



Module Specification

Group Software Development

Version: 2023-24, v1.0, 07 Jun 2023

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Part 1: Information

Module title: Group Software Development

Module code: UFCE4J-15-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

College: College of Arts, Technology and Environment

School: CATE School of Computing and Creative Technologies

Partner institutions: None

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 module covers software development-specific project management and provides the opportunity for students to apply their project management skills to a group project.

Features: Not applicable

Educational aims: The aim of this module is to apply the project management skills developed in TB1 within a software development group context.

Outline syllabus: Selection, evaluation and use of CASE tools.

Software cost estimation both algorithmic and non-algorithmic methods.

Critical reflection on current software engineering practices.

Organisation and management of a software development team.

The Software Requirements Specifications Document.

Documentation issues and change management using traceability techniques.

Quality and configuration management issues.

Risk management

Computer supported collaborative work.

Application of system/software modelling, design and construction techniques to a group project.

Legal, Social, Ethical and Professional issues.

Usability issues.

Part 3: Teaching and learning methods

Teaching and learning methods: 2 hrs per week delivered over 12 week including lectures and tutorials.

Scheduled learning:

This module gives the students the opportunity to extend, consolidate and apply the knowledge they have gained in the prerequisite modules. The focus of the module is

on the completion of a group project. Teaching and learning is largely driven by the requirements of the project.

This module will be taught by a combination of lectures and tutorials in every weekly session. Students will receive learning material in advance of the weekly classes and will be expected to use the material to prepare for class. The class based sessions will therefore allow for increased interaction during lecture/tutorials in addition to raising potential knowledge exchange between students with industrial background and tutors.

Independent learning:

Group work will be used to enable the students to gain practice of real software construction. The group will be student led, with the tutor acting in the role of client and user. A member of staff will act as a customer/client, supplying a minimal specification and providing feedback on the project development. The students will then be expected to progress this minimal specification into, at least, the design of a working software product with interim deliverables appropriate to accepted practice. Both management and development practices will need to be utilised. Appropriate communication and coordination will take place among students and tutors, using the facilities offered by Blackboard. In addition, the students will be expected to research, evaluate and then select new technology for use in the group development environment.

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

MO1 Employ appropriate software development process models, quality management standards, methods and tools.

MO2 Demonstrate critical understanding and consideration of - amongst others - legal, social, ethical and professional issues when synthesising and documenting the development of a software.

MO3 Provide critical evaluation and reflection of the experience in undertaking a group-based software development project.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 126 hours

Face-to-face learning = 24 hours

Total = 150

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link

Part 4: Assessment

Assessment strategy: The assessment strategy for this module consists of the following tasks:

A project proposal to be submitted early in the module delivery and will be assessed on a pass-fail basis. The emphasis will be providing feedback on the detail of the proposal. This is a group submission. Each group will be required to keep a record of meetings and activities so that active members of group can be identified.

The process of the software development project will result in a portfolio comprising of various documents that describe, test and evaluate the stages of project implementation and deliverables. Within each group, members will take individual roles and responsibilities for certain tasks. A peer review process and activity log will be used to establish individual contributions to the software development project.

Assessment at resit is the same has the same profile as the first sit assessment. Groups will be managed appropriately.

Assessment tasks:**Written Assignment (First Sit)**

Description: Project proposal (pass/fail)

Weighting:

Final assessment: No

Group work: Yes

Learning outcomes tested: MO2

Portfolio (First Sit)

Description: Portfolio of software development activities

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3

Written Assignment (Resit)

Description: Project proposal (pass/fail)

Weighting:

Final assessment: No

Group work: Yes

Learning outcomes tested: MO2

Portfolio (Resit)

Description: Portfolio of software development activities.

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Information Technology [Villa] MSc 2023-24

Information Technology [Frenchay] MSc 2023-24

Information Technology [Frenchay] MSc 2023-24