

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 DEIFALLAH	4
Professor	AHMED FAROUK MOHAMED HASSAN DEIFALLAH	4
Assistant Lecturer	SARAH SALAH SAYED HUSSIEN ALI ELSHISHTAWY	6
Assistant Lecturer	Nada Mohamed Abd El Hamid Ali Mohamed	18

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 ou	tcomes:	
a.Knowledge and Understanding: :		
1 -	Explain the principals of crack limited section	
2 -	List the main items of types of tanks	
b.Intellect	ual 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.Professi	onal 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 :

Periodicals :

Web Sites :	
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