

Bangalore University
MCA Syllabus

I Semester

Digital Logic
Computer Programming and Problem Solving
Business Data Processing (COBOL)
Discrete Mathematics and Its Applications
Probability and Statistics
Management Skills and HRD
C Programming Lab
COBOL Lab

II Semester

Data Structures
Operating Systems
Data Base Management Systems
Assembly Language Programming & ALP
Object Oriented Programming Concepts
Computational Numerical Methods
Data Structures using C++ Lab
Assembly Language Programming Lab

III Semester

Theory of Computation
Design and Analysis of Algorithms
Software Engineering
Computer Networks
Elective I
SE Mini Project
Operating System Mini Project
Soft Skills Lab

Elective Papers :

- 1) Computer Based Optimization Technique
- 2) Computer Graphics
- 3) Accounting & Financial Management

IV Semester

Internet Technologies
Object Oriented Analysis and Design Using UML
Data Warehousing and Business Intelligence
Software Architecture
Elective II
Enterprise Computing Mini Project
Java Programming Lab
Elective II Mini Lab

Electives:

- 1) Compiler Design
- 2) Network Programming
- 3) Multimedia Communications

V Semester

Elements of Artificial Intelligence
E-Commerce
Distributed And Parallel Computing
Network and Information Security
Elective III
Software Project Management Lab
Linux Programming Lab
Elective III Lab

Electives :

- 1) Simulation and Modeling
- 2) Embedded Systems
- 3) Bioinformatics
- 4) Neural Networks

VI Semester

Project Work and viva-voce