



MODULE SPECIFICATION

Part 1: Information			
Module Title	Group Project Challenge		
Module Code	UFMFEQ-30-M	Level	Level 7
For implementation from	2019-20		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Environment & Technology	Field	Engineering, Design and Mathematics
Department	FET Dept of Engin Design & Mathematics		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Overview: This module provides a broad comprehension of the competencies and social responsibilities required for 'engineering citizenship' in order to be a professional engineer. This module will introduce students to the wider social considerations needed to enact Corporate Social Responsibility in the modern engineering industry.</p> <p>Educational Aims: See learning outcomes.</p> <p>Outline Syllabus: Communication skills are essential both within a professional work context, and also to engage with communities and groups that are impacted by engineering projects and developments. Students will learn about a variety of engagement strategies utilised by professional organisations and Chartered Engineers, as well as the variety of audiences with which these skills can be practiced and explored.</p> <p>Students will work in groups to conduct a community placement. Each group will be given an engineering challenge for which they have to develop a socially acceptable solution for the community group. Successful completion of this module will enable students to communicate engineering concepts to a variety of audiences in the future.</p>

STUDENT AND ACADEMIC SERVICES

Teaching and Learning Methods: This module will combine class-based interactive workshops with experience in the community. It is expected students will enhance this with self-directed study.

Part 3: Assessment

The assessment will enable students to reflect on the importance of being socially responsible engineers; to build and demonstrate their understanding of some of the professional skills needed to communicate their work and ideas in appropriate professional formats.

Placements:

Students will be divided into small groups of two to five, and allocated a community placement. Students will perform site visits to scope out the 'engineering requirements' for the group project. The projects will include engineering considerations, but more importantly for this project, a full scoping of social considerations is also needed. The engineers are expected to produce a brief for an engineering solution which will benefit the community group, which is designed in conjunction with their needs.

Feedback on the engineering solutions, plus in-class and online discussion of their reading and experiences will encourage peer review and critical analysis of the placements.

The summative assessment will enable reflection on the benefits to the social responsibility aspects of being an engineer. These will consist of:

Component A

Group Poster presentation, for a group mark, to discuss how the project has been communicated to and impacted on the relevant community, reflecting how the engineers have connected with the groups involved. This will be a 15 - 20 minute Question and Answer session in class-time involving fellow students as well as the assessors.

Final group report - this will be a summary of the group project and experience, including the engineering solutions presented to the community. Each individual will be expected to contribute 500 words (maximum) to this report.

The group work mark will be moderated using the EDM Group Working Policy, with:

- a) Group mark stands for whole group
- b) Individual Reflection

Note that for any given delivery of the module the precise method for marking group work will be made known to students at the start of teaching.

Component B

Portfolio: Log book from placement submitted (consisting of e.g. research notes, meeting notes, photos and reflections), along with a 2000 word critical reflection on the project process and management.

Formative feedback takes place during the module and considers the quality of the student's reflective thinking and placement feedback on professional standards and achievements.

An individual log book is maintained over the whole module as a 'container' for academic outputs at regular intervals, as evidence of professional work in progress, and to track and reflect on professional and personal development.

Formative feedback will consist of:

Discussion between peers within the project group

Placement feedback from professionals within the community context

STUDENT AND ACADEMIC SERVICES

Feedback from engineers through a presentation to the class to share learning.

Resit Strategy

Component A: Requires the student to give an individual presentation based on a tutor-specified scenario, along with a 500 word (maximum) report reflecting on the topic, to ensure the learning outcomes are met.

Component B: Provides the student with the opportunity to rework the written portfolio and reflective report (2000 words)

Resit "as 1st Sit" Strategy

Component A: Requires the student to give an individual presentation based on a tutor-specified scenario, along with a 500 word (maximum) report reflecting on the topic, to ensure the learning outcomes are met.

Component B: Requires the student with the to provide the written portfolio and reflective report (2000 words)

Risk of plagiarism will be mitigated by the individualised variables and data being issued to student groups with the assignment brief.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component A		12 %	Group report
Poster - Component A	✓	38 %	Group poster presentation.
Portfolio - Component B		50 %	Individual portfolio, plus critically reflective report
Resit Components	Final Assessment	Element weighting	Description
Report - Component A	✓	12 %	Individual report
Poster - Component A		38 %	Individual poster presentation
Portfolio - Component B		50 %	Individual report, plus critically reflective report

STUDENT AND ACADEMIC SERVICES

Part 4: Teaching and Learning Methods

Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:	
	Module Learning Outcomes	Reference
	Understand and critique science communication and public engagement strategies	MO1
	Understand and critique the social impact of engineering projects	MO2
	Involve people in the community in the design and communication engineering solutions to achieve their requirements	MO3
	Demonstrate understanding and implementation of project management with respect to the project itself and the various considerations required, such as stakeholder, financial and value management	MO4
	Demonstrate awareness of ethics and risk assessment in professional practice	MO5
	Critically reflect on the strategies used and the experiences undertaken	MO6
Contact Hours	Independent Study Hours:	
	Independent study/self-guided study	205
	Total Independent Study Hours:	205
	Placement Study Hours:	
	Placement	60
	Total Placement Study Hours:	60
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	35
	Total Scheduled Learning and Teaching Hours:	35
	Hours to be allocated	300
	Allocated Hours	300
Reading List	<i>The reading list for this module can be accessed via the following link:</i>	
	https://uwe.rl.talis.com/modules/UFMFEQ-30-M.html	

Part 5: Contributes Towards

This module contributes towards the following programmes of study: