



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

Semester1

Introduction to Information Systems
Problem solving through C Programming
Computer Organization and Architecture
Discrete Mathematics
Operating system Use and Configuration
Organizations
Programming Lab-C
Linux Lab

Semester2

Data Structures
Database Use and Configuration
Decision Support Systems
Networking Use and Configuration
OOPS with C++
Finance and Accounting Lab
Data Structure Lab
Database Lab

Semester 3

Operating systems
Programming in Java
Analysis and Design of Algorithms
Web Programming
Industry oriented Software Engineering
Operating system Lab

Java programming lab
Web Programming lab

Semester 4

User interface Design and Implementation
C# & .NET
Technologies
Advanced Java programming
Elective-I
Software Architecture
Network Lab
C# & .Net lab
Advanced Java Lab

Elective-I

Information and Network security
Storage Area Networks
Distributed computing
Server Infrastructure Management

Semester 5

Data Warehousing and Business Intelligence
Service Oriented Architecture
Object Oriented Modelling design
Elective-II
Elective-III
OOMD Lab
Web services Lab

Elective-II

Distributed Database
Mobile Computing
Advanced Computing Paradigm
Enterprise Resource Planning

Elective-III

Introduction to Data Analytics
Data Mining
Software Maintenance and Testing
Web 2.0 and Rich Internet Technologies

Semester 6

Final Project and Viva-Voce

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