

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	15
Teaching Assistant	Mahmoud Mohamed Khalaf Ahmed	

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: :

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|-----|---|
| 1 - | a1 Students understand the principles of construction methods and techniques. |
| 2 - | a2 Students can recognize construction requirements: methods, techniques and |

b.Intellectual Skills: :

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| 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: :

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| 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: :

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|-----|------------------------------------|
| 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.)