

MCA SCHEME

(2011 Onwards)

I Semester

Course No.	Subject	No. of hours per week		Duration of Exam in hrs	Sessional Marks Max.	Sem. Exam. Marks Max	Total Mark
		Lect	Lab.				
MCA101	Mathematical Foundations of Computer Science	4	-	3	25	75	100
MCA102	Digital Systems & Logic Design	4	-	3	25	75	100
MCA103	Computer Organization and Architecture	4	-	3	25	75	100
MCA104	Principles of Management and Accounting	4	-	3	25	75	100
MCA105	Structured Programming in C	4	-	3	25	75	100
MCA106	C Programming Lab	-	4	3	25	75	100
MCA107	PC Hardware Lab	-	2	2	25	25	50
MCA108	Communication & Soft skills	-	2		50		50
	Total	20	8				700

II Semester

Course No.	Subject	No. of hours per week		Duration of Exam in hrs	Sessional Marks Max.	Sem. Exam. Marks Max	Total Mark
		Lect	Lab.				
MCA201	Probability and Statistics	4	-	3	25	75	100
MCA202	Data Structures and Analysis of Computer Algorithms	4	-	3	25	75	100
MCA203	Microprocessors and Embedded Systems	4	-	3	25	75	100
MCA204	Operating Systems	4	-	3	25	75	100
MCA205	Object Oriented Programming with C++	4	-	3	25	75	100
MCA206	C++ Lab	-	4	3	25	75	100
MCA207	Data Structures Lab in 'C'	-	4	3	25	75	100
	Total	20	8				700

III Semester

Course No.	Subject	No. of hours per week		Duration of Exam in hrs	Sessional Marks Max.	Sem. Exam. Marks Max	Total Mark
		Lect	Lab.				
MCA301	Java and Web Programming	4	-	3	25	75	100
MCA302	Software Engineering	4	-	3	25	75	100
MCA303	System Software	4	-	3	25	75	100
MCA304	Data Base Management Systems	4	-	3	25	75	100
MCA305	Data Communications	4	-	3	25	75	100
MCA306	Java Programming Lab	-	4	3	25	75	100
MCA307	DBMS Lab	-	4	3	25	75	100
	Total	20	8				700

IV Semester

Course No.	Subject	No. of hours per week		Duration of Exam in hrs	Sessional Marks Max.	Sem. Exam. Marks Max	Total Mark
		Lect	Lab.				
MCA 401	Operations Research	4	-	3	25	75	100
MCA 402	Computer Networks	4	-	3	25	75	100
MCA 403	Linux and Shell Programming	4	-	3	25	75	100
MCA 404	Object Oriented Modeling and Design	4	-	3	25	75	100
MCA 405	Elective- I	4		3	25	75	100
MCA 406	Linux Lab	-	4	3	25	75	100
MCA 407	Open Source Lab – Python/PHP	-	4	3	25	75	100
	Total	20	8				700

V Semester

Course No.	Subject	No. of hours per week		Duration of Exam in hrs	Sessional Marks Max.	Sem. Exam. Marks Max	Total Mark
		Lect	Lab.				
MCA501	Computer Security	4	-	3	25	75	100
MCA502	Internet Technology and Distributed Applications	4	-	3	25	75	100
MCA503	Computer Graphics	4	-	3	25	75	100
MCA504	Data Mining	4	-	3	25	75	100
MCA505	Elective - II	4	-	3	25	75	100
MCA506	Computer Graphics Lab	-	2	2	25	25	50
MCA507	Seminar	-	2		50	-	50
MCA508	Mini Project	-	4		100	-	100
	Total	20	8				700

VI Semester

Course No.	Subject	No. of hours per week		Duration of Exam in hrs	Sessional Marks Max.	Sem. Exam. Marks Max	Total Mark
		Lect	Lab.				
MCA 601	Project	-	28	-	200	200	400
MCA 602	Viva-voce	-	-	-		100	100
	Total	-	28				500

ELECTIVE-I

1. Visual Programming
2. Software Quality Management
3. Business Data Processing & COBOL Programming
4. Enterprise Resource Planning
5. Multimedia Systems
6. Neural Networks & Fuzzy Logic
7. Artificial Intelligence
8. Management Information Systems

ELECTIVE-II

1. User Interface Design
2. Bioinformatics
3. Digital Image Processing
4. Advanced Computing Paradigms
5. XML & Web Services
6. Distributed Computing
7. Embedded Systems
8. Genetic Algorithms