

## AAR651: CONSTRUCTION TECHNOLOGY V

Course Name (English)	CONSTRUCTION TECHNOLOGY V APPROVED			
Course Code	AAR651			
MQF Credit	3			
Course Description	A study on the specialised construction techniques of Industrialised Building System (IBS). The aspects encompass the various systems currently practiced and the underlying principles, modular coordination and assembly drawings, as well as factory production and site assembly. A study will be done on buildings that relate to the design task current design studio and marked independently under this course.			
Transferable Skills	Tech-savvy Systematically inquisitive			
Teaching Methodologies	Lectures, Field Trip, Case Study, Tutorial			
CLO	CLO1 Adhere the application of the concept of dimensional and modular coordination in IBS constructional design.  CLO2 Describe the requirements and application of IBS and its related material commonly used in building construction.  CLO3 Differentiate complexity of IBS construction through various architectural representation.			
Pre-Requisite Courses	No course recommendations			
Topics				
1. Industralised Building System - Introduction 1.1) N/A				
2. Industralised Building System - Various Categories 2.1) N/A				
3. Industralised Building System - Precast Construction 3.1) N/A				
4. Industralised Building System - Application of the Concept of Dimensional and Modular Coordination in Design 4.1) N/A				
5. Industralised Building System - Prefabrication Cladding System 5.1) N/A				
6. Industralised Building System - Other Related Materials 6.1) N/A				
7. Industralised Building System - Prefabricated & Heavily Service Spaces in Building 7.1) N/A				

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Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of Continuous Assessment				
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Assessment on integrating the application of the concept of dimensional and modular coordination in IBS constructional design within the design project.	20%	CLO1
	Assignment	Assessment on the ability to differentiate in group task the complexity of IBS construction through various architectural representation.	20%	CLO3

В	Reference Book Resources	N.Rajagopalan 2006, <i>Bridge superstructure</i> , Alpha Science International	
		Takahashi,S. 2000, <i>Precast Concrete Technology For Engineers</i> , Politeknik Shah Alam, Selangor.	
		Addleson,L. 1992, <i>Building Failures, A Guide To Diagnosis, Rem</i> e, Butterworth-Heinemann	
		Groak,S. 1992, Idea of Buildings, London, E. & F.N. Spoon	
		Maxley, R. 1992, <i>Building Management By Proffesional</i> , Butterworth-Heinemann	
Article/Paper List	This Course does not have any article/paper resources		
Other References	Website CIDB Malaysia 2014, An introduction to IBS and CIDB Roadmap Malaysia http://www.ibscentre.com.my		

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