ICT3050 Routing and Switching

Unit Description

The unit focuses on switching technologies and router operations that support small-to-medium business networks.

It includes wireless local area networks (WLANs) and security concepts. Students will learn key switching and routing concepts, perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN.

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. Justify appropriate routing and switching protocols in common business environments.
2. Recommend enhancements for networking configurations to improve performance and redundancy.
3. Design solutions and configurations for secure medium-sized networks.
4. Explain the key concepts, issues, and approaches when designing and securing wireless LANs.