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## MODULE DESCRIPTOR

### Module Title

Integrative Engineering Project

Reference	EN3602	Version	6
Created	April 2022	SCQF Level	SCQF 9
Approved	July 2004	SCQF Points	15
Amended	September 2022	ECTS Points	7.5

### Aims of Module

To provide the student with the ability to complete an investigation into an engineering topic and to undertake the associated design, implementation, testing and reporting.

### Learning Outcomes for Module

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

- 1 Critically evaluate possible solutions to a problem, select the best approach and manage the operation of the project.
- 2 Design, implement and evaluate the selected solution to a problem.
- 3 Produce a well-structured project report.
- 4 Apply appropriate skills in planning and execution of the project, preparation of a technical logbook and delivery of an oral presentation.

### Indicative Module Content

The project involves task specification, system design, implementation, evaluation and project management. There is no formal syllabus for the project in general but seminars are used to provide guidance with regard to project management and report writing.

### Module Delivery

The project is student-centred. Students are allocated to a member of academic staff who acts as a supervisor. Regular weekly meetings take place to review progress. All students must maintain a logbook.

### Indicative Student Workload

	Full Time	Part Time
Contact Hours	N/A	18
Non-Contact Hours	N/A	132
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	N/A	150
<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: 70% Outcomes Assessed: 1, 2, 3  
 Description: Technical project report.

**Component 2**

Type: Coursework Weighting: 30% Outcomes Assessed: 4  
 Description: Project planning and execution, logbook and oral presentation.

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

The module has 2 components and to gain an overall pass a minimum Grade D must be achieved in each component. The component weighting is as follows: C1 (y-axis) is worth 70% and C2 (x-axis) is worth 30%.

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

**Module Requirements**

Prerequisites for Module	Successful completion of SCQF 8 level study, or equivalent.
Corequisites for module	None.
Precluded Modules	EN3600 - Group Project (Engineering Stage 3).

**INDICATIVE BIBLIOGRAPHY**

- Guidance Notes on Project Work, School of Engineering. (All students are given guidelines relating to the operation of the project and the structure and content of the report.)
- Required reading is specific to each project.