STUDENT AND ACADEMIC SERVICES

UWE Bristol | University of the West of England

MODULE SPECIFICATION

Part 1: Information			
Module Title	Emerging Technologies		
Module Code	UFCFKE-30-3	Level	Level 6
For implementation from	2020-21		
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
Features: Module Entry requirements: If offered as CPD or stand alone   **Educational Aims:** See Learning Outcomes   **Outline Syllabus:** An overview of current emerging Computing technologies and concepts e.g.   Artificial intelligence   Robotics   Cloud computing   IoT   Quantum computing   Ubiquitous computing   Nanotechnology

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 (Online) - Component A	✓	40 %	Online multiple choice exam (2 hours)
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		60 %	Report (3000 words)
Examination (Online) - Component A	✓	40 %	Online multiple choice exam (2 hours)

Part 4: Teaching and Learning Methods

Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:	
	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

Contact Hours	**Independent Study Hours:**	
	Independent study/self-guided study	192
	Total Independent Study Hours:	192
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	108
	Total Scheduled Learning and Teaching Hours:	108
	Hours to be allocated	300
	Allocated Hours	300
Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/index.html	

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Applied Computing {Top-Up} [Sep][FT][UCW][1yr] BSc (Hons) 2020-21

Applied Computing {Top-Up} [Sep][PT][UCW][2yrs] BSc (Hons) 2019-20