

Faculty of Engineering & Technology

Reinforced Concrete 3

Information:

Course Code: SCM 416 Level: Undergraduate Course Hours: 3.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information: Title Name Office hours Associate Professor Dina Muhammad Fathy Ors 18 Associate Professor Dina Muhammad Fathy Ors 18 Assistant Lecturer Nada Mohamed Abd El Hamid Ali Mohamed

Area Of Study:

ADesign and detailing of solid slabs & Staircases

ADesign and detailing of ribbed slabs

ADesign and detailing of paneled beams

ADesign and detailing of flat slab

Description:

Design of sections under eccentric forces, Design and reinforcement details of concrete columns, Structural systems for large span concrete structures, Design and reinforcement details of frames, Bearings, Concrete footings, Working loads design method.

Course ou	tcomes:			
a.Knowledge and Understanding: :				
1 -	Address the advantage and limits of different type of slabs			
b.Intellect	ual Skills: :			
1 -	Design of solid slabs			
2 -	Design of ribbed slabs			
3 -	Design of paneled beams			
4 -	Design of flat slab			
5 -	Design of Staircases			
c.Professi	onal and Practical Skills: :			
1 -	Draw native reinforcement details of different types of slabs			
d.General	and Transferable Skills: :			
1 -	Work in stressful environment and within constraints			



Course Topic And Contents :							
Topic	No. of hours	Lecture	Tutorial / Practical				
Design and detailing of solid slabs	20	12	8				
Design and detailing of ribbed slabs	20	12	8				
Design and detailing of paneled beams	10	6	4				
Design and detailing of flat slabs	20	12	8				
Design and detailing of staircases	5	3	2				

Teaching And Learning Methodologies:

Class Lectures

Tutorials

Course Assessment:							
Methods of assessment	Relative weight %	Week No	Assess What				
Final Exam	40.00						
First Mid Term Exam	25.00						
Performance	10.00						
Second Mid Term Exam	25.00						

Course Notes :		
Lecture Notes on Moodle		
Recommended books :		
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Periodicals:		
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Web Sites :		
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