

UNIVERSITI TEKNOLOGI MARA

BSS410: STRUCTURES I

Course Name (English)	STRUCTURES I APPROVED				
Course Code	se Code BSS410				
MQF Credit	2				
Course Description	This subject provides an understanding on basic structural design related to reinforced concrete component.				
Transferable Skills	Basic structural mechanic				
Teaching Methodologies	Lectures, Tutorial				
CLO	CLO1 Upon completion, students should be able to understand the structural behaviour and application of Reinforced Concrete in Construction. CLO2 Upon completion, students should be able to design a simple structure usir Reinforced Concrete Components. CLO3 Upon completion, students should be able to understand the structure failu of reinforced concrete.				
Pre-Requisite Courses	No course recommendations				
Topics					
1. Introduction To Structural 1.1) n/a					
2. Loads On Building And Structures 2.1) n/a					
3. Moment Of Forces 3.1) n/a					
4. Stress, Strain, Elasticity 4.1) n/a					
5. Concurrent Coplanar Forces & Non – Concurrent Coplanar Forces 5.1) n/a					
6. Shear Forces And Bending Moment 6.1) n/a					
7. Properties Of Section -Centre of Gravity 7.1) n/a					
8. Properties Of Section -Moment of Inertia 8.1) n/a					
9. Simple Beam Design 9.1) n/a					
10. Test 10.1) n/a					
11. examination 11.1) n/a					

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Start Year : 2015

Review Year : 2015

Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of Continuous Assessment				
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	n/a	30%	CLO1 , CLO2 , CLO3
	Test	n/a	10%	CLO1 , CLO2 , CLO3

Reading List	Reference Book Resources	W.H. Mosley and J.H Bungey 1989, <i>Reinforced Concrete Design</i> , Mac Millan Press	
		T.J. Mac Ginley 1990, Reinforced Concrete Design, Theory and Examples, Chapman and Hall	
		BS 8110, Part 1 1985, <i>The Structural Use of Concrete, Code of Practice for Design and Construction</i> , Blackwell Science United Kingdom.	
		Morrow H.W & Kokernak R.P 2001, Statistic & Strength of Materials, Prentice Hall New York	
		P.P. Bentiam and R.J. 1994, <i>Mechanics of Engineering Materials, SI Version</i> , Longman	
		James M.Gere and Stephen P. Timonshanko 1991, <i>Mechanics</i> of <i>Materials</i> , Third Edition Ed., Chapman and Hall.	
		F.P Bear and E.R. Johnston Jr 1992, <i>Mechanics of Materials,</i> SI Version, McGraw Hill.	
		E.J. Hearn 1998, <i>Mechanics of Materials, Vol. 1</i> & 2, 2nd Edition Ed., Pergamon Press	
		P. Bhatt, H.M. Nelson 1990, <i>, Structures</i> , 3rd Edition Ed., ELBS, Longman Group UK. Ltd. UK	
		Al Naqeim H, Durka F, Morgan W & Williams D 2002, Structural Mechanics : Loads, Analysis, Design & Method, Prentice Hall England.	
		H. Al Nageim 2003, Structural Mechanics : Loads, Analysis, Design and Materials, Prentice Hall.	
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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