

# Higher National Diploma in Network Engineering (HND-NE)

This programme is designed for individuals wishing to pursue careers as Networking Professionals as System Administrators, ICT Managers, System Engineers etc...

Students work with the latest technologies to develop a sound theoretical understanding and in-depth practical experience of advanced networking, including cutting-edge developments in mobile computing. They will also acquire expertise in design and management of modern distribution computer systems using the latest software and development technologies.

Opportunities exist within the Students to take **industrial examinations such as Cisco and ,Microsoft certifications.**

At the end of this programme, graduates will be competent in the skills and disciplines needed to succeed in the world of Network Technology in industries such as Telecommunication, Airline, Banking, ICT Services etc...

## Year 1

- Unit 1 - Introduction to Information Technology
- Unit 2 - Data Communication and Network Engineering – I
- Unit 3 - Programming Technology (VB.Net)
- Unit 4 - System Analysis and Design

- Unit 6 - Computer Systems Architecture
- Unit 7 - Operating Systems
- Unit 8 – Implementing Advanced IP Routing Protocols in Enterprises

## Year 2

- Unit 9 - Network Engineering -II (LAN, WAN)
- Unit 10 - Database Application
- Unit 11 - Unix System
- Unit 12 - Network Engineering -III (Wireless Networks)
- Unit 13 - Systems Programming
- Unit 16 - Organisation and Project Management

## Elective Modules

- Unit 14 - Implementing Advanced Wide Area Networks and Remote Access
- Unit 15 - Network Security
- Unit 17 - Application Development for Mobile Devices
- Unit 18 - Web Technologies

## Entry Requirement

- Minimum 6 credits passes including Mathematics and English in G.C.E. (O/L) – with sufficient knowledge in Information Technology at secondary level
- Minimum 3 passes at G.C.E. (A/L) or Certificate in Information Technology from recognised institution or professional body