APPROVED

IT6003: Networks and Data Communications

Course Details

Course Code:	IT6003
Course Title:	Networks and Data Communications APPROVED
Short Title:	Networking 1
Course Level::	Level 6
Valid From::	2022/2023 Sem 2

Credits::	15

Owner:	ICT

Assessment Method:	Achievement

Course Aim	
	To provide students with an understanding of Computer Networking and the practical skills to implement and troubleshoot small to medium computer networks. Students will configure networks and manage the routers. Students will be introduced to the fundamental building blocks of a communication system and to a variety of networking technologies.

CILO	
On Completion of this course, the learner will be able to	
#	**Learning Outcome Description**
1	Demonstrate detail knowledge of the fundamentals, concepts and technologies of the TCP/IP and OSI networking models.
2	Design and implement an IP addressing scheme using VLSM.
3	Configure, test and verify network devices.
4	Demonstrate detail knowledge of different routing protocols that operate in the network.
5	Implement a network infrastructure to a detailed use case.

Requisites
No requisites

Examinations	
Assessment Type Examination (Practical)	
Assessment Type Examination (Unseen)	
Assessment Type Examination (Unseen)	

No Other Controlled Assessments

Uncontrolled Assessments
Assessment Type Practical Project

Affiliated Entities

Entity Code	Entity Title	Entity Version	Entity Type
ICT8011	Bachelor of Information and Communications Technology (Programming Major)	1	Programme
ICT8011	Bachelor of Information and Communications Technology (Programming Major)	2	Programme
ENT6060	Diploma of Engineering Technology (Communications and Networks)	1	Programme
ENT7060	Associate Degree in Engineering Technology (Communications and Networks)	1	Programme
ENT8060	Bachelor of Engineering Technology (Communications and Networks)	2	Programme
ICT6010	Diploma in Information and Communications Technology	4	Programme
ICT6025	Diploma in Cloud Computing	1	Programme
ICT7011	Associate Degree in Information and Communications Technology (Programming Major)	1	Programme
ICT7022	Associate Degree in Information and Communications Technology (Information Systems)	1	Programme
ICT7041	Associate Degree in Information and Communications Technology (Database Systems Major)	1	Programme
ICT7051	Associate Degree in Information and Communications Technology (Cyber Security)	1	Programme
ICT8010	Bachelor of Information and Communications Technology (Programming Major)	2	Programme
ICT8020	Bachelor of Information and Communications Technology (Management Information Systems Major)	2	Programme
ICT8021	Bachelor of Information and Communications Technology (Information Systems Major)	1	Programme
ICT8022	Bachelor of Information and Communications Technology (Information Systems Major)	1	Programme
ICT8030	Bachelor of Information and Communications Technology (Networking Major)	2	Programme
ICT8031	Bachelor of Information and Communications Technology (Networking Major)	1	Programme
ICT8040	Bachelor of Information and Communications Technology (Database Systems Major)	3	Programme
ICT8041	Bachelor of Information and Communications Technology (Database Systems Major)	1	Programme
ICT8050	Bachelor of Information and Communications Technology (Cyber Security Major)	2	Programme
ICT8051	Bachelor of Information and Communications Technology (Cyber Security Major)	2	Programme
No Code Yet	Copy Of Associate Degree in Engineering Technology (Communications and Networks)	1	Programme
No Code Yet	Copy Of Bachelor of Information and Communications Technology (Cyber Security Major)	1	Programme
No Code Yet	test Bachelor of Information and Communications Technology	1	Programme