



## **Module Specification**

### **Project Management for Engineers**

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## Part 1: Information

**Module title:** Project Management for Engineers

**Module code:** UFMEB5-15-2

**Level:** Level 5

**For implementation from:** 2026-27

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**College:** College of Arts, Technology and Environment

**School:** CATE School of Engineering

**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:** This module focuses on the detailed project planning phase of the project life cycle, providing students with essential tools to manage engineering projects within a business context. It integrates project management methodologies, commercial considerations and research principles, preparing students to design sustainable business models and develop well-structured engineering research proposals.

**Features:** Not applicable

**Educational aims:** By the end of this module, students will have gained the skills necessary to:

Apply project management principles to real-world engineering challenges.

Develop commercially viable and sustainable business models in an engineering context.

Formulate evidence-based, research-driven project proposals to support their final-year individual project.

**Outline syllabus:** <Part 1>

Project scope management, planning and scheduling

Procurement, resource and cost management

Stakeholder and communication management

Project risk management

Sustainability and ethical consideration in engineering projects

Project management in a business context

<Part 2>

Research process: theory and practical implications including action and case study research

Ethical considerations for engineers undertaking research

Risk assessment and management, planning and budgeting

Research proposal preparation

Features of qualitative and quantitative data

Data analysis and presentation

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** One hour lecture per week delivered by the module team and guest speakers from industry, providing the students with a detailed process of project execution and practical knowledge of what it takes to

initiate and commercialise an innovative business idea.

Two hour tutorial per week that focuses on developing student's project management skills and entrepreneurial skills through team work and exploration of each of the topic areas covered during the lecture.

Project based learning is used to facilitate learning, and is a student-centred learning approach that mirrors the professional behaviour of an engineer and provides opportunity for students to work as a team, manage time and resources to deliver small projects within an individual discipline.

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

**MO1** Apply knowledge of engineering project management principles in practical, real-world scenarios

**MO2** Demonstrate a comprehensive understanding of the commercial context within engineering project to design a sustainable business model

**MO3** Develop a coherent, literature based, evidenced and feasible project proposal that contains a clearly defined engineering research question that may be applicable to real world application or academic research.

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 54 hours

Face-to-face learning = 96 hours

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/03297FC2-68FC-A8EE-B803-57CC91CB5A63.html?lang=en-GB&login=12AACE.html?lti1p3LaunchId=lti1p3_launch_67b88f541be848.86457724&lti1p3LinkType=deep_link&login=1) via the following link [https://rl.talis.com/3/uwe/lists/03297FC2-68FC-A8EE-B803-57CC91CB5A63.html?lang=en-GB&login=12AACE.html?lti1p3LaunchId=lti1p3\\_launch\\_67b88f541be848.86457724&lti1p3LinkType=deep\\_link&login=1](https://rl.talis.com/3/uwe/lists/03297FC2-68FC-A8EE-B803-57CC91CB5A63.html?lang=en-GB&login=12AACE.html?lti1p3LaunchId=lti1p3_launch_67b88f541be848.86457724&lti1p3LinkType=deep_link&login=1)

## Part 4: Assessment

**Assessment strategy:** Assessment in this module consists of:

- a portfolio that consists of various tasks addressing the learning outcomes, including a presentation in the form of a "business pitch" and an individual engineering project proposal.

Formative assessment will be provided during the two-hour weekly tutorials to support students in preparing their project proposals.

Resit assessments will mirror the format of the first sit assessments, with potential adjustments to the scope and scale of engineering solutions or business ideas.

**Assessment tasks:**

**Portfolio (First Sit)**

Description: Portfolio

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3

**Portfolio (Resit)**

Description: Portfolio

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:

Robotics [Frenchay] BEng (Hons) 2025-26

Electrical and Electronic Engineering [Frenchay] BEng (Hons) 2025-26

Electrical and Electronic Engineering {Foundation} [Frenchay] BEng (Hons) 2024-25

Robotics {Foundation} [Frenchay] BEng (Hons) 2024-25