Curriculum

**Semester 1**

**Core Subjects (Theory)**
Language I  
English I  
Fundamentals of Mathematics  
Computer Fundamentals & Organization  
Programming in C  
Introduction to Linux  

**Practical**
C Programming Lab  
Linux Lab  
Soft Skills-I

**Semester 2**

**Core Subjects (Theory)**
Language II  
English II  
Operating System  
OOPS with C++  
Data Structures Using C  
System Configuration and Maintenance  

**Practical**
OOPS with C++ Lab  
Data Structures Lab  
Life and Career Skills

**Semester 3**

**Core Subjects (Theory)**
Information Security Fundamentals  
Mobile Web and Application Development  
Object Oriented Programming with Java  
Introduction to RDBMS  

**Departmental Elective (Theory)**
Designing Enterprise Networks /  
Routing and Switching Administration  

**Practical**
RDBMS - Lab  
Object Oriented Programming with Java - Lab  
Soft Skills-II  

**Project/Seminar**
Technical Seminar

*Subject to changes made by University*
Semester 4

Core Subjects (Theory)
- Ethical Hacking Fundamentals
- Cryptography Fundamentals
- Basic Android
- Mobile Device and Network Architecture

Departmental Elective (Theory)
- Mobile Value Added Services / Introduction to Cloud Technology

Practical
- Ethical Hacking – Lab
- Basic Android Lab
- Soft Skills-III

Semester 5

Core Subjects (Theory)
- Virtualization and Cloud Security
- Computer Forensics and Investigation
- Mobile Ecosystem and Business Models
- Advanced Android

Departmental Elective (Theory)
- IT Governance, Risk, & Information Security Management / Introduction to Web Technology

Practical
- Computer Forensics and Investigation - Lab Advanced Android - Lab

Project/Seminar
- Practical Training Seminar (PTS)

Semester 6

Core Subjects (Theory)
- Mobile, Wireless and VOIP Security
- Mobile Testing

Departmental Elective (Theory)
- Business Organization Basics / Professional Development Skills

Practical
- Mobile, Wireless and VOIP Security - Lab
- Mobile Testing - Lab

Project/Seminar
- Major Project