



MODULE SPECIFICATION

Part 1: Information			
Module Title	Business Security		
Module Code	UFCFSM-15-1	Level	Level 4
For implementation from	2019-20		
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		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Educational Aims: This topic provides apprentices with an introduction to the fundamental principles of Information Technology Security and Risk Management at the organisational level. They will learn critical information and cyber security principles and management. The apprentices will address the role of hardware, software, processes, communications, applications, people and policies and procedures with respect to organisational information security.</p> <p>Outline Syllabus: Develop and complete a security risk assessment</p> <p>Security threats and hazards to information systems or services e.g. Cloud services</p> <p>Concepts of threat, hazard and vulnerability</p> <p>What risk is and how risks are usually characterised (likelihood and impact)</p> <p>Commonly used risk tools e.g. a risk register</p> <p>Inherent asymmetric nature of cyber security threats</p> <p>Capability, opportunity & motive of threats, reflecting on typical hazards and example security</p>

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objectives

Common vulnerabilities in computer networks and systems e.g. un-secure coding and unprotected networks

Assurance concepts i.e. difference between 'trusted' and 'trustworthy' and explain what assurance is for information security

Main approaches to assurance i.e. intrinsic, extrinsic, design & implementation, operational policy and process, giving examples of how these might be applied at different stages in the lifecycle of a system.

Technical and administrative mitigation approaches

Security models

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.

Scheduled learning will typically include lectures, seminars, supervision, external visits and 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 an e-portfolio.

Assessment 1: Presentation (Component A)

Apprentices will carry out a 30-minute research based presentation that discusses core cyber security theory. Apprentices are expected to demonstrate understanding of the concepts of threats, hazards and vulnerability, inherent asymmetric nature of cyber security, technical and administrative mitigation approaches, and the need for a comprehensive security model. It is expected that apprentices will demonstrate wide reading, professionalism, strong communication skills (both verbal and written) as well as effective organisational/time management skills.

Assessment 2: E-Portfolio (Component B)

Apprentices are expected to produce a small e-portfolio, demonstrating basic technical skills in cyber security. This will include core skills such as; creating (for a simple system) a security risk assessment, undertaking a security risk assessment, and proposing basic advice on remedies/preventive measures. Apprentices will also need to analyse and evaluate security threats and hazards to planned and installed information systems or services.

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First Sit Components	Final Assessment	Element weighting	Description
Portfolio - Component B	✓	40 %	E-portfolio
Presentation - Component A		60 %	Presentation (in-class) (30 minutes)
Resit Components	Final Assessment	Element weighting	Description
Portfolio - Component B	✓	40 %	E-portfolio
Presentation - Component A		60 %	Presentation (in-class) (30 minutes)

Part 4: Teaching and Learning Methods																			
Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:																		
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Contact Hours	Independent Study Hours:																		
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Hours to be allocated	150																		

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	Allocated Hours	150
Reading List	<i>The reading list for this module can be accessed via the following link:</i> https://uwe.rl.talis.com/index.html	

Part 5: Contributes Towards

This module contributes towards the following programmes of study: