



## MSc - INFORMATION TECHNOLOGY

## **PROGRAMME OVERVIEW**

Master of Science in Information Technology prepares individuals for leadership roles in the IT industry. The programme provides knowledge and skills across the entire range of topics in the industry - systems engineering, decision-making for IT, ethics and law, computer networking, database technologies, IT governance and strategy, Web development, and information assurance.

### **Programme Name**

MSc - Information Technology

### **Programme Code**

046

### **Degree Awarded**

MSc - Information Technology

### **Duration of the Programme**

2 years, 4 semesters

### **Eligibility**

The minimum qualification required to apply is a pass in degree examination in Computer Science or Applied Science or Information Technology or Bachelor of Computer Applications or B.E. in Computer Science & Engineering or Electrical & Electronics or Electronics and Communication from a recognized university.

### **Medium of Instruction / Examination**

English

### **Study Campus**

**School of Graduate Studies,**  
JC Road, Bangalore

### **Programme Timings**

8:30 am - 4:15 pm

### **Programme Advisor**

Prof. Achutha

**M:** +91 94488 10235

## 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

Advanced programming in C  
Computer Organization  
System programming  
Unix/Linux operating system  
Analysis design of Algorithms  
Communication Skills

**Learning labs:** Programming Lab  
Linux Lab

### Semester 2

Object oriented Programming & C++  
RDBMS  
Advanced computer Networks  
C# and .Net technologies  
Operation Research  
Principles of Business management

**Learning Labs:** RDBMS Lab  
C# & .Net Lab

### Semester 3

Object oriented Modeling & Design  
Programming in Enterprise Architecture  
Industry oriented Software engineering  
Elective 1  
Elective 2

**Learning Labs:** OOMD Lab  
Java & J2EE Lab

### Elective I:

Oracle DBA  
Information & Network security  
Storage Area Networks  
Network Management

### Elective II:

User Interface design  
Software maintenance & Testing  
Enterprise Resource Planning  
Web 2.0 & Rich Internet Technologies

**Semester 4**

Software Architecture

Service oriented Architecture

Data Warehousing

Elective III

**Learning Labs:** Advanced Lab

Project work

**Elective III:**

Advance Computing Paradigm

Distributed Databases

Mobile computing

Software Testing

**Advanced Lab (any 1)**

Network lab

Software testing lab

Advanced java lab

**CAREER OPPORTUNITIES**

Successful completion of this programme they are typically prepared to enter into managerial roles within the field of information technology. They may find employment in a wide variety of professional settings where computer systems, networks and databases are essential to a company's storage of information, communication and organization.