



MODULE SPECIFICATION

Part 1: Information			
Module Title	Networking and Security II		
Module Code	UFCFXM-15-2	Level	Level 5
For implementation from	2018-19		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Computer Science and Creative Technologies
Department	FET Dept of Computer Sci & Creative Tech		
Contributes towards			
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Overview: This topic builds on the previous module 'Networking and Security' in relation to the basic networking infrastructure, and network infrastructure solutions.</p> <p>Educational Aims: The primary focus within this module is to build on the practical elements of networking and security. It gives the apprentices the knowledge and skills that they need for the planning, designing, implementation and management of computer networks and understanding of the network infrastructure capabilities and limitations.</p> <p>Outline Syllabus: The syllabus includes:</p> <p>Network design</p> <p>Network topologies</p> <p>Reviewing business and technical requirements</p> <p>Issues that may arise in the day to day operation of networks, including network security risks</p>

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and their remediation

Plan a computer system network based upon estimated business data traffic needs that will meet the future business needs

Policy setting e.g. Service Level Agreement (SLA)

An introduction into the practical elements of networking

Teaching and Learning Methods: Introductory lectures are supported by seminars, case studies, visits and practical workshops. In addition this module will be supported by interactive forums and learning tools.

150 hours study time of which 36 hours will represent scheduled learning. Scheduled learning includes lectures, seminars, tutorials, demonstration, practical classes and workshops; external visits; supervised time in studio/workshops.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion. Apprentice study time will be organised each week with a series of both essential and further readings and preparation for practical workshops. It is suggested that preparation for lectures, practical workshops, session delivery and seminars will take 7 hours per week.

Contact Hours:

36 hours scheduled learning

114 hours research, independent study and preparation for assessment work

Scheduled learning will typically include lectures, seminars, supervision, external visits and an interactive forum.

All apprentices are expected to attend a series of tutorials.

Part 3: Assessment

This module is assessed by a combination of techniques: a presentation (30 minutes) and a report (1500 words).

Component A – Presentation (30 Minutes)

Apprentices are expected to (individually, or in groups) deliver a 30 minute presentation. Apprentices will present the outcomes of practical tasks that support the core learning objectives of a network engineer. Based on a given scenario/requirement, apprentices will need to present a planned computer system network, based on estimated business data traffic, business and technical requirements, identifying and selecting appropriate network technologies and topologies.

Component B – Report (1500 Words)

Apprentices will be expected to produce a 1500 word report. Apprentices will have to identify network security risks, remediation, and issues that may arise daily. It is expected that apprentices will demonstrate depth of academic reading/research, identifying current security risks, reflecting on real life case studies.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component B		40 %	Report (1500 words)
Presentation - Component A	✓	60 %	Presentation (30 mins) (in-class)

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Resit Components	Final Assessment	Element weighting	Description
Report - Component B		40 %	Report (1500 words)
Presentation - Component A	✓	60 %	Presentation (30 mins) (in-class)

Part 4: Teaching and Learning Methods									
Learning Outcomes	On successful completion of this module students will be able to:								
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	Hours to be allocated	150							
	Allocated Hours	150							
Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/index.html</p>								