

UNIVERSITI TEKNOLOGI MARA

AAR554: BUILDING SERVICES I					
Course Name (English)	BUILDING SERVICES I APPROVED				
Course Code	AAR554				
MQF Credit	2				
Course Description	This course covers the study of cold water and hot water supply system, sanitary and waste disposal system, refuse disposal system, electrical supply and telecommunication system. Emphasis will be on the principles and choices of system for different types and scale of buildings. General application of these services with regards to requirements will be discussed.				
Transferable Skills	Reflective learner Resourceful and Responsible Responsive				
Teaching Methodologies	Lectures, Presentation				
CLO	 CLO1 Demonstrate the principles and application of building services in building design. CLO2 Explain the application methods and usage of building services related to different type and scale of buildings. 				
Pre-Requisite Courses	No course recommendations				
Topics					
1. Water Supply 1.1) Sources of wate	r and water treatment				
2. Cold and Hot Wat 2.1) Cold water and h	ter Distribution not water supply ribution for domestic and high- rise buildings				
3.2) ? Bathroom/ toile 3.3) ? Sanitary applia	rainage System of drainage and surface drain et layout for domestic buildings ances and types of drainage system ary accommodation and service ducts				
4. Below Ground Dr 4.1) ? Sub- soil drain 4.2) ? Materials and 1 4.3) ? Drainage pipe	rainage System age and soak away types of jointing used for soil and waste system materials, jointing and drain laying				
installation for high ri	I and treatment above ground drainage/soil and solid waste disposal system and its				
	and distibution oly to small and large building wiring system in a building				
	nent and Space Requirement Local by-laws and regulations				
8.2) Equipments and	llation for housing and large building				

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Start Year : 2020 Review Year : 2018

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 the application methods and usage of building services related to different type and scale of buildings.	40%	CLO2	
		-			
Reading List	Recommended Text	Hall,F 1994, <i>Building Services and Equipment</i> , Vol 1,2&3 Ed., Essex Longman			
	Reference Book Resources	Wines, J 2008, <i>Green Architectur</i> e, Ed., , London,Taschen. [ISBN:]			
		Brown, G.Z. 2001, <i>Sun, Wind and Light: Architectural Design Str</i> , Ed., , USA: John Wiley & Sons, Inc [ISBN:]			
		Bownass, D 2001, <i>Building Services Design Methodology</i> , Ed., , London, Spoon Spres [ISBN:]			
		Rigby, B. 2005, <i>Design of Electrical services of buildings.</i> , Ed., , Taylor & Francis [ISBN:]			
		Woolley, E.L. 1990, <i>Drainage Details</i> , London Northwood Publications.			
	Woolley E.L 1990, Sanitation Details, E & F.N. Spon Lo				
		Blackenbaker 1981, <i>Modern Plumbing</i> , Goodh United Kingdom	eart, Wilc	ох	
		Burberry, P. 1975, <i>Environmental and Service</i> London	s, B.T. Ba	tsford	
		Porges, F. 1989, <i>The Design of Electrical Services of Building</i> , E & FN Spon London		ulding,	
		Steward, W.E. 1992, <i>Modern Wiring Practice</i> , I London	Butterwor	th.	
Article/Paper List	This Course does not have any article/paper resources				
Other References	• n/a Malaysia Uniform Building By Laws				
	• n/a TNB guidelines & Standards				
	• n/a SYABAS gu				
	• n/a <i>Indah Wat</i> e	r Guidelines & Standards			