

PROJ H4605: Development Project

Module Title:	Development Project			
Language of Instructio	English			
Credits:				
NFQ Level:				
Module Delivered In	No Programmes			
Teaching & Learning Strategies:	A critical part of the Team project is the interaction between the project supervisor and the student(s). Students are expected to attend in the laboratory. During this time, they will participate, under supervision, in group and individual learning in order to complete the assigned project. Where students fail to attend, vit skills necessary to complete the project will not be obtained			
Module Aim:	To give the students the knowledge, competencies and skills to plan, implement and execute work effectively as a team member in a virtual industrial environment. Students have to work together and carry out individual tasks upon which the whole team is dependent			

Learning Outcomes		
On successful completion of this module the learner should be able to:		
LO1	Prepare a literature search and arrange a project plan for the team brief	
LO2	Plan, manage and organize work effectively as a team member.	
LO3	Design the necessary hardware / software for the assigned team element of the prototype	
LO4	Evaluate the team element and the overall prototype design using CAD tools	
LO5	Demonstrate self-direction, team organization and problem solving in the formal report	
LO6	Assess ethical issues in relation to the team conduct and prototype design	

Pre-requisite learning

Module Recommendations

This is prior learning (or a practical skill) that is recommended before enrolment in this module.

No recommendations listed

Incompatible Modules
These are modules which have learning outcomes that are too similar to the learning outcomes of this module.

No incompatible modules listed

Co-requisite 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

Indicative Content

Team members will be assigned responsibilities for the following key areas: Team leader (rotating position between team members) Propulsion system Aerodynamics Control system Software / Hardware design System Integration Testing Quality control / budget costs

Initially, the team will be presented with a conceptual design and a budget. The team will have to produce a Project Specification / Objectives Literature search Project management plan Address any ethical issues in relation to the design The supervisor will discuss the assessment plan with the team to ensure a clear understanding

The team will select the plan which meets the objectives within the time allowed for the project

CAD tools will be used for simulation in the development of the design Design software will be used to produce any working drawings for the prototype. Software tools will be used to generate the program design Suitable application software will be used to monitor costs throughout the project

The actual prototype will be developed and any issues with Hardware / Software interfaces addressed

Test

Testing of prototype

PresentationThe student will be required to make a presentation on the progress of his / her project every two weeks. A final presentation by the team or member on the completed design

Log Book

A log of student activity will be maintained throughout the period of the project

Thesis

Formal report on the final project

Assessment Breakdown	%
Project	100.00%

No Continuous Assessment

Project					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Project	The final report is assessed on: Conducting a literature survey using available resources both internal and external to the college. Carrying out a project plan. Initial concept design, system design, and CAD drawings for aviation project. Manufacture, validating and testing through out the process to meet the specification Effort and participation as a team, design innovation and skill in report writing.	1,2,3,4,5,6	70.00	n/a	
Project	Assessment Description % of Total Mark Initial presentations: 5%, Interim presentations 15%. Final presentation 10%. All presentations are made in front of a panel of academic staff and their peers. The academic staff assess the presentation based on structure, time management and delivery.	2,4,5	30.00	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
Independent Learning Time	15 Weeks per Stage	4.00
	Total Hours	60.00