

Faculty of Engineering & Technology

Engineering Economics

Information :

Course Code : MAN 381	Level	:	Undergraduate	Course Hours :	2.00- Hours

Department : Department of Mechanical Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	Arafa Soliman Sobh Khalil Arafa	2
Lecturer	Arafa Soliman Sobh Khalil Arafa	2
Teaching Assistant	Mirna Sharif Mohamed Salama	
Teaching Assistant	Manar Magdy Hassan Mohamed	1

Course outcomes :

<u>Course ou</u>	
a.Knowled	ge and Understanding: :
1 -	Identifybasicappliedand engineeringscience.
2 -	Identify principles in the of design of mechanical components, different materials, and manufacturing technologies in the field of mechanical power engineering and some other engineering disciplines.
3 -	Identify principles in the fieldofdesignoffluidflow, thermodynamics,gasdynamics,turbo-machinery, heattransferengineering and fundamentals of thermal and fluid processes
4 -	Develop conceptual and detailed design of construction projects and fluid power systems
b.Intellect	ual Skills: :
1 -	Define the mechanical powerengineering problems and evaluate designs, processes, and performance and propose improvements.
2 -	Derivedifferentsolutionalternativesfortheengineeringproblems, analyze, interpret data and design experiments to obtain new data, and evaluate the power losses in the fluid transmission lines and networks
3 -	Analyze the performance of the basic types of internal combustion engines, hydraulic machines, fluid power systems, subsystems and various control valves and actuators.
c.Professi	onal and Practical Skills: :
1 -	Use laboratory, workshop e4quipment and field devices competently and safely.
2 -	Analyze the record data in the laboratory.
3 -	Prepare engineering drawings, computer graphics, and write specialized technical reports.
4 -	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
d.General	and Transferable Skills: :
1 -	Collaborate effectively within multidisciplinary team.



2 -	Share ideas, communicate effectively and work in stressful environmentand within constraints.
3 -	Lead and motivate individuals and work with others according to the rules of the professional Ethics.

Teaching And Learning Method	dologies :			
Lectures				
Tutorial				
Class discussions and activities				
Homework and self-study				
0				
Course Assessment :				
Methods of assessment	Relative weight %	Week No	Assess What	

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	