

## 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 :

At the end of this course, students will be able to:

1. Understand the basic requirements of construction planning.
2. Understand the meaning of time, resources and cost planning.
3. Understand the different types of construction planning and control.

#### 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 -	Students understand the principles of Project planning in Construction
2 -	Students can recognize management requirements: techniques and tools

##### **b.Intellectual Skills: :**

1 -	Analyze the quantity take-off and quantity working-off
2 -	Knowing the organization structures of construction works
3 -	Develop balanced and un-balanced bill
4 -	Develop tendering documents

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

1 -	Establish construction plans
2 -	Understand the targets of planning and control
3 -	Apply knowledge of mathematics, science and engineering

#### **d.General and Transferable Skills: :**

1 -	Lead and motivate individuals
2 -	Manage time and meet deadlines

#### **Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to Project Management and Planning	4	3	1
Project Delivery Methods, Stages for tender preparation and project cost system and Risk Management	12	9	3
Material and Labor planning and management	12	9	3
Equipment planning and management	4	3	1
Construction costing and cash flow	8	6	2
Project Control, time cost trade-off and Update	12	9	3
Project Control, time cost trade-off and Update	4	3	1

#### **Teaching And Learning Methodologies :**

Lectures
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 :**

Lecture Notes
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