FUTURE UNIVERSITY IN EGYPT جامعة المستقبل

Faculty of Engineering & Technology

Project Management

Information :

Course Code :	MAN 592	**Level :**	Undergraduate	**Course Hours :**	2.00- Hours

Department : Department of Mechanical Engineering

Instructor Information :

Title	Name	Office hours
Associate Professor	Dina Mahmoud Mohamed Elsayed Mansour	
Assistant Lecturer	Ahmed Salah Rashad Ahmed Abdelhakk	

Area Of Study :

Enrich the studentôs understanding of the different aspects of project management.
Develop the studentôs ability to apply the different principles and practices of project management.
Enhance the studentôs ability to integrate the different principles and practices of project management in a group project.

Description :

Modeling of projects, tasks and sub tasks as activity networks, Principles and practices of critical path methodology under conditions of certainty (CPM) and uncertainty (PERT), Resource loading and cost crashing concepts, Project control, and extensive use of computer programs used in managing.

Course outcomes :

a.Knowledge and Understanding: :	
1 -	Comprehend the different knowledge areas of project management
2 -	List project constraints
3 -	Define project, project players and project deliverables
4 -	Define and describe project lifecycle
5 -	Describe quality and quality management tasks
6 -	Define the four cost categories related to quality management
7 -	Understand the critical path method
8 -	Estimate the duration of the stochastic activity duration
9 -	Understand the team and communication management.
b.Intellectual Skills: :	
1 -	Identify and analyse risks associated with an engineering project
2 -	Evaluate the impact of the resources limitation on the duration of the project.
3 -	Develop the activity on arrow, activity on node, and Gantt charts for projects

4 -	Determine the crashed duration of a project.
5 -	Determine the cost profile for a project.
6 -	Evaluate the duration of the project under uncertainty of activity durations.
c.Professional and Practical Skills: :	
1 -	Utilize computer programs such as Microsoft project to perform time management for a project.
2 -	Select an engineering project and collect the information about its activities.
3 -	Apply project management principles and procedures on an engineering project
4 -	Prepare and present a project technical report.
d.General and Transferable Skills: :	
1 -	Estimate duration, cost, resources for different activities for an engineering project
2 -	Work in a group project
3 -	Submit on time assignments and project.
4 -	Utilize computer software such as Microsoft project for time management
5 -	Conduct appropriately course project presentation using power point.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Course Outline Introduction to Project Management	4	2	2
Project Life Cycle Scope Management	8	4	4
Time Management	8	4	4
Quality Management	4	2	2
Risk Management	8	4	4
Resources Management	4	2	2
Teamwork and Communication Management	2	2	2
Cost Management	2	2	2
Project description and phases follow up	6	2	4
Midterm Exams	4	4	0
Project Presentations	6	2	4

Teaching And Learning Methodologies :

Interactive Lecturing
Problem solving
Project
Research

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
1st Midterm	15.00	6	

2nd Midterm	15.00	11	
Assignments, & Quizzes	10.00		
Attendance and class participation	10.00		
Final Exam	40.00	16	
Project	10.00		

Recommended books :

Kerzner, Harold R. ñProject Management: A Systems Approach to Planning, Scheduling, and Controllingò11 th edition, John Wiley & Sons Inc., 2013.
ñA Guide to Project Management Body of Knowledge (PMOK Guide)ò 4 th edition, Project Management Institute (PMI), 2008.