



MASTER OF COMPUTER APPLICATION

PROGRAMME OVERVIEW

MCA course is designed to provide comprehensive knowledge of computer science with emphasis on applications together with a judicious blend of technical skills. A variety of learning tools are used for the acquisition of knowledge and skills. Role-play, Case study, Project work, Field experience, Assignments, Quiz, Seminars, Industry visits etc. are some of the methods used.

The defining features of the MCA curriculum provide exposure to cutting-edge technology given to the students. The duration of the MCA course extends over six semesters, spreading up equally over three academic years

Programme Name

Master of Computer Application

Programme Code

045

Degree Awarded

Master of Computer Application

Duration of the Programme

3 years, 6 semesters

Eligibility

The minimum qualification required to apply is a bachelor's degree from a recognized university. However the candidate should have studied Mathematics / Business Mathematics / Statistics / Information Technology / Computer Science / Computer Application.

The student must have qualified in a national level entrance test like PG CET / KMAT / or Jain Entrance Test.

Medium of Instruction / Examination

English

Study Campus

School of Commerce and Management

Jayanagar 9th block, Bangalore

Programme Timings

8:30 am - 4:00 pm

Programme Advisor

Prof. Achutha

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Examinations & Assessments

1. Internal tests
2. Assignments
3. Seminar presentation
4. Class tests
5. Preparatory theory and Practical examination
6. End term theory and Practical examination

Curriculum

Semester 1

Introduction to Information Systems
Problem Solving through C Programming
Computer Organization and Architecture
Linux Operating System
Organizations

Learning labs: Programming Lab - C
Linux Lab

Semester 2

Data Structure
Database Use and Configuration
Decision Making Tools and Techniques
Networking Use and Configuration
Principle of Web Designing
Accounting & Financial Management

Learning Labs: Data Structure Lab
Database Lab

Semester 3

Objected Oriented Programming using C++
Operating Systems
C# and .Net Technologies
Analysis and Design of Algorithms
Web Programming
Technical Writing and Communication

Learning Labs: OOPS Lab
Web Development Lab

Semester 4

Programming in Enterprise Architecture
User Interface and Design Implementation
Industry Oriented Software Engineering

Elective1:

Information & Network Security
Network Management
Network Operating System
Information Retrieval

Elective2:

Storage Area Network
Distributed Database
Mobile Computing
Geographical Information System or Distributed Computing

Learning Labs: Java Lab
Network Lab
Mini Project 1

Semester 5

Software Project Management
Service Oriented Architecture (SOA)
Object Oriented Modelling and Design

Elective 1:

Advance Computing Paradigm
Data Warehousing and Business Intelligence
Enterprise Resource Planning
Software Infrastructure Management

Elective 2:

Web 2.0 and Rich Internet Technologies
Software Maintenance and Testing
Data Mining and Business Analytics
Embedded System

Learning Labs: Software Design Lab
Advance Java Lab
Mini Project 2

Semester 6

Project Work

CAREER OPPORTUNITIES

1. Successful completion of the chosen programme, students will be well equipped for a career in software industry and Academia
2. Many top rated and widely recognized organizations in the IT industry offer good job opportunities and salary packages to fresh MCA candidates
3. Students can also work in allied fields of computer applications including Research and Teaching