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 Business 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	On successful completion of this course, students will be able to:	NQF Sub-strand
Outcomes	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	Generic, Problem
	administer effective security policies.	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