

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 |
|--------------------|------------------------------------|--------------|
| Lecturer | DINA EID SAID KHATER | 2 |
| Assistant Lecturer | ETHAR ESSAM MAHMOUD ALY ELSHINAWY | |
| Assistant Lecturer | Rania Ahmed Kamel El Tahan | 1 |
| Assistant Lecturer | Rania Ahmed Kamel El Tahan | 1 |
| Teaching Assistant | Ahmed Salah Rashad Ahmed Abdelhakk | |

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: :

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| 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: :

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|-----|---|
| 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: :

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| 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: :

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|-----|---|
| 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 :

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

Periodicals :

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Web Sites :

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