

THES H4504: Technical Design and Detailing IV

Module Title:			Technical Design and Detailing IV			
Language of Instruction:		n:	English			
Credits: 30		30				
NFQ Level:		8				
Module Delivered In			No Programmes			
Teaching & Learning Strategies:			Project-based learning in Studio environment to assist students' to develop "problem- solving" skill to an advanced level . One-to-one detail reviews/tutorials and group 'crits' to provide student feedback. International and local Technical study trips to expose students to specialist building interventions and to the latest and advanced technical/technological innovations happening in the building industry.			
Module Aim:			The Aim of this module is to: • To develop students' ability to produce construction stage detailed drawings and supporting documentation to an advanced level, including concept technical design development. • To support students to evolve an individual approach to own work based on research and reflection. • Further develop technical design processes and research skills required to approach different specialist areas within the profession.			
Learning Outcomes						
On successfu	I completio	n of th	nis module the learner should be able to:			
LO1	A knowledge of how to undertake an evaluation and analysis of complex project briefs.					
LO2	An ability to structure a clear methodology for the project plan of work, and to establish appropriate supporting documentation					
LO3	An ability to undertake research and systematic analysis, using available information and evidence to construct reasoned responses for material and technology choices made in studio projects					
LO4	An understanding of how to evaluate and problem solve technical details in response to specific project requirements and context.					
LO5	Knowledge of core construction legislation, regulations and related codes and standards		pre construction legislation, regulations and related codes and standards			
LO6	An ability to produce technical drawings and written technical documentation for existing and new buildings		duce technical drawings and written technical documentation for existing and new buildings			
LO7	An ability to complete work with a high level of graphical communication/presentation skills using leading edge software tools					
Pre-requisit	elearning					
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.						
No recommendations 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 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.

Students are required to have the basic skills to produce working drawings using Revit 2013 software.



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Module Content & Assessment

Indicative Content

Project 1: CONSERVATION

This project, which links to the Module CONSERVATION & REFURBISHMENT, uses a building project as a vehicle to develop specific skills in working with existing historic buildings. A legally Protected Structure is the focus here, and examples such as medium scale Industrial or Educational buildings of architectural heritage value are suitable.

Project 2:THESIS

The project uses a Medium complexity building type as a vehicle to develop specific skills in design and detailing of low-energy, environment friendly buildings and 'green' construction technologies. This project uses BREEAM Environmental assessment methodology as a guiding framework to evaluate design decisions for the buildings, to achieve a good BREEAM rating. Building types include, Schools and educational buildings, Small scale retail developments etc.

Assessment Breakdown	%	
Project	100.00%	

No Continuous Assessment

Project								
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date				
Project	n/a	1,2,3,4,5,6,7	45.00	Sem 1 End				
Project	n/a	1,2,3,4,5,6,7	55.00	Sem 2 End				

No Practical

No End of Module Formal Examination

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		Average Weekly Learner Workload				
Studio Based Learning	30 Weeks per Stage	10.00				
Independent Learning		10.00				
	Total Hours	600.00				