



Module Specification

Project Management (Work Based Learning)

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Part 1: Information

Module title: Project Management (Work Based Learning)

Module code: UFMF8C-15-2

Level: Level 5

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Engineering Design & Mathematics

Partner institutions: None

Field: Engineering, Design and Mathematics

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: Projects and project management in an industrial context; portfolios and programmes. Including understanding the need for a high level of professional and ethical conduct in engineering projects.

Project organisation, structures, team building and human factors. Management and Leadership in projects.

Stakeholders, strategy and successful projects - understanding customer and user needs, managing strategic choices, identifying constraints including environmental and sustainability limitations.

Project planning, deconstructing a project through work-breakdown structures, task estimation, tools to manage constraints and achieve engineering objectives in project management (precedence relationships and critical path analysis).

Managing complexity: introduction to systems engineering.

Risk management techniques, e.g. FMEA, Cause and effect, Fault trees, Delphi methods.

Project scheduling techniques to manage the design process, e.g. Network analysis, PERT, Critical path analysis, CPM.

Product pricing and project costing.

Project control techniques: Cost and schedule control, identification and management of cost drivers.

Project Management strategies in an organisational context, protecting your ideas and IP.

Project delivery, completion and appraisal.

Part 3: Teaching and learning methods

Teaching and learning methods: Contact: 36 hours

Assimilation and skill development: 36 hours

Project work: 78 hours

Total: 150 hours

The contact hours will be used to provide tutorials, mentoring and distance learning support.

A number of project outlines will be provided to the students by the teaching staff. Students will receive initial guidance on team dynamics and then form teams. The e-learning material provides a framework for team formation and management and for student centred learning of the project management material. Students will be required to operate within a set of guidelines which will mandate a professional standard of record keeping at the individual and team level. Teams will receive guidance and support through e-learning materials and formative feedback through tutorials and tutor input into team wiki discussions. Support and guidance will also be provided through work placement mentors/supervisors to facilitate reflective work based learning.

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

MO1 Show a detailed knowledge and understanding of formal project management techniques for the management of an engineering project

MO2 Demonstrate subject specific skills with respect to eliciting stakeholder requirements and developing into a working brief, resolving technical problems and delivering realistic outcomes

MO3 Demonstrate the ability to understand and respond appropriately to the issues associated with managing complex projects

MO4 Show cognitive skills with respect to eliciting, synthesizing and evaluating technical, commercial and economic data from multiple sources

MO5 Demonstrate key transferable skills in problem formulation, decision making, time management and communication and presentation skills

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](https://uwe.rl.talis.com/index.html) via the following link <https://uwe.rl.talis.com/index.html>

Part 4: Assessment

Assessment strategy: The project group is assessed in two key complementary areas.

The project output is assessed on the basis of a project report and a presentation.

The project process is assessed through oral presentation of project files and personal log books.

The assessment therefore takes into account both the professional practice demonstrated in the management of the project and the outcomes of the project.

Resit is the same as the first sit

Resit deliverable(s) will be scaled appropriately to group size and task complexity

Assessment tasks:**Project (First Sit)**

Description: Project report and presentation (final assessment)

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5

Project (Resit)

Description: Project report and presentation (final assessment)

Resit deliverable(s) will be scaled appropriately to group size and task complexity

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Mechanical Engineering [UCS] FdSc 2022-23

Aerospace Engineering Manufacturing [Sep][PT][UCW][3yrs] - Withdrawn FdSc
2021-22

Mechanical Engineering [Sep][PT][Gloscoll][3yrs] FdSc 2021-22

Mechatronics [Sep][PT][UCS][3yrs] FdSc 2021-22

Mechatronics [Sep][PT][GlosColl][3yrs] FdSc 2021-22