

**Faculty of Engineering & Technology**

**Project planning and Control**

**Information :**

**Course Code :** SCM 451      **Level :** Undergraduate      **Course Hours :** 3.00- Hours

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

**Instructor Information :**

Title	Name	Office hours
Professor	Ibrahim Mahmoud Mahdi Mostafa	7
Professor	Ibrahim Mahmoud Mahdi Mostafa	7
Assistant Lecturer	Reham Milad Kamel Samaan	
Teaching Assistant	Ahmed Salah Rashad Ahmed Abdelhakk	4
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**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 delivery methods cost estimate material & labor planning equipment planning construction costing & cash flow control time & cost

**Description :**

Network planning concept: critical path, preceding, project evaluation and review techniques, Bar chart, Line of balance, Network compression, Resource allocation, Project monitoring, Corrective action.

**Course outcomes :**

**a. Knowledge and Understanding: :**

1 -	a1- List the main items of delivery methods
2 -	a2- Describe the main concept of cost estimate

**b. Intellectual Skills: :**

1 -	b1- Assess issues of delivery methods
2 -	b2- Calculate the values of cost estimate
3 -	b3- Calculate the values of material & labor planning
4 -	b4- Assess issues of equipment planning
5 -	b5- Solve problems regarding construction costing & cash flow
6 -	b6- Solve problems regarding control time & cost

**c. Professional and Practical Skills: :**

1 -	c1- Prepare technical reports for cost estimate
2 -	c2- Prepare technical reports for equipment planning

3 -	c3- Draw neat details of construction costing & cash flow
4 -	c4- Demonstrate presentation regarding control time & cost
<b>d.General and Transferable Skills: :</b>	
1 -	d1- Work in a team

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
delivery methods	8	6	2
cost estimate	8	6	2
material & labor planning	8	6	2
equipment planning	8	6	2
construction costing & cash flow	12	9	3
control time & cost	12	9	3
Revision	4	3	1

**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- Exam I, II	30.00		
Quizzes / Assig.	15.00		
Report / Present.	15.00		

**Course Notes :**

Lecture Notes
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