

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 :

- "Illustrate the analysis of members subjected to centric and eccentric axial loads.
- "Illustrate different buckling modes for columns
- "Determine loads on frames and halls.
- "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 - Define basic concepts of structural modeling
- 2 - Understand the behavior of structures

b.Intellectual Skills: :

- 1 - Ability to analyze the engineering problems
- 2 - Ability to derive different solution for engineering problems
- 3 - Ability to assess the obtained results accuracy

c.Professional and Practical Skills: :

- 1 - Ability to handle different types of structures
- 2 - Ability to handle different structural systems
- 3 - Ability to translate structural design to structural detailing for execution

d.General and Transferable Skills: :

- 1 - Ability to practice team work and present results
- 2 - Manage time and meet deadlines

