

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 | | | | | | | |
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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



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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 | | | | | |