

Module Specification

Engineering in Society

Version: 2027-28, v1.0, Approved

Contents	
Module Specification	1
Part 1: Information	2
Part 2: Description	2
Part 3: Teaching and learning methods	3
Part 4: Assessment	4
Part 5: Contributes towards	5

Part 1: Information

Module title: Engineering in Society

Module code: UFMEB6-15-3

Level: Level 6

For implementation from: 2027-28

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 develops the concept of the "Professional Engineer". Students will understand the skills required to operate within a modern engineering environment and understand where future opportunities lie as they think about their future career. Students will be able to identify personal goals, review what evidence they have so far to demonstrate their professionalism and how this can be used to develop an initial career plan.

Features: Not applicable

Educational aims: The aim of this module is to develop a sound basis for understanding the role of the engineer, the professional engineering working environment and to be able to use this knowledge to prepare for the transition from university to professional life as a graduate engineer.

Outline syllabus: Outline syllabus: The professional engineering environment Human factors, ethics and behaviours Quality assurance and improvement Safety management Personal skills analysis and reflective practice Equality and diversity, the inclusive workplace Career planning and Continuing Professional Development Emerging issues for engineering and sustainability

Part 3: Teaching and learning methods

Teaching and learning methods: The module involves a significant amount of selfdirected, self-managed learning as each student researches and identifies issues relevant to their future professional development.

This learning will be facilitated with a series of lectures and tutorials including workshops to enable group engagement, discussion and reflection.

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

MO1 Demonstrate engagement with context-specific standards, regulations and codes of practice in the development of creative design solutions.

MO2 Reflect on the importance of people in the engineering process to achieve sustainable engineering in society.

MO3 Critically reflect in terms of industry requirements via UK-SPEC for Engineers, to develop a plan for your own professional development.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link <u>https://rl.talis.com/3/uwe/lists/8F70C91E-308D-3826-71D6-DBBD545298C1.html?lang=en-GB&login=1</u>

Part 4: Assessment

Assessment strategy: The assessment is designed to help students understand their current expertise and potential, and the step change they will face as a graduate engineer. They will discuss and reflect upon what it means to be an Professional Engineer (this needs to be underpinned by current thinking and literature), using the concepts proved in the module.

Assessment consists of an individual reflective portfolio consisting of multiple pieces, including the development of the UK-SPEC for Engineers Chartered Engineer (CEng) Skills and Competency Matrix, and a reflection critically evaluating students' module activity in terms of the core requirements of the module, how this was achieved, and what they have learned from the process.

The resit assessment strategy is the same as the first sit

Assessment tasks:

Portfolio (First Sit) Description: Professional Portfolio Weighting: 100 % Final assessment: Yes Group work: No Learning outcomes tested: MO1, MO2, MO3

> Page 4 of 5 15 May 2025

Portfolio (Resit) Description: Professional Portfolio Weighting: 100 % Final assessment: Yes Group work: No 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