

MGMT C4G01: BIM Management Process

Module Title:			BIM Management Process		
Language of Instruction:		n:	English		
Credits:		5			
NFQ Level:		7			
Module Deliv	ered In		1 programme(s)		
Teaching & Learning Strategies:			Lectures Practical's Private study Lecture format utilised to provide theoretical instruction in BIM software tools.		
Module Aim:			It is the aim of this module to equip practitioners with the requisite knowledge and tools to ensure that information is organized and controlled during the construction procurement process and throughout the lifecycle of the building, in a manner that is as efficient and supportive as possible, based on the exploita and use of BIM models and tools.		
Learning Out	comes				
On successfu	l completic	on of th	nis module the learner should be able to:		
LO1	software to document	Evaluation of Model - Interact with, evaluate & interrogate BIM models to derive relevant 4D/5D/6D outputs using appropriate oftware tools. Insight into how BIM tools can be used throughout the building life cycle, beyond the design and locumentation. Use BIM models to support construction techniques, construction planning, cost and quantity feedback, abrication, and facilities management			
LO2	building th	rocess/Collaboration - Learn and evaluate the interaction processes involved in designing, constructing and managing a uilding through use of BIM models and data sets, including the importance of collaborative working between disciplines ationally and internationally and influence/apply techniques and competencies to working collaboratively through BIM.			
LO3	Management - Critically analyse and select BIM management techniques to achieve the desired deliverables/handover and performance outcomes, through project, facilities and operations management, taking into account their social and economic global impacts.				
Pre-requisite	learning				
Module Reco This is prior le			ctical skill) that is recommended before enrolment in this module.		
No recommen	idations lis	ted			
Incompatible These are mo		ch hav	e 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					
Requirement This is prior le		a prac	ctical skill) that is mandatory before enrolment in this module is allowed.		
No requireme	nts listed				



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Module Content & Assessment

Indicative Content

REVIT / BIM Technical

KEVII / BIM Lechnical
The concept of through - 3D models, 3D validation models, 3D model take-off, 3D digital survey models, BIM models maintenance, 2D CAD drafting, 2D CAD drawing from a 3D BIM model, 4D/5D modelling plan drawings, Schedules, Room numbering diagrams, Colour filled diagrams, Bracing diagrams, Isometric building plans, Spool drawings, Employers Information Requirements (EIR), Project Information Requirements (PIR), Clash prevention, Clash detection reports, Visualisations: renders and animations, Virtual tours: walkthroughs, fly-throughs, BIM Execution plan (BEP), BS (PAS) 1192 — Parts 1 to 5 or BS ISO 19650, Classifications, Digital Plan of Work (describing level of detail — LoD/CIC Work Stages), Intelligent 3D libraries, Asset performance optimisation, COBie (Construction Operations Building Information Exchange)

BIM Implementation

• Building industry challenges and opportunities • The business value of BIM and integrated design • BIM deployment strategies • Design collaboration • Barriers to adoption • BIM for Contractors • BIM for Facilities Management • Lessons from early adoption

Assessment Breakdown	%	
Project	100.00%	

No Continuous Assessment

Project								
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date				
Project	Formative assessment given through one-to-one reviews/tutorials and group/class 'crits' & reviews • Structured marking of projects as continuous assessment, involving allocation of marks for: - Final drawings, details, specifications, schedules, reports, presentations and posters 100%	1,2,3	100.00	End-of- Semester				
No Drestinal			-	-				
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	4.00			
Estimated Learner Hours	12 Weeks per Stage	6.50			
	Total Hours	126.00			

Module Delivered In						
Programme Code	Programme	Semester	Delivery			
CW_CMOPT_B	Bachelor of Science (Honours) in Construction Management	7	Mandatory			