

MODULE SPECIFICATION

Part 1: Information						
Module Title	Individual Project MEng A					
Module Code	UFMFY8-30-3		Level	Level 6		
For implementation from	2020-	21				
UWE Credit Rating	30		ECTS Credit Rating	15		
Faculty		ty of Environment & nology	Field	Engineering, Design and Mathematics		
Department	FET [FET Dept of Engineering Design & Mathematics				
Module Type:	Stand	Standard				
Pre-requisites		None				
Excluded Combinations		None				
Co-requisites		None				
Module Entry Requirements		None				
PSRB Requirements		None				

Part 2: Description

Features: Module Entry requirements: 210 credits of which 90 must be at level 2 or above

Educational Aims: The nature of the project will be dependent on the topic being investigated. The project is designed to provide an opportunity for students to undertake individual, selfdirected work, in an area of their choice related to their award, and to further their other engineering-based knowledge. The project may encompass any aspect of engineering, and may result from a student's industrial work, from personal interest and experience, or from the university.

Outline Syllabus: Learning is predominantly through independent, self-directed study, with the support of a project supervisor and the module leader. It is expected that students will develop a range of skills as their project activities develop, from specialist technical skills through to transferable skills. These will include the ability to:

Project manage their activities, from project selection, aims and objectives, through to identifying and discussing its outcomes and their dissemination.

Build awareness of health and safety issues relating to their project and any wider implications,

ensuring a suitable risk assessment process is successfully undertaken.

Understand and assess the project's ethical, economic, legal, social and environmental issues.

Review appropriate background material and related academic literature. National codes of practice and policy should also be considered, as relevant.

Develop research methodology to relate their background research to the project application.

Utilise this methodology to analyse and evaluate the project and its process.

Enhance their written and verbal communication skills to ensure all involved in the project are able to perform as expected. These skills will also be required in the dissemination of the project outcomes.

Verify the results achieved and derive explanations for any deviations from expectation.

Discuss the activities undertaken and develop conclusions about the work done and its implications.

Identify recommendations for further activity. This "MEng A" module's activity provides the groundwork, develops the required methodology, and results in the outcomes to provide the input to an extended research investigation in the chosen topic at Level M (UFMERY-30-M "MEng B").

Teaching and Learning Methods: Students will normally work independently with limited supervision. Each student is assigned a project supervisor. The role of the supervisor is to provide guidance and to monitor progress. Throughout the project, the student will meet their supervisor as required. Scheduled group workshops to cover generic skills are encouraged, along with collaboration between students working on related projects.

As the project is an independent activity, all the supporting material to support the project process will be provided via Blackboard. It is the students' responsibility to regularly review this material to ensure compliance with the process.

During the project selection and identification stage, students will work closely with their supervisor to formulate a research proposal. This will define the scope of the investigations and experimental studies to be undertaken. It will also establish the resources necessary for project completion. Additionally, the wider considerations about the project will be identified and managed accordingly. Students are encouraged to develop the dissertation as the project work proceeds, to ensure all relevant aspects of the project are captured. Guidance will be given on the writing and composition of the dissertation.

Scheduled contact:

One-to-one: where the student and their supervisor meet, or, where a group of students working on related project topic meet together with their supervisor.

Group: where students are provided with generic study skills advice e.g. information literacy, laboratory awareness.

Self-study: Students are expected to identify and make use of appropriate resources, including other staff, and students, where appropriate. Students are expected to engage with the study and the evaluation of their individual project investigation

Part 3: Assessment

Component A

Assessed Progress Review

The student is required to present and answer questions that demonstrates their understanding of the research undertaken to date, how they have managed the research programme and developed professional competences.

