



Module Specification

Project Management

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Part 1: Information

Module title: Project Management

Module code: UFCFPJ-15-M

Level: Level 7

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

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: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes.

Outline syllabus: Relationship between project planning and the model underlying the life cycle of the development, including the life cycle of a project itself.

Life cycle models in systems development including plan-driven and agile approaches. Life cycle models in relation to predictive (or plan driven) vs. more adaptive. A range of these life cycle models will be evaluated for effective project management in a range of contexts in co-located and global software development driven by change management and agile methods. Evaluation of these models will include their influence on causing or preventing break downs between the design process, the value of scenarios and system productivity and also the role that process management has over the life cycle.

Project planning processes and techniques forms the core of the course and includes: planning criteria, work breakdown structures (WBS), setting milestones and defining deliverables, activity planning, precedence (network) diagrams, critical path analysis, levelling of resources against constraints imposed, resource and cost accounting.

Understanding project finance and returns on investment as a key attribute leading to project success with emphasis on cumulative cost and the difference between costing and pricing including their both associated driver factors.

Project costs estimation using different software cost estimation methods including algorithmic models. Software project sizing and productivity anomalies will be discussed taking into consideration programming language level, programmers' verbosity, tooling, etc. Approaches to software cost estimation using use-case models, bottom-up and top-down methods in light of the readily available project information and the early adoption of the requirements engineering process phases.

Project planning and management principles matched with the state of the art project management frameworks with emphasis on project evaluation metrics, planning and control, risk management, change management, and quality management.

The role of the project manager in managing teams, organising team structures and sizes, their roles and responsibilities, qualities and skills of managers and team dynamics taking into consideration plan-driven and agile approaches of systems development life cycle models.

Part 3: Teaching and learning methods

Teaching and learning methods: The module uses lectures with tutorial sessions using lecture notes and research papers in software project management. Students reflect on directed readings within tutorial groups. A range of topics typically addressed as part of a generalised software project management course, as well as coverage of the variety of software life cycle models, will form the structure of the main contact sessions, with each session largely being discrete. This range of topics will be matched by a set of possible summative examination questions which match the topics being covered and give a range of exploratory avenues for deeper investigation by each student in their own independent learning hours.

No variations in teaching and learning strategy for different programmes or modes of attendance. This is not a remote learning module as insufficient material will be available wholly online. It is expected a student will spend three hours each week reviewing material used in the classroom, exploring those techniques more fully and reading up on supplementary material provided.

Using the notional student study hours: credit value of 10:1, the total study hours should be 150 hours including 24 hours of class contact over 12 weeks, reading more widely on the topics of software project management with also directed readings, administering of their time and engaging online module through then VLE.

Scheduled learning includes variety of method such as lectures, seminars, tutorials, case studies, presentations, group discussions in tutorial sessions, etc.

Independent learning includes hours engaged with essential reading and appraising the material covered in class and through the VLE.

2 hours classroom contact each week for 12 weeks. The classroom activity will be a combination of lecture and practical sessions, switching between delivery of material and practical exploration of the techniques.

Material suitable for self-directed learning and exploration of the topics and techniques will be made available via the VLE.

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

MO1 Demonstrate awareness of, and the ability to apply, a variety of project planning, cost estimation and control techniques.

MO2 Evaluate project management functions

MO3 Understand the contexts and advantages of different plan-driven and agile life cycle models for project management with emphasis on project planning and control.

MO4 Evaluate leadership skills and approaches to team management.

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](https://uwe.rl.talis.com/modules/ufcfpj-15-m.html) via the following link <https://uwe.rl.talis.com/modules/ufcfpj-15-m.html>

Part 4: Assessment

Assessment strategy: At both first sit and resit, the assessment will be summative with a final examination.

Formative learning can be gained by students targeting all directed tasks during teaching weeks and discussing them as needed with the teaching staff .

Assessment tasks:

Examination (Online) (First Sit)

Description: Three-hours online examination, delivered in a 24 hour window,

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Examination (Online) (Resit)

Description: Three-hours online examination, delivered in a 24 hour window,

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Information Technology [Frenchay] MSc 2023-24

Information Technology [Frenchay] MSc 2023-24

Information Technology [Villa] MSc 2023-24