IT 003



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.

Short Title	Networking 1	Version	6
Faculty	EDICT	Effective From	February 2016
		Indicative NQF Level	6
Credits	15	Student Contact hrs	90
Pre-requisites		Self-directed hrs	60
Co-requisites		Other directed hrs	0
Anti-requisites		Total learning hrs	150

Learning	On successful completion of this course, students will be able to:	NQF Sub-strand
Outcomes	1 Explain the fundamentals, concepts and technologies of the TCP/IP and OSI networking models.	Theoretical Understanding
	2 Design and implement an IP addressing scheme using VLSM.	Generic, Problem Solving and Analytical Skills
	3 Configure, test and verify network devices.	Practical Application of knowledge
	4 Explain how different routing protocols operate in the network.	Theoretical Understanding
	5 Implement a network infrastructure to a detailed use case.	Generic, Problem Solving and Analytical Skills