

## 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 Deifalla	4
Assistant Lecturer	Dina Yehia Zakaria Ewais	19
Assistant Lecturer	DINA HESHAM MOHAMED HELMY	7

#### 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

