

<b>Module Title:</b>	Land Surveying
<b>Language of Instruction:</b>	English
<b>Credits:</b>	5
<b>NFQ Level:</b>	6
<b>Module Delivered In</b>	<a href="#">3 programme(s)</a>
<b>Teaching &amp; Learning Strategies:</b>	Lectures Practical's Private study Blackboard
<b>Module Aim:</b>	The aims of the module are: (1) to develop a knowledge of basic surveying techniques (2) to train the student in field levelling procedures (3) to apply the principles of linear surveying, topographic mapping and longitudinal sectioning
<b>Learning Outcomes</b>	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	to demonstrate use of the engineering level competently in the area of construction & for collection of data for preparation of contour maps & longitudinal sections
LO2	to demonstrate knowledge of & apply surveying techniques for collecting surveying data in basic linear surveying of small sites
LO3	to demonstrate knowledge of & use drafting techniques to produce contour maps and longitudinal sections.
<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) Linear Surveying</b> (a) Field Procedures (b) Field Obstacles (c) Booking Procedures (d) Ordnance Survey Mapping (e) Building Surveying (f) Errors in Surveying (g) Introduction to setting out of a domestic house
<b>(2) Area Computation</b> (a) By triangulation (b) Simpsons Rule for Area Evaluation (c) Trapezoidal Rule for area evaluation (d) Cut and Fill Calculations
<b>(3) Surveying for Height</b> (a) Ordnance datum and Bench Marks (b) Optical Levels (c) Field Procedures (d) Permanent Adjustments (e) Longitudinal Sections (f) Contour Maps (g) Use of level for Building work, drainage and sewage

Assessment Breakdown	%
Continuous Assessment	60.00%
Practical	40.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	n/a	1,2,3	60.00	n/a

No Project

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	No Description	1,2,3	40.00	n/a

No End of Module Formal Examination

**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	12 Weeks per Stage	1.00
Practicals	12 Weeks per Stage	3.00
Estimated Learner Hours	12 Weeks per Stage	8.00
Total Hours		144.00

**Module Delivered In**

Programme Code	Programme	Semester	Delivery
CW_CMOPT_B	<a href="#">Bachelor of Science (Honours) in Construction Management</a>	1	Mandatory
CW_CMQSU_B	<a href="#">Bachelor of Science (Honours) in Quantity Surveying</a>	1	Mandatory
CW_CMBSE_D	<a href="#">Bachelor of Science in Construction Management</a>	1	Mandatory