APPROVED

ARCH7044: Arch Graphics: 3D Modelling

Module Details

Module Code:	ARCH7044
Title:	Arch Graphics: 3D Modelling APPROVED
Long Title:	Arch Graphics: 3D Modelling
NFQ Level:	Intermediate
Valid From:	Semester 1 - 2020/21 (September 2020)
Duration:	1 Semester
Credits:	5
Field of Study:	5810 - Architecture & Urban Environment
Module Delivered in:	2 programme(s)
Module Description:	This module explores 3D computer visualisation using Building Modelling Software to be used to produce a set of 2D & 3D drawings to architectural practice standards.

Learning Outcomes	
On successful completion of this module the learner will be able to:	
#	**Learning Outcome Description**
LO1	Produce annotated 2D General Arrangement Architectural drawings from a 3D virtual building model to professional practice standards using Building Modelling software.
LO2	Produce annotated 2D and 3D Details from a 3D virtual building model to professional practice standards using Building modelling software.
LO3	Produce site analysis drawings to professional practice standards using Building Modelling software.

Dependencies
Module Recommendations
Incompatible Modules
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements
No requirements listed

Indicative Content
Building Design Modelling Brief overview of Building Modelling software.Revision of the basic commands. split elements, match properties, modification of curtain walls, import site, building pad, place site components, groups, colour scheme, schedules and tag elements, section, freeform. Advanced detailing introduction, project settings, override graphics in view, link a revit project, import a DWG file, bearing structure, roof and roof joins, renovation plan, wall sweep and reveal, create in-place components, sloped insulation, multi-layered walls, wall joins, lines, create line type, callouts, masking region, filled region, repeating detail component, detail component, cut profile, tag materials, element keynote, linework, view range, plan region, title block, legend component, print, export.

Module Content & Assessment

Assessment Breakdown	**%**
Coursework	100.00%

Assessments

Coursework			
Assessment Type	Project	**% of Total Mark**	50
Timing	Week 6	**Learning Outcomes**	2,3
Assessment Description Building Modelling Software: 2D & 3D section and Details drawings.			
Assessment Type	Project	**% of Total Mark**	50
Timing	Week 12	**Learning Outcomes**	1
Assessment Description Building Modeling Software: 2D & 3D General Arrangement drawing.			

No End of Module Formal Examination

Reassessment Requirement
Coursework Only *This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.*

Module Workload

Workload: Full Time					
Workload Type	*Contact Type*	*Workload Description*	*Frequency*	*Average Weekly Learner Workload*	*Hours*
Lab	Contact	Application & assignments: 2D & 3D Building Model drawing	Every Week	3.00	3
Independent & Directed Learning (Non-contact)	Non Contact	Completion of studio work	Every Week	4.00	4
				Total Hours	7.00
				Total Weekly Learner Workload	7.00
				Total Weekly Contact Hours	3.00

Workload: Part Time					
Workload Type	*Contact Type*	*Workload Description*	*Frequency*	*Average Weekly Learner Workload*	*Hours*
Lab	Contact	Application & assignments: 2D & 3D Building Model drawing	Every Week	3.00	3
Independent & Directed Learning (Non-contact)	Non Contact	Completion of studio work	Every Week	4.00	4
				Total Hours	7.00
				Total Weekly Learner Workload	7.00
				Total Weekly Contact Hours	3.00

Module Resources

Recommended Book Resources

James Vandezande, Phil Read, Eddy Krygiel. (2019), Mastering Autodesk Revit Architecture 2019, [ISBN: 978-168392175].

Supplementary Book Resources

Graham Bizley. (2010), Architecture in Detail II, 1st Ed. Architectural Press, Oxford, UK, [ISBN: 978-008096535].

Eric Wing. (2017), Autodesk Revit 2017 for Architecture, 1st. Sybex, [ISBN: 978-111924330].

This module does not have any article/paper resources

This module does not have any other resources

Module Delivered in

Programme Code	Programme	Semester	Delivery
CR_CARCT_8	Bachelor of Science (Honours) in Architectural Technology	-1	Mandatory
CR_TARCH_7	Bachelor of Science in Architectural Technology	-1	Mandatory