

### **Faculty of Engineering & Technology**

## **Construction Technology**

#### Information:

Course Code: SCM 553 Level: Undergraduate Course Hours: 2.00- Hours

**Department :** Department of Structural Engineering & Construction Management

Instructor Information :				
Title	Name	Office hours		
Lecturer	RANA NABIL FATTOUH KHALLAF	14		
Lecturer	RANA NABIL FATTOUH KHALLAF	14		
Lecturer	RANA NABIL FATTOUH KHALLAF	14		
Assistant Lecturer	MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF			
Teaching Assistant	Mohamed Yahia Mohamed Abdelkader	6		
Teaching Assistant	Shrouk Awaad Mohamed Awaad			
Teaching Assistant	Shrouk Awaad Mohamed Awaad			

### **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

Regarding construction methods earth work & foundation technology temporary structural precast & pre-stressed concrete steel structure scaffolding safety equipment

## **Description:**

Introduction to construction methods, Earth work, Foundation technology, Temporary structural, Precast concrete, Prestressed concrete, Steel structure fabrication and erection, Scaffolding: materials, connections, principles of design

and erection, economy, Safety equipment

#### **Course outcomes:**

#### a. Knowledge and Understanding: :

1 -	List the main items of construction methods
2 -	Define the main terms of earth work & foundation technology

- 3 Define the main terms of temporary structural
- 4 List the main items of scaffolding

# b.Intellectual Skills: :

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2 - Design the elements of temporary structural



3 -	Solve problems regarding precast & pre-stressed concrete		
4 -	Solve problems regarding steel structure		
5 -	Design the elements of scaffolding		
c.Professio	onal and Practical Skills: :		
1 -	Demonstrate presentation regarding construction methods		
2 -	Apply Code provisions regarding temporary structural		
3 -	Draw neat details of precast & pre-stressed concrete		
4 -	Draw neat details of steel structure		
5 -	Prepare technical reports for safety equipment		
d.General and Transferable Skills: :			
1 -	Work in a team		

Course Topic And Contents:			
Topic	No. of hour	s Lecture	Tutorial / Practical
Construction methods	8	4	4
Earth work & foundation technology	8	4	4
Temporary structural	8	4	4
Precast & pre-stressed concrete	8	4	4
Steel structure	8	4	4
Scaffolding	8	4	4
Safety equipment	8	4	4
Revision	4	2	4

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

Course Assessment :				
Methods of assessment	Relative weight %	Week No	Assess What	
Final Exam	40.00			
Mid-term Exam 1	15.00			
Mid-term Exam 2	15.00			
Quizzes / Assig.	15.00			
Report / Present.	15.00			

Course Notes :		



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"Construction Methods and Management (8th Edition) Stephens W. Nunnally (Author) Pearson Prentice Hall.)