

Module Title:	Engineer in Society
Language of Instruction:	English
Credits:	5
NFQ Level:	8
Module Delivered In	2 programme(s)
Teaching & Learning Strategies:	Lectures- 60 hours; Project work- 15 hours; Presentations- 15 hours; Private study- 30 hours
Module Aim:	The aims of this module are: (1) to develop a knowledge of the ethical responsibilities of the Engineer; (2) to develop a knowledge of the legal issues associated with the construction industry; (3) to develop a basic understanding of contract law; (4) to develop a greater knowledge of the principles and practice of project management and health and safety; (5) to improve the students written analysis skills; (6) to enable students to gain the confidence and techniques needed to deliver high-quality professional presentations; (7) to enable students to discuss the theories underpinning good communication. (8) To appreciate the role of engineers in development aid

Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Appreciate ethical issues associated with the Engineering profession
LO2	To appreciate legal issues relevant to Engineering practice, in areas such as Tort, Nuisance, Negligence and Contract Law
LO3	To demonstrate an understanding of human resource management, project management, safety management and the management of other resources in a construction environment
LO4	To prepare, implement and manage a Health and Safety plan.
LO5	To communicate effectively in a logical, precise and coherent manner both orally and in writing

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
The Engineer in Society Roles & Responsibilities; Code of Ethics; Professional Conduct, Appreciation of the role of an Engineer in Developing Countries
Nature and Sources of Irish Law Categories of Law; Sources of Irish Law; Outline of legislation associated with construction, property and buildings
Law of Contract Formation, Contents and Validity of a Contract; Discharge of Contract and Breach of Contract; Contractual Claims; Arbitration and Conciliation
Law of Property and Tort Basics of Law of Property; Basics of Law of Tort; Insurances (including Professional Indemnity)
Project Management Elements of good project management, discussion of case studies
Safety Management Project health and safety documentation; Management of health and safety; Designers and contractors health and safety systems
Communications Communication Theory; Scientific Writing and Reading; Writing Skills; Presentation Skills, Discussion and interaction skills, media awareness and handling

Assessment Breakdown	%
Continuous Assessment	50.00%
Project	50.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	Term 1 Examination	1,2,3,5	25.00	n/a
Examination	Term 2 Examination	2,3,5	25.00	n/a

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Project 1	1,2,3,4,5	25.00	n/a
Project	Project 2	1,5	25.00	n/a

No Practical

No End of Module Formal Examination

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

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	30 Weeks per Stage	2.00
Estimated Learner Hours	30 Weeks per Stage	2.00
Total Hours		120.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_CMHCE_B	Bachelor of Engineering (Honours) in Civil Engineering - Ab Initio	7	Mandatory
CW_CMCEN_B	Bachelor of Engineering (Honours) in Civil Engineering - Add On	3	Mandatory