MASTER OF COMPUTER APPLICATIONS (M.C.A.)

Duration:

THREE Years - 6 Semesters

Eligibility:

60% marks in graduation with mathematics as one of the subjlects Plus Common Entrance Test and procedures conducted by Amrita University

Semester 1

Discrete Structures and Linear Algebra English for Professional Communication Computer Organization and Architecture Computer Programming Database Management System Problem Solving Techniques Cultural Education

Semester 2

Statistics and Numerical Methods Object Oriented Programming Data Structures Operating Systems Financial Accounting Java Programming

Semester 3

Computer Networks
Design and Analysis of Algorithms
Internet Programming
.net Technologies
Operations Research
Web Scripting

Semester 4
Software Engineering
Service Oriented Architecture
Data Mining
Elective I
Elective II

Minor Project

Semester 5
Desing Patterns
Software Project Management
Computer Graphics
Elective III
Elective IV

Semester 6
Major Project and Dissertation
Elective I/II
Advanced Computer Networks
Open Source Software
Agent Based Intelligent System
Advanced Databases
Structure and Interpretation of Computer Pr ograms
Computational Intelligence
Network Management and System Administration
Cryptography
Embedded Systems
Natural Language Processing
Multimedia Systems
Semantic Web Technologies

Elective III/IV

Data Analytics and Business Intelligence
Mobile Communications
Software Quality Assurance
Information Security
Parallel Computer Architecture & Pr ogramming
Computer Language Engineering
Introduction to Bioinformatics
Wireless Communication and Networks
Management Information Systems
Agile Programming
Information Retrieval
Distributed Databases

Electives listed above are only indicative. Actual Offering will depend on the number of students registering for the courses and availability of faculty.

School Administration reserves the right to modify the subjects / curriculum / detailed syllabus as per the topical needs or changes in trends of the academic stream or industry requirements.