

MCA in Computer Science and IT – Course Syllabus

Semester I

Advanced Data Structures and Algorithms
Software Engineering
Object Oriented Programming using Java
Data communication and Network / Computer Network and Cryptography
Mathematics for Computer applications

Semester II

Advanced Web Technology
Application Development using Python
Software Testing And Quality Assurance
Relational Database Management system
Network Security and Cryptography(A) or Object Oriented Modelling and Design Pattern(B)

Semester III

Machine Learning
DevOps
Business Intelligence / Research Methodology
Cloud Infrastructure and Service(A) or Advanced Software Engineering(B)
Presentation Skills and Academic writing

Semester IV

Internet of Things(A) or Software Security and Quality Management / Embedded Systems(B)
Artificial Intelligence & Machine Learning(A) or Principles of Deep Learning(B)
Final Project