

## INFO C1G02: Design Software BIM and Information Technology 2

Module Title	:		Design Software BIM and	d Information Technology 2
Language o	f Instructi	on:	English	
Credits:		5		
		-		
NFQ Level:		6		
Module Deli	vered In		2 programme(s)	
Teaching & Strategies:	Learning		advanced level, in an arc 'crits' to provide student f	roblem-based learning to develop the learners' problem- solving methodology to an hitectural technology context, with one-to-one reviews/tutorials and group/class feedback • Group/teamwork utilised as appropriate • Lecture format utilised to ction in Revit/Cad/Word/Excel/PowerPoint software tools.
Module Aim	:		communication technolog	is: introduce students to BIM and Revit Architecture software, information and gies in order to communicate effectively in a modern technical environment, to be of working drawings in Revit Architecture.
Learning Ou	itcomes			
On successf	ul completi	on of tl	nis module the learner sho	uld be able to:
LO1				as a digital design programme to produce a variety of architectural drawings awing conventions. Learn the process of preparing good quality working drawings
LO2	PHOTOS features			with Photoshop, exploring the Interface Layout of Photoshop and exploring the
LO3			oduction to SketchUp as a ng conventions.	digital design programme to produce a variety of drawings generally following a set
LO4	INFORM an archite	ATION ectural	TECHNOLOGY • To desc and communication tool. F	ribe the main features of a computer system and the use of computer software as Printing, scanning, create PDF and dwg drawings, emails word and excel.
LO5				te, edit and print a variety of word processing, database and spreadsheet le presentations • To use web browsing effectively to extract relevant information.
Pre-requisit	e learning			
Module Rec This is prior I			ctical skill) that is recomme	nded before enrolment in this module.
6675	TEC	H H150	)7	Information Technology & CAD
Incompatibl These are m			e learning outcomes that a	re too similar to the learning outcomes of this module.
No incompat	ible module	es liste	d	
Co-requisite	Modules			
No Co-requis	site module	s listed	1	
<b>Requiremen</b> This is prior l		r a prac	ctical skill) that is mandator	y before enrolment in this module is allowed.
No requirem	ents listed			



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## **Module Content & Assessment**

## Indicative Content

#### REVIT

Learn and organise the Revit user interface, learn keyboard and mouse control functions, Create new drawing file from template ,Learn and customise the right mouse button , Learn to create floors, walls ceilings and roofs. Learn to use annotation dimensions filled regions. Control how the different views are to display by understanding the visibility graphics of a drawing, Control the use of views and sheets Control the Revit display and plotting environments, Share data working with other applications Word and Excel Extract a coordinate list from a survey. Import the dwg coordinate list into Revit, generate a model and export the information in AutoCAD maintaining a real-world scale. Scan an ordnance survey map or dwg file and scale reference it to real life size using the OS scale bar as reference. Produce good quality working drawings of residential projects fully annotated and dimensioned, using A4, A3, A2 and A1 sheet with multiple views on sheets. Create good quality working drawings of a site plan and longitudinal section of a residential project showing services, drainage, access, and landscaping fully annotated and dimensioned.

#### **REVIT (BIM)**

Produce a variety of architectural drawings generally following a set of architectural drawing conventions to produce good quality working drawings plans sections elevations, vertical and horizontal details live callout detail views annotated and dimensioned through the use of Revit Architecture

## INFORMATION TECHNOLOGY

MS Word 2013: • The Word window: Basics • Formatting Paragraphs and Working with Styles • Report writing :Adding Bullets and Numbers, using References, Setting Page Layouts and Printing Documents MS Excel 2013: • Entering Text and Numbers • Entering Excel Formulas and Formatting Data • Creating Excel Functions, Filling Cells, and Printing • Creating charts MS PowerPoint 2013: • The PowerPoint Window: Basics • Creating PowerPoint Presentations: Create a Title Slide , Create New Slides ,Make Changes to ,Apply a Theme ,Run PowerPoint Slide Show Animations, Transitions, Spell Check, Outline Tab, Slides Tabs, Sorter View, and Printing

Photoshop Essentials (a) Differentiate between vector and raster file formats (b) organise image using named layers and layer groups (c) using strokes, fills and gradients (d) using transformation tools (e) using layer masks (f) importing and cleaning images, creating shadows and textures (g) using transparencies to create atmosphere and provide realism

### **Sketchup Essentials**

Learn how to build basic geometry, apply materials, and import models from SketchUp's 3D warehouse. Learn the SketchUp interface and learn selection tools such as select, rectangle, scale, materials, Pan, line, move, view, eraser, zoom, circle, paint, orbit, push/pull and offset. Learn navigation tools like orbit pan zoom rotate etc. Learn the modelling window, Menu bar dialog boxes status bar context menus and toolbars for ease of modelling. Learn saving and importing and exporting files.

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%	1,2,3,4,5	100.00	End-of- Semester
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
Laboratories	Every Week	4.00
Estimated Learner Hours	Every Week	4.00
	Total Hours	8.00

Module Delivered In				
Programme Code Programme		Semester	Delivery	
CW_CGSDC_B	Bachelor of Science (Honours) in Set Design and Construction	2	Mandatory	
CW CGSDC D	Bachelor of Science in Set Design and Construction	2	Mandatory	