IT8303	Computer Networking 3

Course Aim To introduce the core security concepts and skills needed for the installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and services.

Short Title		Version	3
Faculty	EDICT	Effective From	February 2016
		NQF Level	8
Credits	15	Student Contact hrs	60
Pre-requisites	IT7003 (ITB6003)	Self-directed hrs	60
Co-requisites	none	Other directed hrs	30
Anti-requisites	none	Total learning hrs	150

Learning Outcomes

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

		NQF Sub-strand
1	Describe the security threats facing modern network infrastructures.	Theoretical Understanding
2	Secure network device access and implement AAA on network devices.	Practical Application of knowledge
3	Analyse threats and mitigate attacks to networks using various techniques.	Practical Application of knowledge
4	Design and implement secure network management and reporting, and administer effective security policies.	Generic, Problem Solving and Analytical Skills
5	Design and implement systems using the Cisco IOS firewall and IPS feature sets.	Practical Application of knowledge
6	Design and implement site-to-site IPSec VPNs.	Practical Application of knowledge