

UNIVERSITI TEKNOLOGI MARA BSS401: ENVIRONMENTAL SCIENCE AND SERVICES I

Course Name	ENVIRONMENTAL SCIENCE AND SERVICES I APPROVED				
(English) Course Code	BSS401				
110 0 III					
MQF Credit	MQF Credit 3				
Course Description	The subject focused on (i) Environmental Sciences: Climatic influence on living comfort and the built environment. (ii) Services: Essential utilities; water supply and sanitation systems.				
Transferable Skills	Transferable Skills Environmental Science in building & Services in building				
Teaching Methodologies	Lectures, Blended Learning				
CLO	CLO1 understand the environmental influences, engineering services and building function in traditional and modern buildings. CLO2 acquire the knowledge, skill and techniques used in the design, installation and operation of environmental engineering services to create a comfortable living condition. CLO3 apply and integrate the relationship between engineering services and environmental science and their influences in the design and construction of building.				
Pre-Requisite Courses	No course recommendations				
Topics					
1. Introduction to En	nvironment				
2. Bioclimatic Archi 2.1) n/a	2. Bioclimatic Architecture				
3. Nature of Heat 3.1) n/a					
4. Thermal Conductivity 4.1) n/a					
5. Thermal Comfort 5.1) n/a					
6. Ventilation, Humidity & Condensation 6.1) n/a					
7. Introduction to services 7.1) n/a					
8. Water Services 8.1) n/a					
9. Water Distribution 9.1) n/a					
10. Cold Water Supply to the Building 10.1) n/a					
11. Hot Water Supply 11.1) n/a					
12. Drainage System 12.1) n/a					

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Start Year : 2015

Review Year : 2015

Assessment Breakdown	%
Continuous Assessment	30.00%
Final Assessment	70.00%

Details of				
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	n/a	20%	CLO2
	Test	n/a	10%	CLO3

Reading List	Recommended Text	Blower G.J 2002, <i>Plumbing Mechanical Services</i> , Prentice Hall United Kingdom. Hall F 1998, <i>Building Services & Equipment</i> , Longman UK Binggeli C 2003, <i>Building Systems for Interior Designer</i> , John Wiley & Sons. Inc. USA	
		Robert K. Kaufmann, Cutler J. Cleveland 2008, <i>Environmental Science</i> , McGraw-Hill Higher Education Boston	
	Reference Book Resources	Greeno, R 1997, <i>Building Services, Technology & Design,</i> Longman & CIOB, London., London	
		Hall, FE 1995, <i>Essential Building Services & Equipment</i> , BH Newnes London	
		Olgay, V 1992, <i>Design With Climate</i> , Van Nostrand Reinhold New York	
		Burberry, P 200, <i>Environment & Services</i> , 8th Edition Ed., Longman London	
		Mc Mullan, R, 2002, <i>Environmental Science in</i> , 5th Edition Ed., Mac Millan London	
		Kut 1992, <i>Illustrated Encyclopaedia of Building Services</i> , Mac Millan London	
		V.K. Ahluwalia, Sunita Malhotra 2008, <i>Environmental Scienc</i> e, Bota Raton:CRC Press.	
		Fred Hall, Roger Greenor 2007, <i>Building Services Handbook</i> , 4th Edition Ed., Butterworth-Heinemann	
		David V. Chadderton 2007, <i>Building Services Engineering</i> , 5th Edition Ed., Taylor & Francis.	
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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