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
Assistant Lecturer	Ahmed Amr Kadry Ahmed Shaheen	
Teaching Assistant	Ahmed Salah Rashad Ahmed Abdelhakk	

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 -	Develop conceptual and detailed design ofconstruction projects and fluid power systems..
2 -	Identify principles in the fieldofdesignoffluidflow, thermodynamics,gasdynamics,turbo-machinery, heattransferengineering and fundamentals of thermal and fluid processes
3 -	Identify principles in the of design of mechanical components,differentmaterials,andmanufacturingtechnologies in the field of mechanical power engineering and some other engineering disciplines.
4 -	Identifybasicappliedand engineeringscience.
b.Intellectual Skills: :	
1 -	Organize tasks into a structured form
2 -	Analyze the performance of the basic types of internal combustion engines, hydraulic machines, fluid power systems, subsystems and various control valves and actuators.
3 -	Derivedifferentsolutionalternativesfortheengineeringproblems, analyze, interpret data and design experiments to obtain new data, and evaluate the power losses in the fluid transmission lines and networks
4 -	Definethe mechanical powerengineeringproblems and evaluate designs, processes, and performance and propose improvements.
c.Professional and Practical Skills: :	
1 -	Write computerprograms pertaining to mechanical powerandenergy engineering to describe the basic thermal and fluid processes mathematically, and use the computer software for their simulation and analysis
2 -	Prepare engineering drawings, computer graphics, and write specialized technical reports.
3 -	Analyze the record data in the laboratory.

4 -	Use laboratory, workshop e4quipment and field devices competently and safely.
d.General and Transferable Skills: :	
1 -	Lead and motivate individuals and work with others according to the rules of the professional Ethics.
2 -	Share ideas, communicate effectively and work in stressful environmentand within constraints.
3 -	Collaborate effectively within multidisciplinary team.

Teaching And Learning Methodologies :
Lectures
Tutorial
Class discussions and activities
Homework and self-study

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
1st Midterm	25.00	6	
2nd Midterm	25.00	11	
Assignments	10.00	15	
Final Exam	40.00	16	