

Module Title:	Networking
Language of Instruction:	English
Credits:	10
NFQ Level:	6
Module Delivered In	1 programme(s)
Teaching & Learning Strategies:	Combination of lectures and practical laboratory sessions. Lectures will take the form of traditional theory and tutorials. Laboratory sessions take the form of individual & group work.
Module Aim:	To provide the student with: 1. the skills necessary to build simple computer networks. 2. the basic concepts of networking. 3. the capability to understand basic network device configuration
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Describe and compare network models
LO2	Examine IOS (Internet Operating System) basic features
LO3	Identify network media and construct network cables
LO4	Identify and explain IP addresses
LO5	Explore and construct LANs and WANs
LO6	Test and troubleshoot computer networks
Pre-requisite learning	
Module Recommendations	
<i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules	
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements	
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

Module Content & Assessment

Indicative Content
Networking Basics Network devices, types of networks, Internet (15%)
Network Models and Protocols Network standards and rules, OSI & TCP/IP models (20%)
Network OS Router and Switch IOS architecture & commands (30%)
OSI Lower Layers Physical, Data Link, Network (35%)

Assessment Breakdown	%
Continuous Assessment	100.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Two practical examinations to demonstrate the achievement of the learning outcomes	1,2,3,4,5,6	40.00	n/a
Practical/Skills Evaluation	Weekly practical/laboratory work is designed to allow students to demonstrate the achievement of the learning outcomes	1,2,3,4,5,6	20.00	n/a
Examination	Written Test Block 1: The students will be given a written test to assess their knowledge of network devices and protocols	1,2,5	20.00	n/a
Examination	Written Test 2: The students will be given a written test to assess their knowledge of network media & network operating system	3,4,6	20.00	n/a

No Project
No Practical
No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	30 Weeks per Stage	1.00
Laboratory	30 Weeks per Stage	3.00
Estimated Learner Hours	30 Weeks per Stage	2.67
Total Hours		200.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KWCAP_C	Higher Certificate in Computing	1	Mandatory