

## SURV C1501: Surveying and Setting Out I

Module Title:			Surveying and Setting Out I			
Language of Instruction:		n:	English			
Quality	I	-				
Credits: 5		5				
NFQ Level: 6		6				
Module Delivered In			1 programme(s)			
Teaching & Learning Strategies:			Lectures Practicals Private study Blackboard			
Module Aim:			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 introduce the student to surveying software packages. Students must participate in class work, practical work & project work and must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes listed above.			
Learning Ou	itcomes					
On successfi	ul completior	n of th	is module the learner should be able to:			
LO1	Demonstrate & use the engineering level competently in the area of construction & for collection of data for preparation of contour maps & longitudinal sections;					
LO2	Apply surveying techniques for collecting surveying data in basic linear surveying of small sites;					
LO3	Use manual drafting and surveying software packages to produce contour maps and longitudinal sections					
Pre-requisite learning						
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.						
No recommendations listed						
<i>Incompatible Modules</i> 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						
<b>Requirements</b> This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.						
No requirements listed						



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### Module Content & Assessment

Indicative Cor	ntent				
(1) Linear Sur (a) Field Proce	veying dures (b) Field Obstacles (c) Booking Procedures (d) Ordnance Survey I	Mapping			
(2) Area Comp (a) By triangula	putation ation (b) Simpsons Rule for Area Evaluation (c) Trapezoidal Rule for area	a evaluation			
	<b>g Level</b> For Height (b) Ordnance datum and Bench Marks (c) Optical Levels (d) F ections (g) Contour Maps (h) Use of level for Building work, drainage and		es (e) Permane	ent Adju	stments (f)
(4) Computer (a) Introduction	Application to software packages for production of Contour maps, sections and digi	itised maps			
Assessment E	Breakdown	%			
Continuous As	sessment		100.00%		
Continuous A	ssessment				
Assessment Type	Assessment Description	Outcome addresse		% of otal	Assessment Date
Other	Students will participate in and complete a number of surveying practical's and produce detailed write-ups on same.	1,2,3	1	00.00	n/a
No Project					
No Practical					
	lule 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	Frequency	Average Weekly Learner Workload			
Lecture	12 Weeks per Stage	1.00			
Practicals	12 Weeks per Stage	3.00			
Estimated Learner Hours	12 Weeks per Stage	6.50			
	Total Hours	126.00			

Module Delivered In									
Programme Code	Programme	Semester	Delivery						
CW_CMCIV_D	Bachelor of Engineering in Civil Engineering	2	Mandatory						