

AAR655: INTRODUCTION TO BUILDING INFORMATION MODELING

Course Name (English)	INTRODUCTION TO BUILDING INFORMATION MODELING APPROVED				
Course Code	AAR655				
MQF Credit	MQF Credit 2				
Course Description	A brief history of Building Information Modelling (BIM) implementation in the architectural profession. Understanding the user interface of common BIM software packages with focus on the existing BIM package provided by the University. Usage of BIM for the production of drawings. Leveraging BIM software families for parametric design, and usage of parameters and data flow families for all aspects of 2D documentation.				
Transferable Skills	Reflective Learner Tech-savvy				
Teaching Methodologies	Lectures, Lab Work				
CLO	CLO1 Manipulate the ability to use related tools and softwares in document management. CLO2 Demonstrate effective presentations documents and diagrams.				
Pre-Requisite Courses	No course recommendations				
Topics					
Concepts of BIM and Integrated design. Introduction to User interface					
2. Introduction to User interface 2.1) N/A					
3. Basics of the BIM software (provided by the University), fundamentals of Massing and Modeling 3.1) N/A					
4. Site and topography 4.1) N/A					
5. Creating building via components 5.1) N/A					
6. Level and grid settings setting 6.1) N/A					
7. Ctreating a basic floor plan, creating and modifying walls 7.1) N/A					
8. Working with compound and vertical walls; Doors and windows 8.1) N/A					
9. Creating views (e 9.1) N/A	elevations, section, 3D view and perspective); Creating interiors				
10. View properties 10.1) N/A	and settings				
11. Creating Families, Families and object modelling components 11.1) N/A					
12. Schedules, Legends, detailing; Presentation views & Design options 12.1) N/A					
13. Detailing and drafting 13.1) N/A					

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Start Year : 2019

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14. Rendering; Walkthrough, Solar studies & Project setting and locations

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Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment					
	Assessment Type	Assessment Description	% of Total Mark	CLO	
	Assignment	Assessment on the ability to demonstrate effective presentations documents and diagrams.	30%	CLO2	
	Assignment	Assessment on the ability to use related tools and softwares in document management. Specifically on BIM.	70%	CLO1	

Reading List	Reference Book Resources	Eastman, C. Teicholz P. Sacks R. and Liston, 2008, BIM Handbook, A Guide to Building Information, Wiley Hardin, Brad 2009, BIM and Construction Management: proven tools Krygiel E. and Nies B. Green, BIM; Successful Sustainable Design with Build Kelvin, G 2007, Integtrated Practices in Architecture: Master	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

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