



MODULE SPECIFICATION

Part 1: Information			
Module Title	Project Management (Work Based Learning)		
Module Code	UFMF8C-15-2	Level	Level 5
For implementation from	2019-20		
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		
Module type:	Project		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Educational Aims: See Learning Outcomes</p> <p>Outline Syllabus: Projects and project management in an industrial context; portfolios and programmes. Including understanding the need for a high level of professional and ethical conduct in engineering projects.</p> <p>Project organisation, structures, team building and human factors. Management and Leadership in projects.</p> <p>Stakeholders, strategy and successful projects - understanding customer and user needs, managing strategic choices, identifying constraints including environmental and sustainability limitations.</p> <p>Project planning, deconstructing a project through work-breakdown structures, task estimation, tools to manage constraints and achieve engineering objectives in project management (precedence relationships and critical path analysis).</p> <p>Managing complexity: introduction to systems engineering.</p>

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Risk management techniques, e.g. FMEA, Cause and effect, Fault trees, Delphi methods.

Project scheduling techniques to manage the design process, e.g. Network analysis, PERT, Critical path analysis, CPM.

Product pricing and project costing.

Project control techniques: Cost and schedule control, identification and management of cost drivers.

Project Management strategies in an organisational context, protecting your ideas and IP.

Project delivery, completion and appraisal.

Teaching and Learning Methods: Contact: 36 hours

Assimilation and skill development: 36 hours

Project work: 78 hours

Total: 150 hours

The contact hours will be used to provide tutorials, mentoring and distance learning support.

A number of project outlines will be provided to the students by the teaching staff. Students will receive initial guidance on team dynamics and then form teams. The e-learning material provides a framework for team formation and management and for student centred learning of the project management material. Students will be required to operate within a set of guidelines which will mandate a professional standard of record keeping at the individual and team level. Teams will receive guidance and support through e-learning materials and formative feedback through tutorials and tutor input into team wiki discussions. Support and guidance will also be provided through work placement mentors/supervisors to facilitate reflective work based learning.

Part 3: Assessment

The project group is assessed in two key complementary areas.

The project output is assessed on the basis of a project report and a presentation.

The project process is assessed through oral presentation of project files and personal log books.

The assessment therefore takes into account both the professional practice demonstrated in the management of the project and the outcomes of the project.

First Sit Components	Final Assessment	Element weighting	Description
Project - Component A	✓	100 %	Project report and presentation (final assessment)
Resit Components	Final Assessment	Element weighting	Description
Project - Component A	✓	100 %	Individual assignment and oral examination

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Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th style="text-align: left;">Module Learning Outcomes</th> <th style="text-align: left;">Reference</th> </tr> </thead> <tbody> <tr> <td>Show a detailed knowledge and understanding of formal project management techniques for the management of an engineering project</td> <td>MO1</td> </tr> <tr> <td>Demonstrate subject specific skills with respect to eliciting stakeholder requirements and developing into a working brief, resolving technical problems and delivering realistic outcomes</td> <td>MO2</td> </tr> <tr> <td>Demonstrate the ability to understand and respond appropriately to the issues associated with managing complex projects</td> <td>MO3</td> </tr> <tr> <td>Show cognitive skills with respect to eliciting, synthesizing and evaluating technical, commercial and economic data from multiple sources</td> <td>MO4</td> </tr> <tr> <td>Demonstrate key transferable skills in problem formulation, decision making, time management and communication and presentation skills</td> <td>MO5</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Show a detailed knowledge and understanding of formal project management techniques for the management of an engineering project	MO1	Demonstrate subject specific skills with respect to eliciting stakeholder requirements and developing into a working brief, resolving technical problems and delivering realistic outcomes	MO2	Demonstrate the ability to understand and respond appropriately to the issues associated with managing complex projects	MO3	Show cognitive skills with respect to eliciting, synthesizing and evaluating technical, commercial and economic data from multiple sources	MO4	Demonstrate key transferable skills in problem formulation, decision making, time management and communication and presentation skills	MO5				
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Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://uwe.rl.talis.com/index.html</p>																

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Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Mechanical Engineering with Manufacturing {Apprenticeship} [Sep][PT][Frenchay][4yrs] BEng (Hons) 2018-19
Mechanical Engineering (Nuclear) - Not Running BEng (Hons) 2017-18
Electronic Engineering (Nuclear) [Sep][FT][Frenchay][5yrs] BEng (Hons) 2018-19
Mechanical Engineering [Sep][PT][UCW][3yrs] FdSc 2018-19
Mechatronics {Apprenticeship} [Sep][PT][UCW][3yrs] FdSc 2018-19
Mechanical Engineering [Sep][FT][BTC][2yrs] FdSc 2018-19
Aerospace Engineering (Design) {Apprenticeship} [Sep][PT][COBC][4yrs] BEng (Hons) 2018-19
Aerospace Engineering (Manufacturing) {Apprenticeship} [Sep][PT][UCW][4yrs] BEng (Hons) 2018-19
Aerospace Engineering (Manufacturing) {Apprenticeship} [Sep][PT][UCW][5yrs] BEng (Hons) 2018-19
Mechanical Engineering with Manufacturing [Sep][PT][Frenchay][4yrs] BEng (Hons) 2018-19
Mechanical Engineering with Manufacturing {Apprenticeship} [Sep][PT][UCW][4yrs] BEng (Hons) 2018-19
Mechanical Engineering with Manufacturing {Apprenticeship} [Sep][PT][COBC][4yrs] BEng (Hons) 2018-19
Mechanical Engineering with Manufacturing {Apprenticeship} [Sep][FT][Frenchay][3yrs] BEng (Hons) 2018-19
Building Services Engineering [Sep][FT][Frenchay][3yrs] BEng (Hons) 2018-19
Building Services Engineering {Apprenticeship} [Sep][PT][Frenchay][5yrs] BEng (Hons) 2018-19
Building Services Engineering {Top-Up} [Sep][PT][SHAPE][1.5yrs] BEng (Hons) 2018-19
Building Services Engineering {Top-Up} [Sep][FT][SHAPE][1yr] BEng (Hons) 2018-19