

Faculty of Engineering & Technology

Graduation Project I

Information:

Course Code: MKT 500 Level: Undergraduate Course Hours: 2.00- Hours

Department: Specialization of Mechatronics Engineering

Instructor Information :				
Title	Name	Office hours		
Teaching Assistant	Donia Waheed Mohamed Abdelmonem Saleem			

Description:

An engineering assignment requiring the student to demonstrate initiative and assume responsibility, Students can propose their own project, A project report is required at the end of the tenth semester.

ourse ou	tcomes:
.Knowled	lge 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
.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.
.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
.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 Methodologies :		
Lectures		
Tutorial		
Class discussions and activities		
Homework and self-study		

Course Assessment :						
Methods of assessment	Relative weight %	Week No	Assess What			
Discussion	50.00	16				
Year Work	50.00	11				