

## 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 HUSSEIN ALI ELSHISHTAWY	6
Assistant Lecturer	Nada Mohamed Abd El Hamid Ali Mohamed	18

#### 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 :**

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Tutorial / Practical</b>
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 :**

<b>Methods of assessment</b>	<b>Relative weight %</b>	<b>Week No</b>	<b>Assess What</b>
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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