

APPROVED**ENVI7006: Environmental Assessment****Module Details**

Module Code:	ENVI7006
Title:	Environmental Assessment APPROVED
Long Title:	Environmental Assessment
NFQ Level:	Intermediate
Valid From:	Semester 1 - 2019/20 (September 2019)
Duration:	1 Semester
Credits:	5
Field of Study:	5810 - Architecture & Urban Environment
Module Delivered in:	2 programme(s)
Module Description:	This modules focuses on the sustainable features associated with dwellings: energy, material selection, health & well-being, inclusiveness and adaptability.

Learning Outcomes

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

#	Learning Outcome Description
LO1	Perform calculations (using DEAP software or equivalent) to demonstrate compliance with TGD Part L - Dwellings & NZEB.
LO2	Propose strategies for building(s) to demonstrate incorporation of sustainable features typically associated with Building Assessment Methods, Universal Design and Lifetime Homes Standard.
LO3	Propose solutions for apartment building(s) to demonstrate compliance with national design standards and policies of local planning authorities.

Dependencies**Module Recommendations****Incompatible Modules**

No incompatible modules listed

Co-requisite Modules

No Co-requisite modules listed

Requirements

No requirements listed

Indicative Content**Thermal Bridging**

Introduction to thermal bridging and examples of typical problems & solutions to poor thermal bridging detailing.

Regulation

Theory behind energy assessment and application of a software package to a residential unit in compliance with T.G.D. Part L Dwellings & NZEB

Sustainable house/apartment design.

Application of industry recognised building assessment methods/standards, 'Lifetime Homes' Criteria, Universal Design Principles and sustainable planning guidelines to housing units in an Irish context.

Module Content & Assessment

Assessment Breakdown	%
Coursework	100.00%

Assessments

Coursework			
Assessment Type	Project	% of Total Mark	20
Timing	Week 5	Learning Outcomes	1
Assessment Description Evaluate an existing residential building's performance with TGD Part L Dwellings including justification of compliance.			
Assessment Type	Project	% of Total Mark	35
Timing	Week 12	Learning Outcomes	2,3
Assessment Description Redesign a residential unit to meet the sustainability requirements associated with typical building assessment methods in the sector and national & local design standards.			
Assessment Type	Presentation	% of Total Mark	45
Timing	Sem End	Learning Outcomes	1
Assessment Description Undertake a critical analysis of a residential unit design to demonstrate compliance with TGD Part L & NZEB using a software package.			
No End of Module Formal Examination			
Reassessment Requirement			
Coursework Only This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.			

Module Workload

Workload: Full Time					
Workload Type	Contact Type	Workload Description	Frequency	Average Weekly Learner Workload	Hours
Lecture	Contact	Course Content	Every Week	4.00	4

Independent & Directed Learning (Non-contact)	Non Contact	Self Study	Every Week	3.00	3
				Total Hours	7.00
				Total Weekly Learner Workload	7.00
				Total Weekly Contact Hours	4.00
Workload: Part Time					
<i>Workload Type</i>	<i>Contact Type</i>	<i>Workload Description</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>	<i>Hours</i>
Lecture	Contact	Course Content	Every Week	4.00	4
Independent & Directed Learning (Non-contact)	Non Contact	Self Study	Every Week	3.00	3
				Total Hours	7.00
				Total Weekly Learner Workload	7.00
				Total Weekly Contact Hours	4.00

Module Resources

This module does not have any book resources

This module does not have any article/paper resources

Other Resources

Website, Dept. of Housing, Planning & Local Government. (2018), Design Standards for New Apartments, Guidelines for Planning Authorities, Dublin, <http://www.housing.gov.ie>

Website, Lifetime Homes Standard, <http://www.lifetimehomes.org.uk/>

Website, nda. Universal Design Guidelines for Homes in Ireland, <http://universaldesign.ie>

Website, SEAI DEAP Manual, http://www.seai.ie/resources/publications/DEAP_Manual.pdf

Website, HARP Database, <http://www.seai.ie/energy-in-business/better-assessor/harp-database>

Website, SAP Appendix Q database, <https://www.ncm-pcdb.org.uk/sap/page.jsp?id=18>

Website, Dept. of Housing, Planning & Local Govt.. TGD Part L Dwellings, Dublin, The Stationary Office.

Module Delivered in

Programme Code	Programme	Semester	Delivery
CR_CARCT_8	Bachelor of Science (Honours) in Architectural Technology	-1	Mandatory
CR_TARCH_7	Bachelor of Science in Architectural Technology	-1	Mandatory