

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)

Introduction to RDBMS
Object Oriented Programming with Java
Basics of Server Operating System
Introduction to Web Technology

Departmental Elective (Theory/ Practical)

Information Security Fundamentals /
Software Engineering

Practical

RDBMS - Lab
OOPS with Java – Lab
Soft Skills-II

Project/Seminar

Technical Seminar

Semester 4

Core Subjects (Theory)

Designing Enterprise Networks
Ethical Hacking Fundamentals
Fundamentals of Datacenter
Introduction to Cloud Technology

Departmental Elective (Theory)

Server Network Infrastructure /
Cryptography Fundamentals

Practical

DEN – Lab
Ethical Hacking – Lab
Soft Skills-III

Project/Seminar

Mini Project

Semester 5

Core Subjects (Theory)

Linux Administration
Principles of Virtualization
Introduction to Windows Azure
Private Cloud Architecture

Departmental Elective (Theory)

Fundamentals of IT Infrastructure Library / Virtualization & Cloud Security

Practical

Linux Administration – Lab
Windows Azure – Lab

Project/Seminar

Practical Training Seminar (PTS)

Semester 6

Core Subjects (Theory)

Amazon Web Services (AWS)
Mobile, Wireless and VOIP Security

Departmental Elective (Theory)

Business Organization Basics /
Professional Development Skills

Practical

AWS - Lab
Mobile, Wireless and VOIP Security - Lab
Project/Seminar
Major Project

**Subject to changes made by University*