

PROJ C4607: Final Year Project

		University					
Module Title	ə:	Final Year Project					
Language of Instruction:		English					
Credits: 20							
NFQ Level:	NFQ Level: 8						
Module Delivered In		1 programme(s)					
Teaching & Learning Strategies:		This module will be completed independently by the student with regular supervision meeting. The student will complete all project work, including project deliverables, a professional write up and a multimedia presentation.					
Module Aim:		Give students the opportunity to work independently, under supervision, to gain experience of a large design problem, with all the associated administrative, cost and communication management.					
Learning Ou	utcomes						
On successf	ul completion of th	his module the learner should be able to:					
LO1	Develop, manage, and document a defined project using a self-driven process to meet objectives, practicing effective one to one progress reporting and negotiation of deliverables.						
LO2	Apply problem solving, decision making and investigatory skills, select principles and techniques for the effective solution of engineering problems.						
LO3	Formulate a viable solution, by applying the principles of experimental design and design processes.						
LO4	Prepare the pro	ject communication (oral and written), with arguments and information set out in a coherent, logical manner					
LO5	Research, critic	Research, critically evaluate, reference, and apply information from a variety of sources.					
LO6	Manage the safety and ethics in an engineering project and apply codes of practice and regulations where relevant.						
LO7	Carry out technical analysis, critically evaluate results and support conclusions with fact, engineering judgement and interpretation.						
LO8	Use project plar	nning methodology appropriate to the project.					
Pre-requisit	e learning						
	ommendations learning (or a prac	ctical skill) that is recommended before enrolment in this module.					
No recomme	endations listed						
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.							
No incompat	ible modules liste	d					
Co-requisite	e Modules						
No Co-requisite modules listed							
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.							
No requirements listed							
i							



PROJ C4607: Final Year Project

Module Content & Assessment

Project Selection & Action Plan

Select a project from a list of industrial standard projects provided, or else propose an appropriate alternative project. Prepare a working specification and propose an action plan, in consultation with the project supervisor

Investigation & Research

Investigate, research, collect, collate and analyse relevant information

Development of a Proposed Solution

Assess the merits of proposed solutions and present reasoned arguments to support a preferred solution

Design, Implementation & Testing

Design, implement and test the preferred solution

Evaluation & Costing of the Preferred Solution

Thoroughly evaluate the performance of the implementation and research its production costs

Presentation Development

Prepare and deliver two presentations and demonstrations of the design to supervising staff. Coherently answer technical questions relating to the project

Project Log Maintain a detailed log of actions, proposed and executed, issues arising, discussions with supervisor and others, and all aspects of the project

Investigation & Documentation of Commercial Aspects

Commercial issues, such as the market size, competition and financial viability of implementing the project commercially should be investigated. In particular, this should include patent issues

Report Preparation

A report should be prepared to document the activity undertaken throughout the project

Assessment Breakdown	%	
Project	100.00%	

No Continuous Assessment

Project						
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date		
Project	Interim report and presentation (to include introduction, background, progress to date, ethical considerations, project plan/Gantt chart)	1,2,3,4,5,6,7,8	15.00	n/a		
Project	System development, implementation and test	1,2,3,4,5,6,7,8	40.00	n/a		
Project	Final technical report	1,4,7,8	30.00	n/a		
Project	Final presentation and interview	1,2,3,4,5,6	15.00	n/a		
No Practical						
No End of Module Formal Examination						

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



PROJ C4607: Final Year Project

Module Workload

Workload: Full Time					
Workload Type	Frequency	Average Weekly Learner Workload			
Laboratory	Every Week	5.00			
Independent Learning	Every Week	13.00			
	Total Hours	18.00			

Module Delivered In								
Programme Code	Programme	Semester	Delivery					
CW_EEROB_B	Bachelor of Engineering (Honours) in Robotics and Automated Systems	7	Mandatory					