Module Specification

Emerging Technologies

Version: 2023-24, v2.0, 16 Mar 2023

Contents

Part 1: Information

Module title: Emerging Technologies

Module code: UFCFET-15-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Computer Sci & Creative Tech

Partner institutions: None

Delivery locations: Not in use for Modules

Field: Computer Science and Creative Technologies

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This research-led module is designed to raise awareness of current and upcoming Emerging Technologies, and review their advancements, technicalities and future impact on humanity. As well as researching the technical capabilities and future possibilities, you are also required to review the potential adverse impact and challenges faced with the deployment and adoption of emerging technologies.

Features: Not applicable

Educational aims: To investigate, evaluate and analyse currently emerging computing technologies and concepts.

Outline syllabus: Current emerging computing technologies and concepts.

For each topic, key areas for discussion and review are:

Current and future developments

Ethical, legal and moral issues involved

Commercial considerations

The industry requirement and the sector/s in which it could be applied

Limiting factors

Part 3: Teaching and learning methods

Teaching and learning methods: Throughout the module, a combination of lectures, group work, and research based tasks will be used to cover the theoretical underpinning of the module. Opportunities for guest lectures and/or visits will be explored to enhance the module, exploring new and upcoming technologies.

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

MO1 Discuss and evaluate new and developing technologies and their application within industry

MO2 Identify and critically evaluate the ethical, legal and moral issues associated with these technologies

MO3 Critically evaluate the social implications that may result as new technologies emerge.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 96 hours

Face-to-face learning = 54 hours

Total = 150

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://rl.talis.com/3/uwe/lists/1605CD68-41A1-2E9E-3B76-74BBAB62A393.html

Part 4: Assessment

Assessment strategy: This module is assessed by a combination of techniques: a report, and an exam.

The report allows students to research and critically analyse the ethical, moral, social, and legal issues of emerging technologies.

The final exam is used to assess students' knowledge and understanding of new and developing technologies and their application within industry.

Tutor-lead formative feedback will be available throughout the module.

Assessment components:

Examination (First Sit)
Description: Examination (2 hours)
Weighting: 30 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1

Report (First Sit)

Description: Report (2000 words)

Weighting: 70 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3

Examination (Resit)

Description: Examination (2 hours)

Weighting: 30 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1

Report (Resit)

Description: Report (2000 words)

Weighting: 70 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Applied Computing[Sep][FT][UCW][3yrs] BSc (Hons) 2021-22