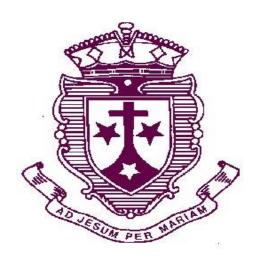
DEPARTMENT OF

MASTER OF COMPUTER APPLICATIONS



MOUNT CARMEL COLLEGE AUTONOMOUS

58, PALACE ROAD, BENGALURU - 560 052

MOUNT CARMEL COLLEGEAUTONOMOUS MCA SYLLABUS CHOICE BASED CREDIT SYSTEM (w.e.f. 2018 BATCH)

Mount Carmel College, Autonomous MCA Syllabus Choice Based Credit System (w.e.f. 2018 batch)

I SEMESTER

Sem	Paper	Paper Title		of Ho er wee		Total	Marks			
	Code	Code	L	Т	P	Credit	CIA	ESE	Total	
	1MCACC1	Programming and Problem Solving Using C	4	-	-	4	30	70	100	
	1MCACC2	Computer Organization and Assembly Language Programming	4	1	-	4	30	70	100	
I	1MCACC3	Discrete Mathematics	4	-	-	4	30	70	100	
	1MCACC4	Management Information Systems	4	-	-	4	30	70	100	
	1MCAAC1	Accounting and Financial Management	3	1	-	2	30	70	100	
	1MCAP1	C Programming Lab	-	-	6	3	30	70	100	
	1MCAP2	Tally and ALP Lab	-	-	6	3	30	70	100	
		Total	19	1	12	24	210	490	700	

 $L-Lecture \qquad \qquad T-Tutorial \qquad \qquad P-Practical$

CIA – Continuous Internal Assessment ESE – End Semester Examination

II SEMESTER

Sem			No. of Hours						
	Paper	Paper Title	(per week)			Total	Marks		
	Code		L	Т	P	Credit	CIA	ESE	Total
	2MCACC1	Database Management Systems	4	-	-	4	30	70	100
	2MCACC2	Operating Systems	4	-	-	4	30	70	100
II	2MCACC3	Data and File Structures	4	-	-	4	30	70	100
11	2MCACC4	Java Programming	4	-	-	4	30	70	100
	2MCAAC1	Probability and Statistics	3	1	-	2	30	70	100
	2MCAP1	Java Programming Lab	-	-	6	3	30	70	100
	2MCAP2	Data and File Structures Lab	-	-	6	3	30	70	100
		Total	19	1	12	24	210	490	700

L – Lecture T – Tutorial P – Practical

CIA – Continuous Internal Assessment ESE – End Semester Examination

III SEMESTER

Sem				of Ho		Total	Marks			
	Paper Code	Paper Title	L	Т	P	Credit	CIA (30)	(70)	Total (100)	
	3MCACC1	Advanced Web Programming	4	-	-	4	30	70	100	
	3MCACC2	Finite Automata and Formal Languages	4	-	-	4	30	70	100	
	3MCACC3	Software Engineering	4	-	-	4	30	70	100	
III	3MCACC4	Mobile Applications Development	4	-	-	4	30	70	100	
	3MCAP1	Advanced Web Programming Lab	-	-	6	3	30	70	100	
	3MCAP2	DBMSLab	6 3		3	30	70	100		
	3MCAP3	Mobile Applications Development Lab	-	-	6	3	30	70	100	
		Total	16	-	18	25	210	490	700	

 $L-Lecture \qquad \qquad T-Tutorial \qquad \qquad P-Practical$

CIA – Continuous Internal Assessment ESE – End Semester Examination

IV SEMESTER

Sem	Paper Code	Paper Title		of Ho		Total	Marks		
	Tuper coue	Tuper Title	L	Т	P	Credit	CIA (30)	ESE (70)	Total (100)
	4MCACC1	Data Communication and Computer Networks	4	-	-	4	30	70	100
	4MCACC2	Design and Analysis of Algorithms	4	-	-	4	30	70	100
	4MCACC3	Data Warehousing and Knowledge Mining	4	-	-	4	30	70	100
IV	4MCAEC11/ 4MCAEC12/ 4MCAEC13	Elective 1	4	-	-	4	30	70	100
	4MCAP1	UML and Software Testing Tools Lab	-	-	6	3	30	70	100
	4MCAP2	Data Analytics Lab	-	-	6	3	30	70	100
	4MCAECP11/ 4MCAECP12/ 4MCAECP13	Elective 1 Lab	-	-	6	3	30	70	100
		Total	16	-	18	25	210	490	700

 $L-Lecture \qquad \qquad T-Tutorial \qquad \qquad P-Practical$

CIA – Continuous Internal Assessment ESE – End Semester Examination

Elective 1 Lab

4MCAEC12 Open Source Technologies 4MCAECP12 Open SourceTechnologiesLab

4MCAEC13 Artificial Intelligence 4MCAECP13 J2EE Lab

V SEMESTER

Sem			No.	of H	ours	Total	Marks			
Sem	Paper Code	Paper Title	(pe	er we	ek)	Total				
			L	Т	P	Credit	CIA (30)	ESE (70)	Total (100)	
	5MCACC1	Machine Learning using Python	4	-	-	4	30	70	100	
	5MCACC2	Network Information Security	4	-	-	4	30	70	100	
V	5MCACC3	Cloud Computing	4	-	-	4	30	70	100	
	5MCAEC21/ 5MCAEC22/ 5MCAEC23	Elective 2	4	-	-	4	30	70	100	
	5MCAP1	Cloud Computing Lab	-	2	4	3	30	70	100	
	5MCAP2	Python Programming Lab	-	-	6	3	30	70	100	
	5MCAECP21/ 5MCAECP22/ 5MCAECP23	Elective 2 Lab	-	-	6	3	30	70	100	
	5MCAIMC1	Open Elective	2	-	-	1	15	35	50	
		Total	18	2	16	26	225	525	750	

L – Lecture T – Tutorial CIA – Continuous Internal Assessment

P – Practical

ESE – End Semester Examination

Elective 2

5MCAEC21 Digital Image Processing

5MCAEC22 Internet of Things

5MCAEC23 System Modeling and Simulation

Elective 2 Lab

5MCAECP21 Digital Image Processing Lab

5MCAECP22 Internet of things Lab

5MCAECP23 System Modeling and Simulation

Lab

Inter/Multidisciplinary Course: 5MCAIMC13D Animation using Maya

VI SEMESTER

Sem			Total		S	
	Paper Code	Paper Title	Credit	CIA	ESE	Total
	6MCAEC31	Elective 3	4	30	70	100
VI	6MCAEC41	Elective 4	4	30	70	100
	6MCACC1	Project	08	75	125	200
	6MCACDP1	Community Development Project	01	15	35	50
		Total	17	150	300	450

Elective 3 & 4:

- Advanced Algorithms
- Optimization Techniques
- Advanced Networks
- Storage Area Networks
- Parallel Computing
- Software Project Management
- Software Testing and Quality Assurance
- Enterprise Resource Planning
- Micro services