

Module Title:	Professional Studies
Language of Instruction:	English
Credits:	5
NFQ Level:	8
Module Delivered In	4 programme(s)
Teaching & Learning Strategies:	Lectures, case studies and team work.
Module Aim:	To provide students with the knowledge and skills to manage engineering projects and deal with ethical constraints in professional environments.
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Apply project management skills to engineering projects.
LO2	Evaluate the business requirements for start-up companies.
LO3	Assess ethical constraints in professional environments and the ethical implications of decisions made by engineers.
LO4	Evaluate the attributes of Enterprise Information Systems.
Pre-requisite learning	
Module Recommendations	
<i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules	
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements	
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

Module Content & Assessment

Indicative Content

1. Project Management

Project management skills. Financial & scheduling tools. Organisational planning tools. Risk management: evaluating risks and control measures.

2. Entrepreneurship

Company & contract law. Business funding & finance. Start-up companies. Business plans.

3. Ethics

Safety, health and welfare of co-workers, clients, the public. Sustainable development & awareness of environmental issues. Intellectual property rights. Ethical constraints, ethical decision-making, ethical implications of engineering decisions.

4. Enterprise Information Systems

Management functions & organisational structure. Enterprise Resource Planning. Engineering Change Order.

Assessment Breakdown

%

Continuous Assessment

100.00%

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Other	Students will complete a project, e.g. a business plan for a start-up company.	1,2,3	40.00	n/a
Other	Students will sit a class test. Alternatively they will evaluate a case study.	1,2,3,4	20.00	n/a
Written Report	A final written assignment will examine all learning outcomes.	1,2,3,4	40.00	n/a

No Project

No Practical

No End of Module Formal Examination

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

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Every Week	2.00
Estimated Learner Hours	Every Week	2.00
Total Hours		4.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_EFARG_B	Bachelor of Engineering (Honours) in Agricultural Systems Engineering	8	Mandatory
CW_EEBEE_B	Bachelor of Engineering (Honours) in Biomedical Electronics	8	Mandatory
CW_EESYS_B	Bachelor of Engineering (Honours) in Electronic Engineering	8	Mandatory
CW_EMMEC_B	Bachelor of Engineering (Honours) in Mechanical Engineering	8	Mandatory