MODULE SPECIFICATION

Part 1: Information			
Module Title	MEng Group Project		
Module Code	UFMED7-30-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:	Project		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Educational Aims: See Learning Outcomes.

Outline Syllabus: Outline of the selected problem by lecturer and industrial representative, development of specification by students (with lecturer\'s comments), work of students on solution (work in groups, planning, teamwork), presentation, feedback discussion.

Areas covered by a short taught section (6 hours) include:

Design of research programmes. Design of experiments; use of controls. Pilot experiments. Logging and recording data. The need to record decisions and the basis for them.

Design and development programmes. Revision of design process. Client requirements. Specifications. Analysis and Modelling. Design for manufacture as well as purpose. Prototypes.

Information search and retrieval. Use of libraries as research tools. Databases of publications. Use of Internet in research.

The need for effective project management and the use of project management tools.

Teaching and Learning Methods: Students will attend five formal lectures covering the principles and practice of:

Design of research programmes. Design of experiments; use of controls. Pilot experiments. Logging and recording data. The need to record decisions and the basis for them.

Design and development programmes. Revision of design process. Client requirements.

Specifications. Analysis and Modelling.

Information search and retrieval. Use of libraries as research tools. Databases of publications. Use of Internet in research.

The need for effective project management and the use of project management tools.

Students will then be divided into groups (optimum size 3-5 students/group) and given a definition/specification of their project. The problem outline, consultations during the study, final assessment and feedback will be facilitated through tutorial sessions with staff supervising the projects. Contact time may also include visits to industry and consultations with other specialists at UWE.

Students will be expected to learn independently and carry out reading and directed study beyond that available in taught classes and tutorial sessions. The groups will be required to work effectively as a team and must produce evidence of this through the minutes of weekly group meetings. 72 hours are timetabled for the students to meet up in teams.

Part 3: Assessment

Students will be required to give two oral progress reports (as groups) at key stages of the project. Formative feedback will be given at this time.

The module is examined via a group report and a group viva.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Report - Component A	✓	80 %	Written individual report
Presentation - Component A		20 %	Oral presentation
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Report - Component A	✓	80 %	Written individual report
Presentation - Component A		20 %	Oral presentation

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
The practical constraint of the design and/or manufacturing process within industrial organisations	MO1
How to manage interdisciplinary projects	MO2
An individual's role in a project team	MO3
Their ability to communicate concepts do their peers	MO4
Open-ended multi-disciplinary projects	MO5
Use of theoretical methods within an industrial environment	MO6
Alternative solutions within the constraints of the project specification	MO7
Open-ended projects within practical constraints and learn to apply theoretical methods in industrial situations	MO8
Progression to independent learning	MO9
Self-management skills	MO10
To research topics relating to the design project	MO11
Undertake a realistic task for which there is a strictly limited time for completion	MO12

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	294
Total Independent Study Hours:	294
Scheduled Learning and Teaching Hours:	
Face-to-face learning	6
Total Scheduled Learning and Teaching Hours:	6
Hours to be allocated	300
Allocated Hours	300

Reading List

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

https://uwe.rl.talis.com/modules/ufmed7-30-m.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study: