

Module Title:	Technical Design and Detailing IV
Language of Instruction:	English
Credits:	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	
<i>On successful completion of this module the learner should be able to:</i>	
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
LO6	An ability to produce 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-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>	
Students are required to have the basic skills to produce working drawings using Revit 2013 software.	

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

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Studio Based Learning	30 Weeks per Stage	10.00
Independent Learning	30 Weeks per Stage	10.00
Total Hours		600.00

