



MODULE SPECIFICATION

Part 1: Information			
Module Title	Masters Group Technical Project		
Module Code	UFMFFQ-30-M	Level	Level 7
For implementation from	2018-19		
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		
Contributes towards	Engineering Competence [Jan][PT][FR][2yrs] PGDip 2018-19		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Educational Aims: The technical group project aims to provide students the experience of working within a team, and parallels the way engineers often work in industry. Students will integrate their knowledge and understanding in order to specify and solve a substantial industrial engineering problem, through the application of engineering tools and methods. The project allows students to develop their understanding of project management, time management, ethics, sustainability, health and safety and risk mitigation. Students will develop effective communication and leadership skills during the project.</p> <p>Outline Syllabus: Students will attend five formal lectures covering the principles and practice of:</p>

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1. The requirement for effective project management: the implementation of project management tools.
2. Information search and retrieval: the use of libraries as research tools: databases of publications, use of the Internet in research.
3. Design of technical research programmes: design of experiments; use of controls; pilot experiments. Logging and recording data and the importance of decisions and the basis for them.
4. Design, development and analysis programmes: revision of process and client requirements
5. Specifications: analysis and modelling

Students will then be divided into groups (normally size 4-5 students/group) and given a definition/specification of their industrial 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 consultations with other specialists at UWE and from industry.

Teaching and Learning Methods: In addition to the formal lectures the 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.

Part 3: Assessment

The students are required to give a GROUP account of their initial technical findings and strategy to achieve a successful solution to the problem. The students will be examined orally to ascertain what the students know and the depth of understanding of the justifications and implementation of potential technical aspects of the project.

Component A

Group Executive Briefing, for a group mark, to discuss how the project has been planned, conducted, communicated to and impacted on the relevant function within the organisation, reflecting how the engineers have connected with the groups involved. This will be a Briefing with a Question and Answer session taking around 20 minutes.

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.

Component B

The students are required to produce an INDIVIDUAL written assignment submitted at the end of the module. The assignment is designed to assess the students' understanding and application of the various technical aspects of their given project (maximum 2000 words).

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

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.

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Resit Strategy

Component A: Requires the student to give an individual briefing 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 final report (2000 words)

Resit "as 1st Sit" Strategy

Component A: Requires the student to give an individual briefing 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 to provide the final 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 B		50 %	Industrially-focussed report (maximum 3000 words)
Report - Component A		12 %	Group report (max 500 words per person)
Presentation - Component A	✓	38 %	Group executive briefing
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		50 %	Industrially-focussed report (maximum 2000 words)
Report - Component A		12 %	Individual report (max 500 words)
Presentation - Component A	✓	38 %	Individual briefing

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Part 4: Teaching and Learning Methods		
Learning Outcomes	On successful completion of this module students will be able to:	
	Module Learning Outcomes	
	MO1	Critically interpret a client brief and develop a project plan.
	MO2	Plan and manage an open-ended project to a deliverable outcome demonstrating understanding of the impact of the commercial, economic and social environment
	MO3	Plan and manage an open-ended project to a deliverable outcome demonstrating understanding of the impact of the commercial, economic and social environment
	MO4	Employ effective and appropriate techniques, materials, or approaches in delivering the project outcome.
	MO5	Communicate effectively in both verbal and written form, to a technical and non-technical audience. Work effectively as a member of a team to achieve shared objectives within the scope of the project and monitor and adjust a personal programme of work on an on-going basis.
Contact Hours	Contact Hours	
	Independent Study Hours:	
	Independent study/self-guided study	265
	Total Independent Study Hours:	265
	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	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/modules/UFMFFQ-30-M.html</p>	