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 :

At the end of this course, students will be able to:
1. Understand the basic requirements of construction methods and techniques.
2. Understand the meaning of construction methods and requirements.
3. Understand the different types of construction methods and techniques.

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: types,

Course outcomes :

a.Knowledge and Understanding: :	
1 -	a1 Students understand the principles of construction methods and techniques.
2 -	a2 Students can recognize construction requirements: methods, techniques and
b.Intellectual Skills: :	
1 -	b1- Analyze the methods of construction and their performance
2 -	b2- Knowing the different types of construction methods and can evaluate
3 -	b3- Develop proper approach for method selection
4 -	b4- Develop evaluation method
c.Professional and Practical Skills: :	
1 -	c1- Establish methods for construction project cases
2 -	c2- Understand the targets of construction method selection
3 -	c3- Apply knowledge of mathematics, science and engineering.

d.General and Transferable Skills: :	
1 -	d1- Lead and motivate individuals
2 -	d2- Manage time and meet deadlines

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to construction Methods	3	2	1
Earth work,	6	4	2
Foundation technology,	3	2	1
Analytical Methods	6	4	2
Temporary structural,	3	2	1
Precast concrete,	3	2	1
Pre-stressed concrete,	3	2	1
Steel structure fabrication and erection,	3	2	1
Scaffolding: materials, connections, principles of design and erection, economy,	9	6	3
Safety equipment: types, Prerequisites	3	2	1

Teaching And Learning Methodologies :

Lecture
Research
Class Work

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00		
Mid-term Exam 1	20.00		
Mid-term Exam 2	20.00		
Performance	10.00		
Quizzes	10.00		

Course Notes :

Student Lecture Notes

Recommended books :

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