

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	9
Teaching Assistant	Ahmed Salah Rashad Ahmed Abdelhakk	4

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