

**M.C.A. – MASTER OF COMPUTER APPLICATION****I Year**

Paper	Subjects	Duration (in hours)	Maximum Marks	Passing Minimum Marks
1	Mathematical Foundations for Computer Science	3	100	50
2	Statistical Methods	3	100	50
3	Introduction to Information Technology	3	100	50
4	Microprocessors	3	100	50
5	Programming in C	3	100	50
6	Accounting and Financial Management	3	100	50
7	Digital Computer Fundamentals	3	100	50
8	Object Oriented Programming with C++	3	100	50
9	Software Engineering	3	100	50
10	Data Structures	3	100	50
11	Practical-I: C Language Record	3	100	50
12	Practical-II: Data Structures Using C++ Record	3	100	50
13	Practical-III: Microprocessors Record	3	100	50

**II Year**

Paper	Subjects	Duration (in hours)	Maximum Marks	Passing Minimum Marks
14	Algorithm Analysis and Design	3	100	50
15	Data Communication and Networking	3	100	50
16	Computer Architecture	3	100	50
17	Operating System	3	100	50
18	Programming in Java	3	100	50
19	Computer Graphics	3	100	50
20	COBOL Programming	3	100	50
21	Object Oriented Analysis and Design	3	100	50
22	Organization Dynamics	3	100	50
23	Elective-I: Network Programming	3	100	50
24	Practical-IV: COBOL	3	100	50
25	Practical-V: Java	3	100	50
26	Practical-VI: UNIX	3	100	50
27	Practical-VII: Based on PCA 210	3	100	50

**III Year**

Paper	Subjects	Duration (in hours)	Maximum Marks	Passing Minimum Marks
28	Internet and its Application	3	100	50
29	Database Management System	3	100	50
30	Multimedia System	3	100	50
31	Elective-II: E-Commerce	3	100	50
32	Elective-III: Distributed Computing	3	100	50
33	Practical- VIII: Mini Project(on Multimedia / Web page Design) Record	3	100	50
34	Practical-IX: RDBMS Record	3	100	50
35	Project	3	100	50
	Project Work	3	100	50
	Project Report	3	100	50
	Viva Voce	3	100	50