MODULE SPECIFICATION

Part 1: Information			
Module Title	Group Project Challenge		
Module Code	UFMFGP-15-M	Level	Level 7
For implementation from	2018-19		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Engineering, Design and Mathematics
Department	FET Dept of Engin Design & Mathematics		
Contributes towards			
Module type:	Project		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Overview: This module will give students the experience of working in teams in order to deliver against an agreed objective. This objective could be research or development focused. **Educational Aims:** In addition, the learning outcomes the educational experience may explore, develop, and practise but not formally assess the following: Understanding of the need for high level professional and ethical conduct. An awareness of professional literature and critical literature review. **Outline Syllabus:** The students will learn in depth knowledge of an area relating to their own specialism, and will also practice 'soft skills' which relate to the formation and management of groups, and project management.

Teaching and Learning Methods: The module will be delivered entirely through workshops. At the start of the course, students are divided into groups of two or three and are helped to develop an interesting and original engineering system they could expect to complete within the time allotted for the course. To facilitate the students' work, a short series of tutorials on research methods, project management, group work, and other issues will be delivered in the early stages of the module.

The project will involve the use of technical literature and other information sources, and the ability to work with technical uncertainty. Students will use fundamental knowledge to investigate new and emerging technologies, extract data pertinent to an unfamiliar problem, and apply this data in its solution using computer based engineering tools when appropriate. In solving the problem they will generate an innovative design for products, systems, components or processes to fulfil new needs and to stated requirements, using design processes and methodologies and the ability to apply and adapt them in unfamiliar situations.

Part 3: Assessment

Groups make presentations to the rest of the class at the end of the first and second term and write a group report at the end of the module. The module leader assigns group marks for two presentations and a group mark for the group report. Individual element of the group report mark is a reflective account of each student (10% of the group report mark).

Group marks are distributed based on individual group member contribution (both for the presentations and report) which is agreed by group members so students decide how to apportion those marks. This is then moderated by the module leader.

The assessment of this module is composed of three elements:

Presentation 1: 15-minute group presentation at the end of first term. The 15-minute presentation is followed questions designed to probe student understanding of their design decisions and the processes enacted. A more detailed specification of the presentation process will be supplied to students.

Presentation 2: 15 minute group presentation at the end of second term. The same assessment concept as for Presentation 1.

Group Report: 3000 word limit portfolio of the group research to which each group member should equally contribute.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Report - Component A	✓	50 %	Group report
Presentation - Component A		25 %	Presentation 1
Presentation - Component A		25 %	Presentation 2
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Report - Component A	✓	50 %	Individual report
Presentation - Component A		50 %	Presentation 1

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will be able to:

	Module Learning Outcomes
MO1	Research and identify the potential and limitations of current advanced technologies within their specific field of study.
MO2	Implement a process of planning, designing and construction of an engineering system as well as planning and managing a research/development project.
MO3	Develop and produce solutions to industrial and research problems in structured and time limited situations including analysis, design and critical evaluation.
MO4	Critically evaluate a range of commercial and industrial constraints, and to balance these with the needs of sustainable development.
MO5	Show intellectual skills with respect to solution-focused synthesis of knowledge from diverse backgrounds and disciplines.
MO6	Demonstrate key skills in oral communication, written communication, problem formulation and decision making.

Contact Hours

Contact Hours	
Independent Study Hours:	
Independent study/self-guided study	126
Total Independent Study Hours:	126
Scheduled Learning and Teaching Hours:	
Face-to-face learning	24
Total Scheduled Learning and Teaching Hours:	24
Hours to be allocated	150
Allocated Hours	150

Reading List

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/index.html