

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: :

1 -	Calculate the values of earth work & foundation technology
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. Professional 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 hours	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 :

Student Lecture Notes

Recommended books :

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