Faculty of Engineering & Technology

Reinforced Concrete 2

Information :

Course Code : SCM 412	**Level** : Undergraduate	**Course Hours :** 3.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours
Professor	AHMED FAROUK MOHAMED HASSAN DEIFALLAH	4
Assistant Lecturer	Nada Mohamed Abd El Hamid Ali Mohamed	5

Area Of Study :

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
Design of columns subjected to bending moment, shear and normal forces
Detailing of steel reinforcement for frames.

Description :

Design and reinforcement details: solid slabs, ribbed slabs, paneled beams slab, flat slabs (beam less slabs), Stairs, Design of sections under axial loading.

Course outcomes :

a.Knowledge and Understanding: :

1 -	Address the failure modes for section under eccentric load
2 -	List the different Structural systems for large span concrete structures

b.Intellectual Skills: :

1 -	Design of sections under eccentric forces
2 -	Design of concrete columns
3 -	Design of concrete frames

c.Professional and Practical Skills: :

1 -	Draw native reinforcement details of columns
2 -	Draw native reinforcement details of frames

d.General and Transferable Skills: :

1 -	Work in stressful environment and within constraints

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Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Design of sections under eccentric forces	2	6	4
Design and detailing of short columns	2	6	4
Design and detailing of long columns	3	10	6
Structural systems for large span concrete structures	2	6	4
Design and detailing of two hinged frame	2	6	4
Design and detailing of two fixed frame	2	6	4
Design and detailing of radial frame	2	6	4

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		