

CURRICULAM

I SEMESTER

CODE	SUBJECT NAME
MCA 101	Mathematical Foundations of Computer Science
MCA 102	Digital Systems & Logic Design
MCA 103	Computer Organization and Architecture
MCA 104	Principles of Management and Accounting
MCA 105	Structured Programming in C
MCA 106	C Programming Lab
MCA 107	PC Hardware Lab
MCA 108	Communication & Soft skills

II SEMESTER

CODE	SUBJECT NAME
MCA 201	Probability and Statistics
MCA 202	Data Structures and Analysis of Computer Algorithms
MCA 203	Microprocessors and Embedded Systems
MCA 204	Operating Systems
MCA 205	Object Oriented Programming with C ⁺⁺
MCA 206	C ⁺⁺ Lab
MCA 207	Data Structures Lab in 'C'

III SEMESTER

CODE	SUBJECT NAME
MCA 301	Java and Web Programming
MCA 302	Software Engineering
MCA 303	System Software
MCA 304	Data Base Management Systems
MCA 305	Data Communications
MCA 306	Java Programming Lab
MCA 307	DBMS Lab

IV SEMESTER

CODE	SUBJECT NAME
MCA 401	Operations Research
MCA 402	Computer Networks
MCA 403	Linux and Shell Programming
MCA 404	Object Oriented Modeling and Design
MCA 405	Elective- I
MCA 406	Linux Lab
MCA 407	Open Source Lab – Python/PHP

V SEMESTER

CODE	SUBJECT NAME
MCA 501	Computer Security
MCA 502	Internet Technology and Distributed Applications
MCA 503	Computer Graphics
MCA 504	Data Mining
MCA 505	Elective - II
MCA 506	Computer Graphics Lab
MCA 507	Seminar
MCA 508	Mini Project

VI SEMESTER

CODE	SUBJECT NAME
MCA 601	Project
MCA 602	Viva-voce

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. Bio informatics
3. Digital Image Processing
4. Advanced Computing Paradigms
5. XML & Web Services
6. Distributed Computing
7. Embedded Systems
8. Genetic Algorithms