

# DSGN H5501: Structural Design II

Module Title	:		Structural Design II		
Language of Instruction:		on:	English		
Credits:		5			
		-			
NFQ Level:	NFQ Level: 8				
Module Deli	Module Delivered In 2 programme(s)				
Teaching & Strategies:	Learning		Lectures, Project work, Private study		
Module Aim:			The aims of this module are: 1) to extend the learner's knowledge of structural design in reinforced concrete and structural steelwork; 2); to enable the learner's to apply structural principles to the design of timber structures; 3) to enable the learner's to apply structural principles to the design of masonry elements.		
Learning Ou	tcomes				
On successf	On successful completion of this module the learner should be able to:				
LO1	1 describe and design structural foundation in reinforced concrete for broadly defined engineering problems to the relevant National and European design standards.				
LO2	describe and design reinforced concrete retaining walls to the relevant National and European design standards.				
LO3	describe and design steel portal frame type buildings to the relevant National and European design standards.				
LO4	describe and design steel and concrete composite floor beams for broadly defined engineering problems to the relevant National and European design standards.				
LO5	LO5 describe and design structural timber elements for broadly defined engineering problems to the relevant National and European design standards.				
LO6	.06 describe and design load bearing masonry walls for broadly defined engineering problems to the relevant National and European design standards.				
Pro roquisit	loarning				
Modulo Roc	ommonda	tions			
This is prior l	earning (o	r a prac	ctical skill) that is recommended before en	rolment in this module.	
6567	1	DSGN	H4501	Structural Design I	
6804 ANAL H4501		14501	Structural Analysis I		
Incompatible These are m	e <b>Modules</b> odules wh	<b>s</b> ich hav	e learning outcomes that are too similar to	o the learning outcomes of this module.	
No incompati	ncompatible modules listed				
Co-requisite	Modules				
No Co-requis	ite module	es listed	1		
<b>Requiremen</b> This is prior l	<b>ts</b> earning (o	r a prac	ctical skill) that is mandatory before enroln	nent in this module is allowed.	

No requirements listed



### DSGN H5501: Structural Design II

## Module Content & Assessment

110 1 100100	No	Practical	
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End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Final Exam	1,2,3,4,5,6	60.00	End-of-Semester

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



### DSGN H5501: Structural Design II

## Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	30 Weeks per Stage	3.00
Estimated Learner Hours	30 Weeks per Stage	4.17
	Total Hours	215.00

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	