Module Specification

Integrated Case Studies

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

Contents

Part 1: Information

Module title: Integrated Case Studies

Module code: UFCFP5-15-3

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: The over-arching aim of this module is to help develop a professional focus and an awareness of the legal, ethical and social context in which technology professionals operate. To achieve this aim, the module examines the role of computer systems within real organisations and requires the student to reflect on their own experience in this regard.

Features: Not applicable

Educational aims: See Learning Outcomes.

"In addition the educational experience may explore, develop, and practise but not formally discretely assess the following":

Communication skills

Outline syllabus: The module has no specific syllabus. It is run as a series of guest lectures, as described below. Speakers are given guidance from the module leader to ensure that the year's current themes are covered by the talks. Themes will vary from year to year but will include topics such as: the place of innovation within an established organisation, how to ensure excellence, why high tech companies fail, the role of the professional bodies in the IT sector. The module leader will ensure that legal, social, ethical and professional issues are covered by a proportion of the talks.

Students are expected to prepare for each talk by researching the background of the organisation to which the speaker belongs. After the lectures, tutor-led group discussion ensures that the students extract meaning from the talks and apply that to their own experience. The module has the additional benefit that it gives students the opportunity to meet and network with local and national employers who are keen to talk about jobs.

Part 3: Teaching and learning methods

Teaching and learning methods: At the start of the module students will be required to prepare and present an talk to the second year students on the subject of their Placement Year, or an equivalent topic (such as part-time employment or a volunteering activity) approved by the module leader. This helps develop the students' self-assessment and presentation skills.

For the most part, the course will be delivered through seminars and invited lectures.

External speakers are very willing to give a seminar on a specialist topic relating to their work. Some example titles from proposed talks are:

Why High Tech. Companies Fail – Deloitte; Telecommunication Protocols in a Commercial Context – Motorola; 40% Correct is not Enough, a Programmer's View – Cisco; Subsea Control at 200 metres - ABB SeaTech; Car Parking at JFK - GWE contractors; the Role of the BCS in the IT sector - BCS representative; How we Sell Software Tools – Microsoft; Life as a Software Contractor – UWE graduate; Enterprise Wide Data Models – Why are they needed – Morgan Stanley; Value Added Telecommunications Services – Lucent; Developing Mobile Networks - O2. Customer Support - HP Services; Working with Boeing - Ansae Systems. Data protection, privacy and freedom of information - BCS

The Guest Lecturers are briefed by the Module Leader beforehand so that they can weave into their presentation one or more general themes of current relevance, such as: Developing for Safety Critical Systems, Dealing with Financial Failure, Designing Software for Multi-Core Processors, Ethical and Legal issues, Professional Responsibility, International Teamwork. Following presentations, the tutor will engage with the students to consider the implications for a range of factors including legal, ethical and professional issues etc. as appropriate to the particular presentation.

The seminars will be introduced and hosted by the students who then guide the following discussions. Students will be required to produce a summary and critical commentary on a selection of case studies. These will then be offered as the assessment portfolio.

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

> **MO1** Articulate an integrated view of the role of computer systems in the modern world and modern organisations.

> **MO2** Appraise the design, implementation and marketing of an existing product or process with a view to making recommendations for improvement

MO3 Appreciate the commercial judgement and financial estimations required during the construction of a business plan.

MO4 Identify the legal, ethical and professional issues raised by different case studies.

MO5 Participate actively in seminars with colleagues representing different viewpoints and responsibilities

MO6 Present ideas to peers and others.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ufcfp5-15-3.html

Part 4: Assessment

Assessment strategy: This module has a professional focus and the use of the presentation as part of the assessment is designed to improve and assess this increasingly significant professional skill.

A portfolio of written reports is also required to assess the student's critical engagement, both with the delivery of the module and of the implications of the topics presented and discussed. An essential component of this portfolio is the consideration of the wider context of the technologies encountered, including the legal, ethical and social implications of their development and use.

Assessment components:

Presentation (First Sit)

Description: Presentation (20 mins)

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2, MO6

Portfolio (First Sit)

Description: Portfolio of reports (approx 3,000 words)

Weighting: 75 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5

Presentation (Resit)

Description: Presentation (20 mins)

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Portfolio (Resit)

Description: Portfolio of reports (approx 3,000 words)

Weighting: 75 %

Final assessment: No

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Digital and Technology Solutions (Business Analyst) {Apprenticeship-UCW}
[Sep][FT][UCW][4yrs] BSc (Hons) 2020-21

Computing {Dual} [Aug][FT][Taylors][3yrs] - Not Running BSc (Hons) 2021-22

Computing {Dual} [Mar][FT][Taylors][3yrs] - Not Running BSc (Hons) 2021-22