

MS - Information Technology

The MS Programme in Information Technology aims to impart the understanding and skills to develop advanced software systems to professional standards. It covers core skills in Information Technology (IT) at MS level, while letting students study specialist advanced topics. The curriculum is designed to provide the skills and knowledge to understand and be able to exploit the rapidly advancing technology associated with IT and, in particular, with its' use in a commercial environment.

Programme Duration

2 years, 4 Semesters

Curriculum Structure

Semester I

- Advanced Programming in C
- Computer Organization
- System Programming
- Unix / Linux Operating System
- Analysis design of Algorithms Programming Lab
- Linux Lab
- Communication Skills
- Case Studies in Information System
- Concept Review

Semester II

- Object Oriented Programming & C++
- RDBMS
- Advanced Computer Networks
- C# and .Net Technologies
- Operation Research
- RDBMS Lab
- C# & .Net Lab
- Principles of Business Management
- Technical Report Writing
- Concept Review



Semester III

- Object Oriented Modeling & Design using Rational Rose
- Programming in Enterprise Architecture
- Industry Oriented Software Engineering
- Elective I
- Elective II
- OOMD Lab
- Advanced Java Lab
- Project Management
- Computer Technology Management
- Inter Personal Skills & Team Building

Elective I

- Oracle DBA
- Database Modeling, Design & Programming
- Storage Area Networks
- Network Management
- Embedded Systems

Elective II

- User Interface Design
- Software Maintenance & Testing
- ERP-SAP R/3
- Data Warehousing
- Web 2.0 & Rich Internet Technologies

Semester IV

- Software Architecture
- Service Oriented Architecture
- Elective III
- Advanced Lab
- Project Work

Elective III

- Ad hoc & Grid computing
- Cloud Computing
- Network Optimization
- Database Tuning & Performance
- Wireless & Mobile Communication
- Soft Computing



Advanced Lab (Any one)

- Embedded System Lab
- Network Lab
- SAP Lab
- Software Testing Lab
- Advanced Java Lab