

TECH C1508: Domestic Technology and Structural Appreciation 2

	~	University				
Module Title:		Domestic Technology and Structural Appreciation 2				
Language of Instruction:		English				
Credits:	5					
NFQ Level:	6					
Module Delivered In		<u>3 programme(s)</u>				
Teaching & Strategies:	Learning	Lectures, Practical's, Private study				
Module Aim:		The aims of the module are: (1) to provide students with a knowledge of the techniques, methods and practices used in the construction of buildings; (2) To introduce students to the concept of sustainable building; (3) To give students a basic introduction to some aspects of structural design and an appreciation of what is involved.				
Learning Ou	utcomes					
On successf	ul completion c	f this module the learner should be able to:				
LO1	to apply the methodologies used for setting out buildings on site and to illustrate how the foundations for buildings are constructed					
LO2	to describe and illustrate how the walls, roofs and ground floors of buildings are constructed on site and off site and how the internal space in buildings is divided by partitions and floors					
LO3	Demonstrate a knowledge and understanding of force and moment, their units and their application to loads, load types, stress, strain, load paths, including construction of simple shear force and bending moment diagrams					
LO4	Demonstrate a knowledge of structural form and uses within structure - columns, beams, walls and foundations, a knowledge of Rules of Thumb regarding sizing of elements of construction projects					
LO5	to select building materials new and existing that do not damage the environment, to understand health and safety issues on site and have an awareness of current legislation and building regulations in construction methods.					
LO6	Demonstrate a knowledge and ability to undertake calculations of force and moment, their units and their application to loads, load types, stress, strain, load paths, including construction of simple shear force and bending moment diagrams					
Pre-requisite learning						
	ommendation learning (or a p	s ractical skill) that is recommended before enrolment in this module.				
No recomme	endations listed					
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.						
No incompatible modules listed						
Co-requisite	e 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 requirements listed						



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Module Content & Assessment

Indicative Content

Superstructure

(a) External walls, (b) roofs, (c) upper floors, (d) internal/partition walls, (e) stairs, (f) movement joints (g) Sustainable building materials and technologies, (h) off site modular construction, (i) Construction Technologies (j) Insulation materials and fabric technologies (k) Fireplaces and flues, components, and finishes, (l) Material selection

Stress and Strain

(a) Stress, strain, elasticity (b) Stress/ strain graphs, (c) Steel, concrete, reinforced concrete

Practical/lab Work

(a) Freehand Sketching Section through external wall and roof Fireplace details. Window and door schedule. Stair details Roof details. (b) Loading of unreinforced vs. reinforced concrete

Assessment Breakdown	%
Continuous Assessment	15.00%
Project	40.00%
End of Module Formal Examination	45.00%

Continuous Assessment					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Case Studies	n/a	2,4,5	15.00	n/a	

Project					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Project	n/a	2,4,5,6	40.00	n/a	

No Practical

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	n/a	1,2,3,4,5,6	45.00	End-of-Semester	

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	5.00
Estimated Learner Hours	Every Week	5.00
	Total Hours	10.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_CMOPT_B	Bachelor of Science (Honours) in Construction Management	2	Mandatory
CW_CMQSU_B	Bachelor of Science (Honours) in Quantity Surveying	2	Mandatory
CW_CMBSE_D	Bachelor of Science in Construction Management	2	Mandatory