

No requirements listed

## SURV C1501: Surveying and Setting Out I

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Module Title:		Surveying and Setting Out I			
Language o	f Instruction:	English			
Credits: 5					
NFQ Level:	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	Learning Outcomes				
On successf	On successful completion of this 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 recomme	No recommendations listed				
	Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.				
No incompat	No incompatible modules listed				
Co-requisite	e Modules				
No Co-requis	No Co-requisite modules listed				
	Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.				



## SURV C1501: Surveying and Setting Out I

#### **Module Content & Assessment**

#### **Indicative Content**

- (1) Linear Surveying
  (a) Field Procedures (b) Field Obstacles (c) Booking Procedures (d) Ordnance Survey Mapping
- (2) Area Computation
  (a) By triangulation (b) Simpsons Rule for Area Evaluation (c) Trapezoidal Rule for area evaluation
- (3) Engineering Level
  (a) Surveying For Height (b) Ordnance datum and Bench Marks (c) Optical Levels (d) Field Procedures (e) Permanent Adjustments (f) Longitudinal Sections (g) Contour Maps (h) Use of level for Building work, drainage and sewage
- (4) Computer Application
  (a) Introduction to software packages for production of Contour maps, sections and digitised maps

Assessment Breakdown	%	
Continuous Assessment	100.00%	

Continuous As	Continuous Assessment			
Assessment Type	Assessment Description	Outcome addressed	% of total	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	100.00	n/a

No Project	
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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	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