

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
Lecturer	Dina Muhammad Fathy Ors	18

Area Of Study :

- Design and detailing of solid slabs & Staircases
- Design and detailing of ribbed slabs
- Design and detailing of paneled beams
- Design 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 outcomes :

a.Knowledge and Understanding: :

- 1 - Address the advantage and limits of different type of slabs

b.Intellectual 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.Professional 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

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
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 :

-

Periodicals :

-

Web Sites :

-