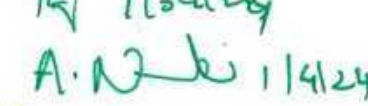
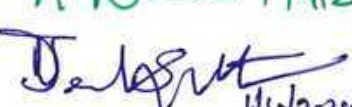
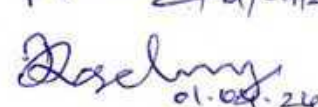
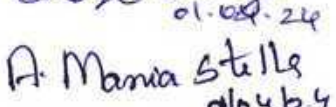
(To be followed from the Academic year 2023 - 2024 onwards)

SEMESTER – I								
Sem	Course Code	Course Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total
						Int	Ext	
I	PIR3CACC1	Discrete Mathematics	7	5	3	25	75	100
	PIR3CACC2	Linux and Shell Programming	7	5	3	25	75	100
	PIR3CACC3	Python Programming	6	4	3	25	75	100
	PIR3CADSE 1:1 / 1:2 / 1:3 / 1:4	1:1 Data Engineering & Management 1:2 Architectural Frameworks 1:3 Network Protocols 1:4 Dot Net Technologies	5	3	3	25	75	100
	PIR3CADSE2: 1P / 2:2P / 2:3P / 2:4P	2:1P.Data Engineering & Management Lab 2:2P Architectural Frameworks Lab 2:3P Network Protocols Lab 2:4P Dot Net Technologies Lab	5	3	3	40	60	100
		Total	30	20	-	-	-	500

SEMESTER – II								
Sem	Course Code	Course Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total
						Int	Ext	
II	P2R3CACC4	Data Structures and Algorithms	6	5	3	25	75	100
	P2R3CACC5	Big Data Analytics	6	5	3	25	75	100
	P2R3CACC6P	Data Structure and Algorithm & Big Data Analytics Lab	6	4	3	40	60	100
	P2R3CADSE 3:1 / 3:2	3:1 Software Development Technologies 3:2 Soft Computing	5	3	3	25	75	100
	P2R3CADSE 4:1 / 4:2	4:1 Social Networks 4:2 High Performance Computing	5	3	3	25	75	100
	P2R3CASEC 1:1 / 1:2	1:1 Internet of Things 1:2 Computer Vision	2	2	3	25	75	100
		Total	30	22	-	-	-	600
SEMESTER – III								
III	P3R3CACC7	Management Information System	5	5	3	25	75	100
	P3R3CACC8	Compiler Design	5	5	3	25	75	100
	P3R3CACC9	Data Base Management System	5	5	3	25	75	100
	P3R3CACC10P	RDBMS Practical	5	5	3	40	60	100
	P3R3CADSE 5:1 / 5:2	5:1 Data Communication Networks 5:2 Network Security	5	3	3	25	75	100
	P3R3CASEC 2:1 / 2:2	2:1 Software Engineering 2:2 Software Project Management	5	2	3	25	75	100
	P3R3CAINT	Internship	--	3	--	--	100	100
		Total	30	28	-	-	-	700

SEMESTER – IV								
IV	P4R3CACC11	E-Commerce	06	5	3	25	75	100
	P4R3CACC12	Software Quality Assurance and Testing	06	5	3	25	75	100
	P4R3CACC13P W	Project Work	18	10	--	-	100	100
		Total	30	20	-	-	-	300
	Grand Total	21 – Courses		90	-	-	-	2100

SIGNATURE OF THE MEMBERS:

1.  11/4/24 - Dr.S.J.Sathish Aaron Joseph - (Chairman)
2.  01/04/24 - Dr.E.George Dharma Prakash Raj - (Univ. Nominee)
3.  11/04/24 - Dr.S.Santhoshkumar - (Subject Expert)
4.  11/4/24 - Dr.A.Nagarajan - (Subject Expert)
5.  11/4/2024 - Ms.J.Neela Saraswathi - (Faculty Member)
6.  01/04/24 - Mr.S.Anthonisamy - (Faculty Member)
7.  01-04-24 - Dr.K.Selvan - (Faculty Member)
8.  01/04/24 - Ms.A.Mariastella - (Faculty Member)
9. **NOT PRESENT** - Mr. R.Ramasubramanian - (Corporate Member)
10.  01/04/24 - Ms.P.Nandhini - (Alumnus)