

SURV H1501: Surveying and Setting Out I

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Module Title:			Surveying and Setting Out I			
Language of Instruction:		n:	English			
Credits:		5				
Creaits: 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	itcomes					
On successfu	ul completio	n of th	nis module the learner should be able to:			
LO1	to understand & use the engineering level competently in the area of construction & for collection of data for preparation of contour maps & longitudinal sections;					
LO2	to understand & apply surveying techniques for collecting surveying data in basic linear surveying of small sites;					
LO3	to understand & use manual drafting and surveying software packages to produce contour maps and longitudinal sections					
Pre-requisite	e learning					
Module Rec This is prior l			ctical skill) that is recommended before enrolment in this module.			
No recomme	ndations list	ed				
Incompatible Modules 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						
Requirements 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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End-of-Semester

60.00

Module Content & Assessment

Indicative Content									
(1) Linear Surveying ((a) Field Procedures (b			iour practicals) Booking Procedures (d) Ordnan	ce Survey Map	ping				
(2) Area Computation (a) By triangulation (b)			rea Evaluation (c) Trapezoidal R	ule for area eva	aluation				
(3) Engineering Level (a) Surveying For Heigl Longitudinal Sections (ht (b) Ord	nance datu	, 20 hours practical) Im and Bench Marks (c) Optical L Use of level for Building work, dr	evels (d) Field	Procedu wage	ıres (e) P	erma	nent Adju	istments (f)
(4) Computer Application (a) Introduction to software	tion (2 ho vare pack	our lecture ages for pro	, 5 hours application) oduction of Contour maps, sectio	ns and digitise	d maps				
Assessment Breakdown					%				
Continuous Assessment					10.00%				
Practical					30.00%				
End of Module Formal Examination						60.00%			
Continuous Assessm	ent								
Assessment Type	Assess	sment Desc	cription		Outcor addres			% of total	Assessment Date
Examination	1 on 1	Demonstra	tion of Instrument Use Capability	r	1,2,3	3		10.00	n/a
No Project									
Practical									
Assessment Type			Assessment Description		Outcome addressed			% of total	Assessment Date
Practical/Skills Evaluation			3 - 5 Field Survey Practicals		1,2,3			30.00	n/a
End of Module Forma	l Examin	ation							
Assessment Type Assess			ent Description	Outcome addressed		% of total	Assessment Date		

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

Final Examination

Formal Exam



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	30 Weeks per Stage	1.00
Practicals	30 Weeks per Stage	1.00
Estimated Learner Hours	30 Weeks per Stage	3.00
	Total Hours	150.00

Module Delivered In							
Programme Code	Programme	Semester	Delivery				
CW_CMHCE_B	Bachelor of Engineering (Honours) in Civil Engineering - Ab Initio	1	Mandatory				