

PROJ C3G03: Integrated Construction Technology Project

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Module Title:		Integrated Construction Technology Project		
Language of Instruction:		English		
Credits: 5				
NFQ Level: 6				
Module Del	ivered In	<u>3 programme(s)</u>		
Teaching & Learning Strategies:		Lectures Practicals Site Visits Private study Project work		
Module Aim:		To provide the student with the opportunity to apply and develop the knowledge and skills learned on the programme to solve construction problems, and in doing so extend the student's experience in problem solving, communication, teamwork, project management and construction technology.		
Learning O	utcomes			
On success	ful completion of t	his module the learner should be able to:		
LO1	to develop problem solving abilities by identifying the problem/s and proposing both standard and innovative built environment solutions for a realistic development / re-development projects			
LO2		to develop critical thinking by evaluating the proposed solutions in terms of time, cost, quality, safety and compliance with legislation / regulations		
LO3	to apply technical knowledge and skills from other programme modules to the proposed solutions including the application of BIM where appropriate.			
LO4	to develop project, time management, project reporting, report writing, presentation, peer evaluation and project defence skill in completing the research project			
Pre-requisit	te learning			
	commendations learning (or a pra	ctical skill) that is recommended before enrolment in this module.		
No recomme	endations listed			
Incompatib These are m		re learning outcomes that are too similar to the learning outcomes of this module.		
No incompat	tible modules liste	d		
Co-requisit	e Modules			
No Co-requi	site modules liste	d		
Requirement This is prior		ctical skill) that is mandatory before enrolment in this module is allowed.		
No requirem	ents listed			



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Module Content & Assessment

Indicative Content

Creativity & Problem Solving

a) Generating Creative Ideas; b) Key Principles for Encouraging Creativity; c) Linking Problems & Solutions; d) Defining Problems; e) Problem Solving; f) Evaluating and Selecting Ideas in a Group;

Critical Thinking

a) Interpreting express and implied meanings; b) Thinking logically; c) Formulating problems clearly and precisely; d) Gathering and assessing relevant information; e) Using abstract ideas to interpret it effectively; f) Coming to well-reasoned conclusions and solutions; g) Testing conclusions & solutions against relevant criteria and standards; h) Recognizing and assessing assumptions, implications, and practical consequences; i) Communicating effectively with others in figuring out solutions to complex problems;

Working in Teams

a) Purpose and value of teams; b) When teams are appropriate and when they are not; c) Team formation and operation; d) Dealing with Extrovert / Introvert team members; e) Phases of team building & understanding negative team processes; f) Team conflict resolution; g) Team talent management; h) Effective evaluation techniques; i) Application of team building activities

Outline Project Brief

a) Teams of 3/4 students; b) Outline proposals for development / re-development of a property; c) Promote competition between teams; d) Team proposals evaluated on basis of technical feasibility, innovation and economic feasibility

Personal Development

a) Time Management b) Presentation Skills c) Interview Skills d) Academic / technical writing skills

Building Information Modelling Assistance

Use of BIM to support the Integrated Construction Technology Project

Assessment Breakdown	%	
Project	100.00%	

No Continuous Assessment

Project						
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date		
Project	In groups of 3/4, students to be issued with 3 of the indicative options below. Project 1 - Options for Piling Selection (2,500 word report) (10 minute presentation) Project 2 - Options for Building Base Selection (2,500 word report) (10 minute presentation) Project 3 - Options for Walls, Floors Selection (2,500 word report) (10 minute presentation) Project 4 - Options for Upper Floors Selection (2,500 word report) (10 minute presentation) Project - Options for Roof Selection (2,500 word report) (10 minute presentation)	1,2,3,4	100.00	n/a		
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		Average Weekly Learner Workload				
Lecturer-Supervised Learning (Contact)	12 Weeks per Stage	4.00				
Estimated Learner Hours		8.00				
	Total Hours	144.00				

Module Delivered In Programme Code Programme Semester CW_CMOPT_B Bachelor of Science (Honours) in Construction Management 5 CW_CMQSU_B Bachelor of Science (Honours) in Quantity Surveying 5

Bachelor of Science in Construction Management

CW_CMBSE_D

Delivery

Mandatory

Mandatory

Mandatory

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