

**Faculty of Engineering & Technology**  
**Project Management and Feasibility Studies**

**Information :**

**Course Code :** ARC 581

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

**Department :** Department of Architectural Engineering

**Instructor Information :**

Title	Name	Office hours
Assistant Lecturer	Rania Ahmed Kamel El Tahan	2
Assistant Lecturer	Rania Ahmed Kamel El Tahan	2
Teaching Assistant	Heba Mohamed Abdullah Ahmed Ghuneim	
Teaching Assistant	Mariam Maged Kamal Eldeen Mohamed Gomaa	

**Area Of Study :**

- 1- Prepare the economic analysis of the construction projects.
- 2- Prepare the time schedule for different projects.
- 3- Update the project schedule in different intervals.
- 4- Construct the resources allocations and leveling.
- 5- Construct the project cash flow

**Description :**

Introduction to project management and feasibility studies. Principles of project life cycle, role and activity of a manager, project breakdown structure, economic analysis of projects, interest and time value of money, discounted cash flow, evaluation of projects, Project time programming and control.

**Course outcomes :**

**a.Knowledge and Understanding: :**

1 -	Define the concept of "Project Management".
2 -	Identify the meanings of project phases: Design, Construction Planning, execution
3 -	Identify different approaches of "construction planning".
4 -	Identify different problem types that the project may face in its different phases.
5 -	Explain the importance of project finance/profit analysis for the feasibility study of project construction.

**b.Intellectual Skills: :**

1 -	Analyze the project financial problems.
2 -	Criticize case studies.
3 -	Evaluate the economic value in construction projects.
4 -	Derive different methods of planning and scheduling techniques.

### c. Professional and Practical Skills: :

1 -	Write updating reports during construction stages.
2 -	Use appropriate techniques for planning construction schedules.
3 -	Prepare W.B.S and network plan

### d. General and Transferable Skills: :

1 -	Write reports.
2 -	Deal with colleagues according to professional ethics

### Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction	3	2	3
economic analysis	6	4	6
Planning and scheduling of construction projects using Bar chart	6	4	6
Planning and scheduling techniques	6	4	6
Principals of feasibility studies.	6	4	6
Programming of projects using network techniques	6	4	6
Project up-dating and control	9	6	9
Revision	3	2	3

### Teaching And Learning Methodologies :

Class Lectures.
Assignments.
group discussion.

### Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments	20.00		
Final-term Examination.	40.00		
Mid-Term Examinations.	30.00		
participation	10.00		

### Course Notes :

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### Recommended books :

Ronald McCaffer , Frank Harris & Francis Edum-Fotwe/Modern Construction Management/Sixth Edition/Blackwell Publishing.

### Periodicals :

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**Web Sites :**