

Faculty of Engineering & Technology

Metallic Structures 3

Information :

Course Code : SCM 512	Level	:	Undergraduate	Course Hours :	3.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours	
Professor	sherif Mohamed Ibrahem Mohamed	4	
Professor	sherif Mohamed Ibrahem Mohamed	4	
Assistant Lecturer	Ahmed Amr Kadry Ahmed Shaheen	4	
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Area Of Study :

Upon successful completion of this course, the student should be able to: - Understand the basic concepts and main principles - Calculate the values of the essential terms - Design and draw neat details - Apply Codes provisions Regarding composite beams composite columns high rise system floor beam systems cold formed section stairs

Description:

High rise steel buildings: structural systems, design loads (dead, live, wind and seismic), Static analysis, Floors, Connections: flexible, rigid, semi-rigid, cold formed steel members.

Course outcomes :

a.Knowled	a.Knowledge and Understanding: :			
1 -	Define the main terms of composite beams			
2 -	Define the main terms of high rise system			
b.Intellect	ual Skills: :			
1 -	Design the elements of composite beams			
2 -	Design the elements of composite columns			
3 -	Analyze the system of high rise system			
4 -	Analyze the system of floor beam systems			
5 -	Design the elements of cold formed section			
6 -	Analyze the system of stairs			
c.Professi	onal and Practical Skills: :			
1 -	Apply Code provisions regarding composite columns			
2 -	Prepare technical reports for high rise system			
3 -	Draw neat details of floor beam systems			



4 - Apply Code provisions regarding cold formed section

d.General and Transferable Skills: :

1 - Work under stress

Course Topic And Contents :			
Торіс	No. of hours	Lecture	Tutorial / Practical
composite beams	2	9	3
composite columns	4	9	3
high rise system	2	6	2
floor beam systems	4	6	2
cold formed section	2	9	3
stairs	2	3	1
Revision	2	3	1

Teaching And Learning Methodologies :	
Interactive Lec.	
Discussion	
Problem Solving	
Project	
Report / Present	

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
Final exam	40.00		
Mid- Exam I, II	30.00		
Project	10.00		
Quizzes / Assig	10.00		
Report / Present	10.00		

Course Notes :		
Students Lecture Notes		

Recommended books :

Egyptian Code of Practice for steel construction and bridges.