IT7003 Networking and Data Communications 2



Course Aim To provide students with skills in building LANs, VLANs and WANs using networking techology. Students will configure local networks and manage switches. LAN and VLAN building are achieved using the protocols VTP, STP, and RSTP. Students obtain skills in Wifi networks and access point configuration for Wifi networks. Students are

introduced to WAN protocols and build a WLAN using PPP and Frame Relay.

Short Title	Networking 2	Version	5
Faculty	EDICT	Effective From	February 2018
		Level	7
Credits	15	Student Contact hrs	90
Pre-requisites	IT6003 or ITB5003	Self-directed hrs	60
Co-requisites	None	Other directed hrs	0
Anti-requisites	None	Total learning hrs	150

Learning	On successful completion of this course, students will be able to:	NQF Sub-strand
Outcomes	1 Describe the protocols that allow a VLAN to be implemented	Theoretical Understanding
	2 Implement and troubleshoot the VLAN Trunking Protocol (VTP), Inter-VLAN Routing and Spanning Tree Protocol (STP).	Practical Application of knowledge
	3 Describe the protocols that allow a WAN to be implemented	Theoretical Understanding
	4 Plan and configure LAN and WAN network connections and differentiate between WAN and LAN equipment and protocols	Practical Application of knowledge
	5 Design a network security policy by using Access Control Lists (ACLs) and IP addressing services to implement this policy	Generic, Problem Solving and Analytical Skills