

SURV H1502: Surveying

Villeday					
Module Title:		Surveying			
Language of Instruction:		English			
Credits:	Ę	5			
NFQ Level	: 6	6			
Module De	elivered In	1 programme(s)			
Teaching Strategies	& Learning	Lectures Practical's 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.			
Learning (Outcomes				
On succes	sful completion	of this module the learner should be able to:			
LO1	to demonstrate use of the engineering level competently in the area of construction & for collection of data for preparation 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 demonstr	to demonstrate knowledge of & use surveying software packages to produce contour maps and longitudinal sections.			
Pre-requis	site learning				
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
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

RequirementsThis 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 Content

(1) Linear Surveying (8 hour lectures, 5 hour practical's)

(a) Field Procedures (b) Field Obstacles (c) Booking Procedures (d) Ordnance Survey Mapping (e) Building Surveying (f) Measured Survey Drawing of Entrance Gates to Institute of Technology, Carlow (g) Plan, Section and Elevation of Small Single Storey Domestic Dwelling.

(2) Area Computation (6 hours lectures)
(a) By triangulation (b) Simpsons Rule for Area Evaluation (c) Trapezoidal Rule for area evaluation (d) Cut and Fill Calculations

(3) Surveying for Height (14 hours lectures, 20 hours practical)
(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

(4) Computer Application (2 hour lecture, 5 hours application)
(a) Introduction to software packages for production of Contour maps, sections and digitised maps

Assessment Breakdown	%
Continuous Assessment	10.00%
Practical	30.00%
End of Module Formal Examination	60.00%

Continuous Assessment					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Examination	10% 1 on 1 Demonstration of Instrument Use Capability	1,2,3	10.00	n/a	

No Project

Practical					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Practical/Skills Evaluation	No Description	1,2,3	30.00	n/a	

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



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	30 Weeks per Stage	0.83
Practicals	30 Weeks per Stage	1.17
Estimated Learner Hours	30 Weeks per Stage	3.00
	Total Hours	150.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_CMBSE_D	Bachelor of Science in Construction Management with Buildings Services	1	Mandatory