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MODULE DESCRIPTOR

Module Title

Individual Engineering Research Investigation

Reference	ENM214	Version	10
Created	February 2022	SCQF Level	SCQF 11
Approved	April 2006	SCQF Points	60
Amended	August 2022	ECTS Points	30

Aims of Module

To develop skills in the investigation and analysis of engineering problems and creativity in devising effective solutions, through the detailed research of one selected topic.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Integrate materials from the different areas of the course within the project work area.
- 2 Analyse, plan, execute and critically review a major project based on a brief drawn from the context of the course.
- 3 Report in writing on the work undertaken and the approach adopted.
- 4 Report orally on the work undertaken and the approach adopted.

Indicative Module Content

The project constitutes a major component of the course of study for MSc degree programmes in the School. Following a successful transition through the taught stage of the programme and a detailed literature review of the chosen research topic, students will begin work on the detailed project programme. Students are required to identify and source a project, subject to the approval of the School. Once a particular topic has been approved, students will be encouraged and guided by the project supervisors to produce a project brief and a plan of programme of events for consideration. Students should also make every effort to establish industrial contacts at an early stage and keep the designated supervisors up to date on progress. Early attention should be devoted to the establishment of the project as a viable concern through a detailed literature review and summary of the important aspects of the proposed study. On completion of the programme, students are expected to produce a detailed written report outlining the project findings to specified standards, and detailing the important aspects of the work undertaken and, make an oral presentation of the work.

Module Delivery

The project will be carried out on an individual basis, with the student having access to a supervisor(s) to provide guidance and support, as required.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	20	20
Non-Contact Hours	580	580
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	600	600
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Coursework	Weighting:	20%	Outcomes Assessed:	4
Description:	Oral examination.				

Component 2

Type:	Coursework	Weighting:	80%	Outcomes Assessed:	1, 2, 3
Description:					

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

The module has 2 components and an overall grade D is required to pass the module. The component weighting is as follows: C1 is worth 20% and C2 is worth 80%.

		Examination:						
		A	B	C	D	E	F	NS
Coursework:	A	A	A	A	B	B	E	
	B	B	B	B	B	C	E	
	C	B	C	C	C	D	E	
	D	C	C	D	D	D	E	
	E	D	D	D	E	E	E	
	F	E	E	E	F	F	F	
NS		Non-submission of work by published deadline or non-attendance for examination						

Module Requirements

Prerequisites for Module	The taught modules amounting to 120 points at SCQF 11 level must have been satisfactorily completed. In addition, normally, a UK honours degree in Engineering or a related discipline, proficiency in English language for academic purposes (or IELTS score of 6.5 or equivalent).
Corequisites for module	None.
Precluded Modules	None.

ADDITIONAL NOTES

Extensive specialised reading specific to individual projects is required. Where necessary, arrangements can be made to protect commercial confidence.

INDICATIVE BIBLIOGRAPHY

- 1 RGU MSc Energy Programme, "The Energy Programme MSc Project Handbook" and "Frequently Asked Questions" documents. (All MSc project students in Engineering are issued with copies of these documents).
- 2 Tanaka, M. L. 2020. A Thesis Proposal Development Course for Engineering Graduate Students; Journal of biomechanical engineering, 2020, Vol.142 (11); available online.
- 3 Wallwork A. 2014. User Guides, Manuals, and Technical Writing - A Guide to Professional English. Springer, New York NY.