



## **Module Specification**

### **Individual Project MEng A**

Version: 2025-26, v4.0, Approved

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## Part 1: Information

**Module title:** Individual Project MEng A

**Module code:** UFMFY8-30-3

**Level:** Level 6

**For implementation from:** 2025-26

**UWE credit rating:** 30

**ECTS credit rating:** 15

**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:** The Engineering Project module provides the opportunity for a student to undertake a detailed individual research project, demonstrating subject knowledge, project management skills and awareness of ethical and environmental impact of their work. The module follows directly from the level 5 module Engineering Research in which students develop a research proposal that could form the basis of the individual engineering project.

The project may encompass any aspect of engineering, and may result from a student's industrial work, from personal interest and experience, or from the university.

Learning is predominantly through independent, self-directed study, with the support of a project supervisor and the module leader. It is expected that students will develop a range of skills as their project activities develop, from specialist technical skills through to transferable skills.

**Features:** Module Entry requirements: 210 credits of which 90 must be at level 2 or above

**Educational aims:** The aim of this module is to provide the platform for students demonstrate substantial engineering subject knowledge and engineering management skill in the completion of an individual research project.

The module provides evidence to relevant accreditation bodies that students have satisfied key learning outcomes as defined by the Engineering Council UK by demonstrating the ability to integrate engineering knowledge and skills to manage a technical project and be aware of the ethical, societal and environmental of their work.

**Outline syllabus:** Project manage their activities, from project selection, aims and objectives, through to identifying and discussing its outcomes and their dissemination.

Build awareness of health and safety issues relating to their project and any wider implications, ensuring a suitable risk assessment process is successfully undertaken.

Understand and assess the project's ethical, economic, legal, social and environmental issues.

Review appropriate background material and related academic literature. National codes of practice and policy should also be considered, as relevant.

Develop research methodology to relate their background research to the project application and use this methodology to analyse and evaluate the project and its process. Validate and explain the results achieved.

Develop their written and verbal communication skills to disseminate the project outcomes.

Discuss the activities undertaken and develop conclusions about the work done and its implications. Identify recommendations for further activity

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

**Teaching and learning methods:** This is a self-directed, self-managed individual project module. Each student is assigned a project supervisor. The role of the supervisor is to provide guidance and to monitor progress. Throughout the project, the student will meet their supervisor as required.

As the project is an independent activity, all the supporting material to support the project process will be provided via Blackboard. It is the students' responsibility to regularly review this material to ensure compliance with the process.

Students may develop further the project proposal developed in the module Engineering Research or develop a new project idea.

During the project selection and identification stage, students will work closely with their supervisor to formulate a research proposal. This will define the scope of the investigations and experimental studies to be undertaken. It will also establish the resources necessary for project completion. Additionally, the wider considerations about the project will be identified and managed accordingly.

Students are encouraged to develop their dissertations as the project work proceeds, to ensure all relevant aspects of the project are captured. Guidance will be given on the writing and composition of the dissertation.

**Scheduled contact:**

One-to-one: where the student and their supervisor meet, or, where a group of students working on related project topic meet together with their supervisor.

**Self-study:**

Students are expected to identify and make use of appropriate resources, including other staff, and students, where appropriate. Students are expected to engage with the study and the evaluation of their individual project investigation.

Review meetings will be held on a regular basis between supervisor and student, at which project planning and progress will be discussed. The meeting will enable the supervisor to give feedback to the student, concerning the work undertaken and the progress achieved. Such meetings will take place typically every two/three weeks during the teaching year. It will be the responsibility of the student to arrange and record such meetings.

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

**MO1 PROJECT PLANNING MANAGEMENT AND IMPACTS**

Demonstrate the management of a self-directed original research project, cogent to their degree, reflecting a substantial piece of work. Reflect on the impacts of the project in relation to security, ethics and sustainability.

**MO2 PROJECT EXECUTION**

Identify an appropriate methodology to execute a systematic study involving technical work.

**MO3 PROJECT EVALUATION**

Synthesise information, evaluate it and develop justified conclusions and recommendations.

**MO4 PROJECT COMMUNICATION**

Effectively communicate technical understanding and recommendations achieved from the research investigation to a technical audience.

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 286 hours

Face-to-face learning = 14 hours

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ufmfy8-30-3.html) via the following link <https://uwe.rl.talis.com/modules/ufmfy8-30-3.html>

**Part 4: Assessment**

**Assessment strategy:** The assessment for this module is as follows:

Progression Portfolio:

(Progress Review = meeting with the supervisor where evidence is presented)

Progress Review 1: Evidence of meeting with supervisor (and technician) to generate initial project concept including aims, objectives, scopes, research questions, ethics.

Progress Review 2: Evidence of risk assessment, project management, evaluation of methodology, references, and setting targets for the next progress review.

Progress Review 3: Evidence of work undertaken so far and addressing the targets set in the previous progress review.

Project Report / Dissertation

The report will:

Record the project and the related processes

Contain relevant background supporting evidence

Include a clear methodology, and suitable analysis and evaluation

Provide clear conclusions and recommendations for further work based on the project's outcomes

Guidelines will be provided to aid project assessment, and will cover all aspects of the project investigation and management as described.

Final Viva Presentation:

The student will be have a viva around their final report.

Resit is the same as the first sit

**Assessment tasks:**

**Portfolio** (First Sit)

Description: Progression Portfolio

Weighting: 0 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

**Presentation** (First Sit)

Description: Viva style - presentation and individual questioning or where appropriate a demonstration of the engineering work in practice.

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2, MO3, MO4

**Report** (First Sit)

Description: Submission of a journal, conference, technical report or design summary containing research activities.

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3, MO4

**Portfolio (Resit)**

Description: Progression portfolio

Weighting: 0 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1

**Presentation (Resit)**

Description: Viva style - presentation and individual questioning or where appropriate a demonstration of the engineering work in practice.

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2, MO3, MO4

**Report (Resit)**

Description: Submission of a journal, conference, technical report or design summary containing research activities.

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO3, MO4

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Mechanical Engineering [Frenchay] MEng 2023-24



Aerospace Engineering [Sep][PT][Frenchay][8yrs] - Withdrawn MEng 2020-21

Aerospace Engineering (Systems) [Sep][PT][Frenchay][8yrs] - Withdrawn MEng  
2020-21

Aerospace Engineering (Design) [Sep][PT][Frenchay][8yrs] - Withdrawn MEng 2020-  
21

Aerospace Engineering (Manufacturing) [Sep][PT][Frenchay][8yrs] - Withdrawn  
MEng 2020-21

Mechanical Engineering [Frenchay] MEng 2022-23