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CADD06021 2022
Building Information Modelling With Revit Architecture

Full Title	Building Information Modelling With Revit Architecture		
Transcript Title	Bim With Revit Architecture		
Status	IB - Uploaded to Banner	**Module Code**	CADD06021
NFQ Level	06	**ECTS Credits**	10
Subject Area	CADD - Computer Aided Design	**Attendance**	N/A %
Grading Mode	Numeric/Percentage	**Module Duration**	Semester - (15 Weeks)
Start Term	2022 - Academic year 2022-2023	**End Term**	9999 - The End of Time
Module Leader	Paul Vesey	**Department**	D510 - Built Environment

Module Description

The programme will provide learners with a solid grounding in Building Information Modelling (BIM) using Autodesk's Revit Architecture. This programme will encompass the basics of 3D building modelling & architectural visualisation. BIM functionality such as tables and building quantities will also be covered. This course will benefit existing AutoCAD users as well as those learning CAD for the first time.

	Learning Outcomes ***On completion of this module the learner will/should be able to;***
1.	Produce multi-view, isometric, and oblique drawings.
2.	Produce plan views; elevations, and sections of small to medium sized buildings.
3.	Edit existing CAD drawings.
4.	Produce Revit generated material schedules and take-off lists
5.	Use Revit to create presentation graphics and renderings

Indicative Syllabus

Overview of Revit Architecture and Building Information Modelling (BIM)

Key Concepts; Project File; Introduction to BIM; BIM Workflow.

User Interface, Views and Revit Project Setup

Level setup; Site topography; Standard Building Elements; Column Grids and Structural Layouts.

Elements and Element Properties

Walls; Roofs; Floors; Vertical Circulation; Ceilings.

Families: Editing, and Creating

Types of Families; Accessing Standard Families and Customisation.

Detailing & Annotation

Sections Views; Detail Views; Annotation and Editing.

Schedules, Quantities and Tags

Window Schedules; Door Schedules; Material Take-offs; Room Tags; Querying Building Data.

Shading, Rendering and Animation

3D Views & Cameras; Materials; Lighting; Walkthroughs; Solar Studies.

Teaching and Learning Strategies

The module is delivered using the latest version of Autodesk Revit Learners will be guided through the functionality of Revit through examples and demonstrations.

Module Assessment Strategies

Learners must achieve at least 40% in the module. There is no terminal examination. The module is 100% assessed by continuous assessment of laboratory/workshop based assignments and interim assessments.

Repeat Assessment Strategies

The repeat opportunity is by means of:

- re-taking failed practical assessments
- repeat and attend the module.

Programme Membership

LC_JBIAP_RMY 202200 Certificate in Building Information Modelling with Revit Architecture (Classroom)
LC_JBIAP_ROL 202200 Certificate in Building Information Modelling with Revit Architecture (Online)

Coursework / Continuous Assessment Breakdown

Coursework & Continuous Assessment	100 %	End of Semester / Year Formal Exam	0 %

Coursework Assessment

Title	Type	Form	Failed Element	Percent	Week	Outcomes Assessed
Domestic House Design	Continuous Assessment	Individual Project	No	34 %	Week 4	1,2,3,4
Retail Unit Design	Continuous Assessment	Individual Project	No	33 %	Week 8	1,2,3,4,5
Mass, Analysis and Renders	Continuous Assessment	Individual Project	No	33 %	Week 10	1,2,3,4,5

Full Time Mode Workload

Type	Location	Description	Hours	Frequency	Avg Workload
Laboratory Practical	Computer Laboratory	Lab Practical	3	Weekly	3.00
Independent Learning	Not Specified	Independent Learning	155	Per Module - Semester	10.33

Total Full Time Average Weekly Learner Contact Time 3.00 Hours

Module Resources

Journal Resources

Computer Aided Geometric Design	ISSN 0167-8396
Computer Aided Design	ISSN 0010-4485
The Journal of Architecture	ISSN 1360-2365
Building and Environment	ISSN 0360-1323

URL Resources

http://www.autodesk.com/education/home

http://www.nationalbimlibrary.com/

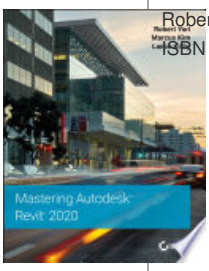
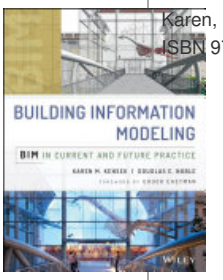
http://www.revitcity.com/

https://www.bimstore.co.uk/

http://www.polantis.com/

Other Resources
Software: Latest Edition of Autodesk Revit

Required Book List

Cover	Book Details
	Robert, M., (2019). *Mastering Autodesk Revit 2020*. . John Wiley & Sons. ISBN 9781119570127 ISBN-13 1119570123
	Karen, D., (2014). *Building Information Modeling*. . John Wiley & Sons. ISBN 9781118766309 ISBN-13 111876630X
	Aubin, F., (2020). *Revit Essentials for Architecture*. . G3b Press. ISBN 0578731061 ISBN-13 9780578731063
	Rafael, C., (2018). *BIM Handbook*. . John Wiley & Sons. ISBN 9781119287537 ISBN-13 1119287537

Administratve Information	
Date Created	16-06-2021
Module Owner	Paul Vesey
Date School Approved	18-05-2022
Module Approver	Ciara Naughton
Date Academic Council Approved	18-05-2022