

MASTER OF COMPUTER APPLICATION (MCA) – INFORMATION TECHNOLOGY

Duration: 2 Years
Total Semesters: 4

SEMESTER – I

Code	Subject
MCAIT-101	Fundamentals of Information Technology
MCAIT-102	Programming in C
MCAIT-103	Computer Organization
MCAIT-104	Discrete Mathematics
MCAIT-105	Business Communication
MCAIT-106	Practical – C Programming Lab

Course Details (After Semester I)

This semester builds a strong foundation in IT concepts and programming. Students learn basics of computer systems, C programming, mathematical logic, and communication skills essential for IT professionals.

SEMESTER – II

Code	Subject
MCAIT-201	Data Structures
MCAIT-202	Database Management System (DBMS)
MCAIT-203	Object Oriented Programming (C++)
MCAIT-204	Operating System
MCAIT-205	Software Engineering
MCAIT-206	Practical – DBMS & C++ Lab

Course Details (After Semester II)

Focuses on core programming concepts, data handling, and system software. Students gain knowledge of databases, OOP concepts, operating systems, and software development lifecycle.

SEMESTER – III

Code	Subject
MCAIT-301	Web Technologies
MCAIT-302	Computer Networks
MCAIT-303	Java Programming
MCAIT-304	Mobile Application Development
MCAIT-305	Cloud Computing
MCAIT-306	Mini Project / Internship

Course Details (After Semester III)

Students explore modern technologies like web development, networking, Java, mobile apps, and cloud computing. Practical exposure is provided through projects or internships.

SEMESTER – IV

Code	Subject
MCAIT-401	Artificial Intelligence
MCAIT-402	Data Analytics
MCAIT-403	Cyber Security
MCAIT-404	Major Project
MCAIT-405	Viva Voce

Course Details (After Semester IV)

Final semester focuses on advanced IT topics like AI, data analytics, and cybersecurity. Students complete a major project and viva, gaining real-world industry experience.