STUDENT AND ACADEM		.5	
Feedback from the progress (Achieving Learning Outcome		d into the comp	pletion of the research project and the dissertation.
Component B B1 Research Proposal			
Identify the project managem	nic, legal, socia ent requirement ncluding releva	l and environm nts, such as re nt Literature R	nental implications of the project sources and risk considerations eview /Background Research plan. Register of 2
			properly, has started and is progressing as expected, odule. Achieving Learning Outcomes 1 and 2.
B2 Project Report / Dissertati	on:		
The report will: Record the project and the re Contain relevant background Include a clear methodology, Provide clear conclusions and M. Be a maximum of 12,000 wor	supporting evi and suitable a d recommenda	dence nalysis and ev	aluation g and preparation for the project's development at Level
Students are expected to use	the dissertation the the the tisself. Achieving	on to explain th g Learning Ou	ally competent, properly managed and executed. heir project and its processes, and are marked on the tcomes 2 - 6. The recommendations should
management as described. A	ssessment wil r. Both markers	l be by the pro s will scrutinise	I will cover all aspects of the project investigation and ject supervisor, the first marker, assisted by another the project, and arrive at individual marks. They will
	n of technical c	ompetence. T	a, focusing on two key aspects – the management of the here will be consideration about how the activity has
First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component B		11 %	Research proposal
Report - Component B		64 %	Report (12000 words)
Presentation - Component A	\checkmark	25 %	Assessed Progress Review
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		75 %	Report (12000 words)
Presentation - Component A	\checkmark	25 %	Poster and presentation
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Learning	On successful completion of this module students will achieve the follo	wing learning	outcomes:					
Outcomes		ing loaning	outcomoor					
	Module Learning Outcomes		Reference					
	Identify the main issues to be examined and the problems to be solved in the							
	execution of an engineering-discipline-related technical project. Undertake management of technical projects and select appropriate knowledge							
	sources to guide project execution and fulfil the project aims.							
	Complete technical work, undertake design and specification of critica	e technical work, undertake design and specification of critical						
	components so as to enable experiments to be undertaken with success.							
	Analyse and evaluate experimental and other data arising, to complete a critical appraisal of the technical work undertaken for the project and the overall							
	management of the investigation.Make clear and well-argued and supported recommendations for the continuation							
	of the further work and development of the project into the Level M phase - MEng B.							
	Effectively communicate, verbally and in written format, technical understanding and recommendations achieved from the research investigation.							
Contact	Independent Study Hours:							
Hours								
	Independent study/self-guided study	286						
	Total Independent Study Hours:	286						
	Scheduled Learning and Teaching Hours:							
	Face-to-face learning	14						
	Total Scheduled Learning and Teaching Hours:	4						
	Hours to be allocated	300						
	Allocated Hours	300						
Reading	The reading list for this module can be accessed via the following link:							
_ist	https://uwe.rl.talis.com/modules/ufmfy8-30-3.html							

Part 4: Teaching and Learning Methods

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Civil Engineering [Jan][FT][Northshore][4yrs] MEng 2018-19

Aerospace Engineering [Sep][FT][Frenchay][3yrs] BEng (Hons) 2018-19

Aerospace Engineering (Systems) [Sep][FT][Frenchay][4yrs] MEng 2018-19

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Aerospace Engineering with Pilot Studies [Sep][FT][Frenchay][4yrs] MEng 2018-19 Automotive Engineering [Sep][FT][Frenchay][4yrs] MEng 2018-19 Mechanical Engineering [Sep][FT][Frenchay][4yrs] MEng 2018-19 Aerospace Engineering (Design) [Sep][FT][Frenchay][4yrs] MEng 2018-19 Aerospace Engineering with Pilot Studies (Systems) [Sep][FT][Frenchay][4yrs] MEng 2018-19 Aerospace Engineering with Pilot Studies (Manufacturing) [Sep][FT][Frenchay][4yrs] MEng 2018-19 Aerospace Engineering with Pilot Studies (Design) [Sep][FT][Frenchay][4yrs] MEng 2018-19 Aerospace Engineering (Manufacturing) [Sep][FT][Frenchay][4yrs] MEng 2018-19 Aerospace Engineering [Sep][FT][Frenchay][4yrs] MEng 2018-19 Aerospace Engineering (Design) [Sep][FT][Frenchay][3yrs] BEng (Hons) 2018-19 Aerospace Engineering (Manufacturing) [Sep][FT][Frenchay][3yrs] BEng (Hons) 2018-19 Aerospace Engineering (Systems) [Sep][FT][Frenchay][3yrs] BEng (Hons) 2018-19 Electronic Engineering [Sep][FT][Frenchay][4yrs] MEng 2018-19 Electronic Engineering [Sep][FT][Frenchay][3yrs] BEng (Hons) 2018-19 Civil Engineering [Jan][FT][Northshore][4yrs] BEng (Hons) 2018-19 Aerospace Engineering with Pilot Studies [Sep][SW][Frenchay][5yrs] MEng 2018-19 Aerospace Engineering with Pilot Studies (Design) [Sep][SW][Frenchay][5yrs] MEng 2018-19 Aerospace Engineering with Pilot Studies (Manufacturing) [Sep][SW][Frenchay][5yrs] MEng 2018-19 Aerospace Engineering with Pilot Studies (Systems) [Sep][SW][Frenchay][5yrs] MEng 2018-19 Mechanical Engineering [Sep][FT][Frenchay][3yrs] BEng 2018-19