

<b>Module Title:</b>	Construction Technology I
<b>Language of Instruction:</b>	English
<b>Credits:</b>	10
<b>NFQ Level:</b>	6
<b>Module Delivered In</b>	No Programmes
<b>Teaching &amp; Learning Strategies:</b>	Lectures Practical's Private study
<b>Module Aim:</b>	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.
<b>Learning Outcomes</b>	
<i>On successful completion of this module the learner should be able to:</i>	
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 and how the internal space in buildings is divided by partitions and floors
LO3	to select building materials 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.
<b>Pre-requisite learning</b>	
<b>Module Recommendations</b> <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
<b>Incompatible Modules</b> <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
<b>Co-requisite Modules</b>	
No Co-requisite modules listed	
<b>Requirements</b> <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

## Module Content & Assessment

Indicative Content
<b>1. Building General (10 hours lectures)</b> (a) Need for buildings, functions of buildings
<b>2. Building Sites (20 hours lectures)</b> (a) Site conditions, preliminaries, site works and safety
<b>3. Substructure (30 hours lectures)</b> (a) Foundations, types and choice, setting-out and construction
<b>4. Superstructure (60 hours lectures)</b> (a) External walls, roofs, floors, internal/partition walls (b) Sustainable building materials and technologies (c) Insulation materials and fabric technologies (d) Fireplaces and flues, components and finishes
<b>5. Practical Work</b> (a) Building practice: setting out shallow/ deep strip foundations, masonry walling, roofs and floors. (b) Materials handling and storage (c) Site safety. (d) Site visit to housing site (e) Freehand Sketching Section through external wall and roof Fireplace details. Window and door schedule. Stair details Roof details.

Assessment Breakdown	%
Project	40.00%
End of Module Formal Examination	60.00%

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	No Description	1,2,3	40.00	Sem 1 End

No Practical

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	No Description	1,2,3	60.00	End-of-Semester

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

**Module Workload**

<b>Workload: Full Time</b>		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	30 Weeks per Stage	4.00
Estimated Learner Hours	30 Weeks per Stage	1.83
Total Hours		175.00

