



Institiúid Teicneolaíochta Chorcaí
Cork Institute of Technology

ELTR6018: Project Engineering

Module Details

Short Title:	Project Engineering	APPROVED
Full Title:	Project Engineering	
Module Id:	2629	
Official Code:	ELTR6018	NFQ Level: 6
		ECTS Credits: 5

Coordinator:	JOSEPH CONNELL
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Description:	This Module enables the student to develop the skills required to prepare and submit a technical project proposal and to recognise the role of the engineer in society.
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Learning Outcomes:

On successful completion of this module the learner will be able to...

1. Prepare and submit a technical project proposal.
2. Demonstrate the skills and confidence required to present a technical project proposal to a group of peers.
3. Outline the procedures required for the sourcing and purchase of components and hardware.
4. Use an industry standard package for Electronic Design Automation.
5. Recognise the role and responsibilities of the engineer in society.

Pre-requisite learning

Module Recommendations

This is prior learning (or a practical skill) that is strongly recommended before enrolment in this module. You may enrol in this module if you have not acquired the recommended learning but you will have considerable difficulty in passing (i.e. achieving the learning outcomes of) the module. While the prior learning is expressed as named CIT module(s) it also allows for learning (in another module or modules) which is equivalent to the learning specified in the named module(s).

No recommendations listed

Incompatible Modules

These are modules which have learning outcomes that are too similar to the learning outcomes of this module. You may not earn additional credit for the same learning and therefore you may not enrol in this module if you have successfully completed any modules in the incompatible list.

No incompatible modules listed

Module Requirements

This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed. You may not enrol on this module if you have not acquired the learning specified in this section.

No requirements listed



Module Content & Assessment

Indicative Content

- **Project Preparation**
Preparation, use of language, project management, notemaking, planning and layout, writing the report, review and editing, illustrations, tables.
- **Project Presentation**
Delivery techniques, audio-visual aids.
- **Sourcing and Purchasing**
Sources, costing, specifications, datasheets, EU directives.
- **Project Simulation**
Schematic capture, Circuit simulation, PCB Layout, Applying design rules
- **Role of the Engineer**
Organisation structure, team-working, ethics, environment, health and safety.

Assessment Breakdown

	%
Course Work	100%
End of Semester Formal Examination	0%

Coursework Breakdown

<i>Type</i>	<i>Description</i>	<i>Outcome addressed</i>	<i>% of total</i>	<i>Assessment Date</i>
Presentation	Technical project proposal.	1,2,3,4,5	20	Sem End
Written Report	Technical project proposal	1,3,4,5	40	Week 11
Performance Evaluation	Various activities performed in lab.	1,2,3,4,5	40	Every Week

The institute reserves the right to alter the nature and timings of assessment



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Module Workload & Resources

Workload		Full-time mode		
Type	Description	Hours	Frequency	Average Weekly Learner Workload
Lab	Instruction and various discussion based activities, EDA, sourcing components	5	Every Week	5.00
Independent & Directed Learning (Non-contact)	No Description	2	Every Week	2.00
Total Weekly Learner Workload				7.00
Total Weekly Contact Hours				5.00

Workload		Part-time mode		
Type	Description	Hours	Frequency	Average Weekly Learner Workload
Lab	Instruction and various discussion based activities, EDA, sourcing components	3	Every Week	3.00
Independent & Directed Learning (Non-contact)	No Description	4	Every Week	4.00
Total Weekly Learner Workload				7.00

Resources	
<i>Recommended Book Resources</i>	
<ul style="list-style-type: none"> • Ronald A. Reis 2004, <i>Electronic Project Design and Fabrication</i>, 6th Ed., Prentice Hall [ISBN: 0131130544] • John Davies 2001, <i>Communication Skills: A Guide for Engineering and Applied Science Students</i>, 2nd Ed., Prentice Hall [ISBN: 0130882941] 	
<i>Other Resources</i>	
<ul style="list-style-type: none"> • Website: <i>To be advised</i> 	