

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
Lecturer	Dina Mahmoud Mohamed Elsayed Mansour	5
Assistant Lecturer	DINA HESHAM MOHAMED HELMY	4
Assistant Lecturer	MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF	

Area Of Study :

- Design a crack limited section
- Design and detailing of elevated tanks
- Design and detailing of rested tanks
- Design and detailing of underground tanks

Description :

Design and reinforcement details: arches, vierendeel 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 - Address the advantage and limits of different types of tanks

b.Intellectual Skills: :

- 1 - Design a crack limited section
- 2 - Design and detailing of elevated tanks
- 3 - Design and detailing of rested tanks
- 4 - Design and detailing of underground tanks

c.Professional and Practical Skills: :

- 1 - Draw native reinforcement details of different types of tanks

d.General and Transferable Skills: :

- 1 - Work in stressful environment and within constraints

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Design a crack limited section	6	3	3
Design and detailing of elevated tanks	8	4	4
Design and detailing of rested tanks	8	4	4
Design and detailing of underground tanks	8	4	4

Teaching And Learning Methodologies :

Class Lectures

Tutorials

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final Examination	40.00		
First Mid Term Exam	25.00		
Performance	10.00		
Second Mid Term Exam	25.00		

Course Notes :

-Lecture Notes on Moodle

Recommended books :

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Periodicals :

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Web Sites :

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