

<b>Module Title:</b>	Building Information Modelling 1
<b>Language of Instruction:</b>	English
<b>Credits:</b>	5
<b>NFQ Level:</b>	6
<b>Module Delivered In</b>	<a href="#">3 programme(s)</a>
<b>Teaching &amp; Learning Strategies:</b>	Lectures Practical's Private study Lecture format utilised to provide theoretical instruction in Revit/Cad/ software tools.
<b>Module Aim:</b>	The aims of this module is: to integrate Revit Architecture (BIM) into Studio Projects. To introduce students to BIM and Revit Architecture software, information and communication technologies in order to communicate effectively in a modern technical environment, to be able create a wide range of working drawings in Revit Architecture. To increase productivity and master professional level techniques in Building Information Modelling environment.

Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	REVIT • Introduction to Revit Architecture as a digital design programme to produce a variety of architectural drawings generally following a set of architectural drawing conventions. Learn the process of preparing good quality working drawings of a building in Revit. • Create and modify walls,,roofs,,floors foundations, dimensions, text, draw accurately, layouts, print, and share drawings with others.
LO2	REVIT • Create sheets: plans, elevations, sections, 3D sections, 2d details, 3D details, 3D views and live callout detail views from Revit models. (b) Produce fully detailed working drawings generally following a set of architectural drawing conventions
LO3	REVIT • Import a coordinate 3d dwg files into Revit and create a terrain a model, generating contours, levels, and sections. • Create good quality working drawings of a site plan and longitudinal section of a private site layout, using your domestic building. • Create, edit and print a wide variety of construction drawings generally following a set of architectural drawing conventions. Prepare good quality working drawings of commercial and residential projects to the highest professional standard.

Pre-requisite learning
<b>Module Recommendations</b> <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>
No recommendations listed
<b>Incompatible Modules</b> <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>
No incompatible modules listed
<b>Co-requisite Modules</b>
No Co-requisite modules listed
<b>Requirements</b> <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>
No requirements listed

## 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.

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 Practical

No End of Module Formal Examination

**SETU Carlow Campus reserves the right to alter the nature and timings of assessment**

**Module Workload**

<b>Workload: Full Time</b>		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
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_CMOPB_B	<a href="#">Bachelor of Science (Honours) in Construction Management</a>	2	Mandatory
CW_CMQSU_B	<a href="#">Bachelor of Science (Honours) in Quantity Surveying</a>	2	Mandatory
CW_CMBSE_D	<a href="#">Bachelor of Science in Construction Management</a>	2	Mandatory