

PROJ C1602: Robotics Project

Module Title	:	Robotics Project			
Language of	f Instruction:	English			
Credits: 10					
Credits:	10				
NFQ Level:	6				
Module Deli	vered In	2 programme(s)			
Teaching & Strategies:	Learning	This module will be delivered through a mix of lectures and class-based activities and project work, including project deliverables and a professional write up.			
Module Aim	:	This module aims to introduce students to project based learning and develop their oral and written communication skills. The module will introduce students to project planning and structured engineering design, while engendering an awareness of ethical and safety issues in engineering. The students will participate actively in writing activities (individually and in collaboration) that model effective scientific and technical communication in the workplace.			
Learning Ou	tcomes				
		his module the learner should be able to:			
LO1	Apply project-b	ased learning to solve unforeseen problems			
LO2	Apply theoretica	al knowledge in solving problems encountered in a team project			
LO3	Discuss any eth	ical issues, environmental impacts and health and safety issues associated with their project			
LO4	Demonstrate go	ood technical report-writing skills			
LO5	Prepare and de	liver an oral presentation			
LO6	Demonstrate ap planning)	ppropriate management techniques in the execution of their project (including time management and project			
Pre-requisit	elearning				
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
Incompatible		re learning outcomes that are too similar to the learning outcomes of this module.			
No incompati	ble modules liste	d			
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 requireme	ents listed				



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Module Content & Assessment

Indicative Content

Project

Project planning, project design (including 3D design and implementation), project development, final testing, project documentation, final presentation

Written communication

Readability, sources of information, logical presentation of material, use of tables and graphics, engineering documents, reports

Presentation

Preparing the presentation, graphics, animation, presentation, hand-outs, preparation for questions

Ethics Professional code of ethics: code of ethics for engineers, citing information, plagiarism, referencing sources, copyright

Assessment Breakdown	%
Project	100.00%

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Multimedia interim presentation	1,2,3,4,5,6	5.00	n/a
Project	Interim report (to include introduction, background, progress to date, ethical considerations, project plan/Gantt chart)	1,2,3,4,6	15.00	n/a
Project	System development, implementation and test	1,2,3,6	30.00	n/a
Project	Final technical report	1,2,3,4,6	20.00	n/a
Project	Final presentation and interview	1,2,3,5,6	10.00	n/a
Project	Group work demonstration (fun class competition aiming to evaluate and asses the dynamics of a group project, managing team work, work distribution within the team, etc.).	1,2,3,4,5,6	20.00	n/a

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			
Lecture	Every Week	2.00			
Laboratory	Every Week	5.00			
Independent Learning	Every Week	11.00			
	Total Hours	18.00			

Module Delivered In						
Programme Code	Programme	Semester	Delivery			
CW_EEROB_B	Bachelor of Engineering (Honours) in Robotics and Automated Systems	2	Mandatory			
CW_EEROO_D	Bachelor of Engineering in Robotics and Automated Systems	2	Mandatory			