ICT3051 Enterprise Networking

Unit Description

In this unit, students will examine the components, architectures and design criteria required when securing, operating, and troubleshooting enterprise networks. Students will consider wide area network (WAN) technologies, quality of service (QoS) mechanisms, and network management. Using simulators, students will implement advanced routing protocols and multi-area networks.

Techniques and issues relating to Virtual Private Networks (VPN) and software-defined networks are examined.

Credit Points	6 credit points
Duration	12 weeks (10 teaching weeks and 2 revision and assessment weeks)

Unit Learning Outcomes

On successful completion of this unit, students will be able to:

1. Design solutions and configurations for secure LANs and WANs.
2. Implement protocols to manage a network.
3. Optimise network performance.
4. Troubleshoot operational problems in large scale networks.