



MODULE SPECIFICATION

Part 1: Information			
Module Title	Emerging Technologies		
Module Code	UFCFKE-30-3	Level	Level 6
For implementation from	2019-20		
UWE Credit Rating	30	ECTS Credit Rating	15
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>Features: Module Entry requirements: If offered as CPD or stand alone</p> <p>Educational Aims: See Learning Outcomes</p> <p>Outline Syllabus: An overview of current emerging Computing technologies and concepts e.g.</p> <p>Artificial intelligence</p> <p>Robotics</p> <p>Cloud computing</p> <p>IoT</p> <p>Quantum computing</p> <p>Ubiquitous computing</p> <p>Nanotechnology</p>

STUDENT AND ACADEMIC SERVICES

Autonomic computing

Key areas for discussion and review :

Historical background

Future development potential

Ethical, legal and moral issues involved

Commercial considerations

The need for it and the sector/s in which it could be applied

Limiting factors

Teaching and Learning Methods: Introductory lectures (20%) are supported by seminars (30%), case studies (5%), and practical workshops (45%). In addition this module will be supported by interactive forums and learning tools.

300 hours study time of which 108 hours will represent scheduled learning.

Independent learning includes hours engaged with essential reading, assignment preparation and completion. Student study time will be organised each week with a series of both essential and further readings and preparation for practical workshops.

Part 3: Assessment

A range of assessment techniques will be employed to ensure that learners can meet the breadth of learning outcomes presented in this module alongside the ability to demonstrate transferable skills e.g. communication skills.

Open book examination: of the different aspects and application of the two emerging technologies researched.

Report: to include evidence of the investigation of the different aspects involved with each of the technologies, e.g. ethical, moral, legal and social issues.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component B		60 %	Report (3000 words)
Examination - Component A	✓	40 %	2 hour open book examination (final assessment)
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		60 %	Report (3000 words)
Examination - Component A	✓	40 %	2 hour open book examination (final assessment)

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Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th style="text-align: left;">Module Learning Outcomes</th> <th style="text-align: left;">Reference</th> </tr> </thead> <tbody> <tr> <td>Discuss and evaluate new and developing technologies and their application within industry</td> <td>MO1</td> </tr> <tr> <td>Identify and critically analyse the ethical, legal and moral issues associated with these technologies</td> <td>MO2</td> </tr> <tr> <td>Critically evaluate the social implications that these technologies may impose</td> <td>MO3</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Discuss and evaluate new and developing technologies and their application within industry	MO1	Identify and critically analyse the ethical, legal and moral issues associated with these technologies	MO2	Critically evaluate the social implications that these technologies may impose	MO3								
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Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://uwe.rl.talis.com/index.html</p>																

Part 5: Contributes Towards
<p>This module contributes towards the following programmes of study:</p> <p>Applied Computing {Top-Up} [Sep][PT][UCW][2yrs] BSc (Hons) 2018-19</p>