

DRAW C2501: Civil Engineering Drawing + BIM

Module Title	:	Civil Engineering Drawing + BIM
Language of	f Instruction:	English
Credits:	10	
NFQ Level:	6	
Module Deliv	vered In	2 programme(s)
Teaching & Learning Strategies:		Lectures Practicals Private Study
Module Aim:		The aims of Civil Engineering Drawing portion of this module are: 1) to develop a practical knowledge of creating, editing and printing general arrangement and detailed drawings for Civil Engineering works using AutoCAD. (2) to create and edit basic structural BIM models using Autodesk Revit.
Learning Ou	tcomes	
On successfu	I completion of th	his module the learner should be able to:
LO1		ering drawings including general arrangement drawings, reinforcement drawings and (a) sections and ; (b) fabrication drawings for structural steelwork elements.
LO2	Prepare longitud	dinal drainage sections and plans for drainage drawings
LO3	Layout and print	t drawings using appropriate drawing layers, drawing scales etc
LO4	Create edit and	plot views of structural building information models using Autodesk Revit
Pre-requisite	elearning	
	ommendations earning (or a prac	ctical skill) that is recommended before enrolment in this module.
No recomme	ndations listed	
Incompatible		e learning outcomes that are too similar to the learning outcomes of this module.
No incompati	ble modules liste	d
Co-requisite	Modules	
No Co-requis	ite modules listed	1
Requiremen This is prior le		ctical skill) that is mandatory before enrolment in this module is allowed.
No requireme	ents listed	



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Module Content	& Assessment				
Indicative Content					
	Detailing section dimensions b) Bolted connections and welded connections olumn to foundation connections,	c) Beam to	o column con	nections,	d) Beam to
	upply Layouts and Sections er layout drawings, b) Longitudinal sections, c) Pipe bedding, back & hydrant chambers	fill and surf	ācing. d) Ma	nholes, e)) Water main
f) Floor stairs and ramp	vit rids b) Modelling basics c) Revit families d) Structural walls, colum s g) Adding surface terrain h) Structural reinforcement i) Schedules ng sheets plotting and publishing				
Computer Application a) Software Package Au	s utoCAD b) Software Package AutoCAD Civil 3D				
Reinforced Concrete I a) Detailing of Columns					
Assessment Breakdov	Nn -		%		
Practical			100.00%		
No Continuous Assessr	nent				
No Project					
Practical					
Assessment Type	Assessment Description	Outcome addresse		% of total	Assessment Date
Practical/Skills Evaluation	Students will prepare models and drawings for various Civil Engineering applications	1,2,3,4		100.00	n/a
No End of Module Form	al 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
Practicals	12 Weeks per Stage	7.00
Independent Learning	12 Weeks per Stage	7.00
	Total Hours	168.00

Module Delivered In							
Programme Code	Programme	Semester	Delivery				
CW_CMHCE_B	Bachelor of Engineering (Honours) in Civil Engineering	4	Mandatory				
CW_CMCIV_D	Bachelor of Engineering in Civil Engineering	4	Mandatory				