

Faculty of Engineering & Technology

Reinforced Concrete 4

Information :

Course Code : SCM 511 **Level :** Undergraduate **Course Hours :** 2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours
Professor	Ahmed Farouk Mohamed Hassan Deifalla	4
Lecturer	Tarek Salah El Din Moustafa Ragheb	5
Lecturer	Dina Mahmoud Mohamed Elsayed Mansour	2
Assistant Lecturer	Nada Mohamed Abd El Hamid Ali Mohamed	18
Teaching Assistant	Sarah Salah Sayed Hussein Aly Elsheshtawy	6
Teaching Assistant	Mohamed Fathy Salem Mohamed	
Teaching Assistant	Sarah Salah Sayed Hussein Aly Elsheshtawy	6

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 crack limited section types of tanks elevated tanks rested tanks underground tanks

Description :

Design and reinforcement details: arches, vierendeal girders, trusses, deep beams and short cantilever, Wind and earthquake loads resistant structures, Design of reinforced concrete walls, Fundamentals of pre-stressed concrete.

Course outcomes :

a. Knowledge and Understanding: :

- 1 - Explain the principals of crack limited section
- 2 - List the main items of types of tanks

b. Intellectual Skills: :

- 1 - Calculate the values of crack limited section
- 2 - Assess issues of types of tanks
- 3 - Design the elements of elevated tanks
- 4 - Design the elements of rested tanks
- 5 - Design the elements of underground tanks

c. Professional and Practical Skills: :

- 1 - Prepare technical reports for types of tanks
- 2 - Apply Code provisions regarding elevated tanks

3 -	Apply Code provisions regarding rested tanks
4 -	Apply Code provisions regarding underground tanks
d.General and Transferable Skills: :	
1 -	Work under stress

Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
crack limited section	4	2	2
types of tanks	4	2	2
elevated tanks	16	8	8
rested tanks	16	8	8
underground tanks	16	8	8
Revision	4	2	2

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 :
-Lecture Notes on Moodle

Recommended books :
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Periodicals :
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Web Sites :

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