Module Details	
Module Code:	PROG C7Z25
Full Title:	Introduction to Networking APPROVED
Valid From:	Semester 1 - 2019/20 (June 2019)
Language of Instruction:	English
Duration:	1 Semester
Credits:	5
Module Owner::	Paula Keane
Departments:	Unknown
Module Description:	The aim of this module is to introduce students to the fundamentals of data communications and networking.

Module Learning Outcome	
On successful completion of this module the learner will be able to:	
#	**Module Learning Outcome Description**
MLO1	Show how components communicate and exchange data.
MLO2	Identify network components and topologies.
MLO3	Explain the fundamentals of networking and the OSI 7 layer model.
MLO4	Discuss guided and unguided media types. Apply the requirements of network structured cabling.
MLO5	Discuss the Ethernet protocol.
MLO6	Configure a Local Area Network and exchange data.

Pre-requisite learning
Module Recommendations *This is prior learning (or a practical skill) that is strongly recommended before enrolment in this module. You may enrol in this module if you have not acquired the recommended learning but you will have considerable difficulty in passing (i.e. achieving the learning outcomes of) the module. While the prior learning is expressed as named DkIT module(s) it also allows for learning (in another module or modules) which is equivalent to the learning specified in the named module(s).*
No recommendations listed

Module Indicative Content
Media Guided and Unguided media, coaxial, UTP, Fibre, radio waves, micro waves, wireless, terminating UTP cables, Structured Cabling.
Network Protocols and Standards OSI and TCP/IP model.
Layer two protocols Ethernet.
Networking Networking fundamentals, topologies, types, switching. Configure a LAN.
Data communications Data communications components, data representation and flow.

Module Assessment

Assessment Breakdown	%
Course Work	50.00%
Final Examination	50.00%

Module Special Regulation

Assessments

Full Time

Course Work

Assessment Type	Written Report	**% of Total Mark**	30
Marks Out Of	100	**Pass Mark**	40
Timing	Every Second Week	**Learning Outcome**	1,2,3,4,5,6
Duration in minutes	120		

Assessment Description
6 reports, each worth 5%, covering what is completed in practical.

Assessment Type	Class Test	**% of Total Mark**	20
Marks Out Of	100	**Pass Mark**	40
Timing	Every Second Week	**Learning Outcome**	1,2,3,4,5
Duration in minutes	120		

Assessment Description
4 MCQ tests based on lectures and labs, each worth 5%, starting in week 4

No Project

No Practical

Final Examination

Assessment Type	Formal Exam	**% of Total Mark**	50
Marks Out Of	100	**Pass Mark**	40
Timing	End-of-Semester	**Learning Outcome**	2,4,5
Duration in minutes	120		

Assessment Description
End of semester final exam

Part Time

Course Work			
Assessment Type	Written Report	**% of Total Mark**	30
Marks Out Of	100	**Pass Mark**	40
Timing	Every Second Week	**Learning Outcome**	1,2,3,4,5,6
Duration in minutes	120		

Assessment Description
6 reports, each worth 5%, covering what is completed in practical.

Assessment Type	Class Test	**% of Total Mark**	20
Marks Out Of	100	**Pass Mark**	40
Timing	Every Second Week	**Learning Outcome**	1,2,3,4,5
Duration in minutes	60		

Assessment Description
4 mcq tests each worth 5 % starting in week 4

No Project

No Practical

Final Examination			
Assessment Type	Formal Exam	**% of Total Mark**	50
Marks Out Of	100	**Pass Mark**	40
Timing	End-of-Semester	**Learning Outcome**	2,4,5
Duration in minutes	0		

Assessment Description
Final exam

Reassessment Requirement

A repeat examination
Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.

Module Workload

Workload: Full Time

Workload Type	Contact Type	Workload Description	Frequency	Average Weekly Learner Workload	Hours
Tutorial	Contact	No Description	Every Week	1.00	1
Practical	Contact	No Description	Every Week	2.00	2
Lecture	Contact	A lecture discussing the fundamentals of data communications and networking	Every Week	1.00	1
Directed Reading	Non Contact	No Description	Every Week	2.00	2
Independent Study	Non Contact	No Description	Every Week	2.00	2
				Total Weekly Learner Workload	8.00
				Total Weekly Contact Hours	4.00

Workload: Part Time

Workload Type	Contact Type	Workload Description	Frequency	Average Weekly Learner Workload	Hours
Practical	Contact	One practical per week of three hours duration	Every Week	3.00	3
Directed Reading	Non Contact	No Description	Every Week	2.00	2
Independent Study	Non Contact	No Description	Every Week	3.00	3
				Total Weekly Learner Workload	8.00
				Total Weekly Contact Hours	3.00

Module Resources

This module does not have any article/paper resources

This module does not have any other resources