

ARCH6070: Intro. Architectural Graphics

Module Details	
Module Code:	ARCH6070
Title:	Intro. Architectural Graphics APPROVED
Long Title:	Intro. Architectural Graphics
NFQ Level:	Fundamental
Valid From:	Semester 1 - 2019/20 (September 2019)
Duration:	1 Semester
Credits:	5
Field of Study:	5810 - Architecture & Urban Environment
Module Delivered in:	2 programme(s)
Module Description:	Intro Architectural Graphics is an introduction to the practical skills and contextual knowledge required in a professional Architectural Practice. The module provides an introduction to graphical representation techniques used in architectural drawings using digital and traditional hard-line and freehand drawing, including, oral and written presentation skills.

Learning Outcomes	
On successful completion of this module the learner will be able to:	
#	Learning Outcome Description
LO1	Apply basic presentation techniques, visually, orally and written.
LO2	Display the principles of graphic representation, drafting, lettering, sketching and development to 2D/3D drawings.
LO3	Apply fundamental/introductory 2D AutoCAD drawing skills.
LO4	Produce drawings using digital software.
Dependencies	
Module Recommendations	
Incompatible Modules	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements	
No requirements listed	

Indicative Content	
Graphics Introduction to principles of 2D/3D drawing techniques for architectural projects. Introduction to drawing equipment and how it is used. Introduction to dimensioning and freehand sketching. Drawing standards; application of drafting, lettering, lineweights, line styles/types, drawing conventions, rendering techniques, material representation on drawings, hatching types, setting up title blocks, sheet set out and arrangements. Development of orthographic projections and axonometric drawings.	
2D AutoCAD Understanding of the fundamental commands for 2D computer drawing using Autodesk AutoCAD software. Creation of a customised working interface & short cut commands. AutoCAD commands and menus – line, polyline, basic commands, view, draw modify. Format, layers, blocks, hatch, text & dimensioning, scaling objects, scaling from a point. Drawing tools – ortho, undo, track, snap. Editing – polyline, text for style, copy, fillet, extend trim, rotate, move mirror, offset. Zoom – window, previous, extent, all pan. Hatching – scaling, selecting from boundaries, or points. Dimensions – linear, radius, angular, leader, setting up dimension styles. Layering & use of properties – name, selecting pen widths, templates, colours & linetypes. Model, layout tabs, viewports – create, reuse layout settings and create and edit layout viewports. Export/importing – text, images from other packages into AutoCAD, exporting CAD to other window based packages. Plot drawings – page setup plot configuration, black & white and colour printing, plot to printer, plot to file/photoshop. Model space layouts Creating view ports.	
Communication & Presentation Visual, written and oral presentation skills. Architectural appreciation studies, introduction to architectural language, proportion, scale and design concepts, visual written and oral analysis.	

Module Content & Assessment	
Assessment Breakdown	%
Coursework	100.00%

Assessments

Coursework			
Assessment Type	Project	% of Total Mark	50
Timing	Every Second Week	Learning Outcomes	1,2
Assessment Description Graphics: A3 drawings with title blocks to represent drafting styles, lettering, dimensioning, sketching, orthographic views, axonometric details.			
Assessment Type	Project	% of Total Mark	50
Timing	Every Second Week	Learning Outcomes	3,4
Assessment Description 2D AutoCAD drawings			
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
Tutorial	Contact	2D and 3D Drawing Skills for Architectural projects	Every Week	2.00	2
Tutorial	Contact	Computer Aided Drawing	Every Week	2.00	2
Independent & Directed Learning (Non-contact)	Non Contact	Completion of Lab and Studio Coursework	Every Week	3.00	3
Total Hours					7.00
Total Weekly Learner Workload					7.00
Total Weekly Contact Hours					4.00

Workload: Part Time					
Workload Type	Contact Type	Workload Description	Frequency	Average Weekly Learner Workload	Hours
Tutorial	Contact	2D and 3D Drawing Skills for Architectural projects	Every Week	2.00	2
Tutorial	Contact	Computer Aided Drawing	Every Week	2.00	2
Independent & Directed Learning (Non-contact)	Non Contact	Completion of Lab and Studio Coursework	Every Week	3.00	3
Total Hours					7.00
Total Weekly Learner Workload					7.00
Total Weekly Contact Hours					4.00

Module Resources	
<i>Recommended Book Resources</i>	
<p>Francis D. K. Ching. (2015), Architectural Graphics, Sixth. Wiley, New Jersey, [ISBN: 111903566X].</p> <p>Fraser Reekie. (1995), Reekie's Architectural Drawing, Routledge, London and New York, [ISBN: 9780415502962].</p> <p>Francis D. K. Ching with Steven P. Juroszek. (2010), Design Drawing, John Wiley & Sons Inc, New Jersey, [ISBN: 9780470533697].</p> <p>Miriam Delaney & Anne Gorman. (2011), Studio Craft & Technique, UCD, [ISBN: 1905254547].</p> <p>Scott Onstott. (2017), AutoCAD 2018 and AutoCAD LT 2018 Essentials, Sybex, Indianapolis, Indiana, [ISBN: 9781119386780].</p>	
<i>Supplementary Book Resources</i>	
<p>Rosie Parnell and Rachel Sara with Charles Doidge and Mark Parsons. (2007), The Crit, Second. Routledge, London and New York, [ISBN: 9780750682251].</p> <p>Bill Fane. (2016), AutoCAD 2018 for Dummies, John Wiley & Sons Inc, New Jersey, [ISBN: 978119255796].</p> <p>Mo Zell. (2008), The Architectural Drawing Course, Thames & Hudson, London, [ISBN: 9780500287286].</p>	
<i>This module does not have any article/paper resources</i>	
<i>This module does not have any other resources</i>	

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