

Module Synopses

Semester One

1. Network Server Administration

This module teaches the installation, configuration, application and use of Network Server Operating Systems. Students are taught how to install, configure and manage users and computers over a network. Topics covered include server installation, configuration, management of accounts and resources, troubleshooting and network security.

2. Computer Communications

This module provides the basic concepts in data communication. It covers the necessary understanding of essential Networking equipment and techniques used in the implementation of data communication systems. The seven layer communication model is used as guideline to introduce networking concepts.

Semester Two

3. Computer Networking

This module covers the introduction of network protocols using TCP/IP, routing, switching and acquiring an understanding of router components and routing protocols. Topics include routing protocols, configuration and management of access lists and packet filtering.

4. Internetworking

This module covers LAN switching and design, the concept of VLANs, Wide Area Network technologies and design, protocols used to transport voice and data over wide areas. Students are also taught Network planning, managing, network load sharing and network security techniques.

5. Project

Students will be given an opportunity to plan and design a network project. This project will be based on the knowledge and skills learnt from their course of study. Students will be able to learn how to integrate their knowledge from their course into a practical application in Computer Networking.