

Course Structure

Master of Computer Applications (MCA)

Under Choice Based Credit System (CBCS) System

First Semester:

Paper No.	Subject	Maximum Marks	
		End semester	In semester
MCA - 101	Theory of Computer Science	60	40
MCA - 102	Computer Programming & Problem Solving	60	40
MCA - 103	Basic Electronics	60	40
MCA - 104	Accounting & Financial Management	60	40
MCA - 105	Numerical & Statistical Methods	60	40
MCA - 106	Programming Laboratory-I (C-75% & Basic Electronics-25%)	120	80
Total Marks		700	

Second Semester:

Paper No.	Subject	Maximum Marks	
		End semester	In semester
MCA - 201	Optimization Techniques and Queuing Theory	60	40
MCA - 202	Data & File Structures	60	40
MCA - 203	Combinatorics & Graph Theory	60	40
MCA - 204	Information Systems	60	40
MCA - 205	Computer Organization	60	40
MCA - 206	Programming Laboratory-II (DFS & CGT-75%, CO-25%)	120	80
Total Marks		700	

Third Semester:

Paper No.	Subject	Maximum Marks	
		End semester	In semester
MCA - 301	System Software	60	40
MCA - 302	Computer Graphics & Multimedia	60	40
MCA - 303	Database Management System - I	60	40
MCA - 304	Embedded Systems	60	40
MCA - 305	Object Oriented Programming & Design	60	40
MCA - 306	Programming Laboratory-III (Java-50%, Embedded Systems-50%)	120	80
Total Marks		700	

Fourth Semester:

Paper No.	Subject	Maximum Marks	
		End semester	In semester
MCA - 401	Operating System	60	40
MCA - 402	Database Management System - II	60	40
MCA - 403	Software Engineering	60	40
MCA - 404	Computer Communication	60	40
MCA - 405	Design and Analysis of Algorithm	60	40
MCA - 406	Programming Laboratory-IV (UNIX-50%, DBMS-50%)	120	80
Total Marks		700	

Fifth Semester:

Paper No.	Subject	Maximum Marks	
		End semester	In semester
MCA - 501	Data warehousing & Data Mining	60	40
MCA - 502	Computer Networks	60	40
MCA - 503	Computer Architecture	60	40
MCA - 504	Elective - I	60	40
MCA - 505	Elective - II	60	40
MCA - 506	System Development Project – I (Minor Project)	120	80
Total Marks		700	

Sixth Semester:

Paper No.	Subject	Maximum Marks	
		End semester	In semester
MCA - 601	System Development Project – II (Major Project)	150	150