

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	Youssef Ahmed Elsayed Kamaleldin Ahmed Awad	1
Lecturer	Youssef Ahmed Elsayed Kamaleldin Ahmed Awad	1
Assistant Lecturer	MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF	
Assistant Lecturer	Nada Mohamed Abd El Hamid Ali Mohamed	

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
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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.)