

Faculty of Engineering & Technology

Sensors and Signal Conditioning

Information:

Course Code: MKT 505 Level : Undergraduate Course Hours: 2.00- Hours

Department: Specialization of Mechatronics Engineering

Instructor Information:		
Title	Name	Office hours
Associate Professor	Abdelhamid Abdelwahab Mohamed Abdelwahab	4
Associate Professor	Abdelhamid Abdelwahab Mohamed Abdelwahab	4
Teaching Assistant	Ahmed Mahmoud Mohamed Mahmoud Hegazy	1
Teaching Assistant	Shaimaa Mohamed Ali Abdelkader Zedan	1

comes :			
ge and Understanding: :			
Identifybasicappliedand engineeringscience.			
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.			
Identify principles in the fieldofdesignoffluidflow, thermodynamics,gasdynamics,turbo-machinery, heattransferengineering and fundamentals of thermal and fluid processes			
Develop conceptual and detailed design of construction projects and fluid power systems			
al Skills: :			
Definethe mechanical powerengineeringproblems and evaluate designs, processes, and performance and propose improvements.			
Derivedifferentsolutionalternativesfortheengineeringproblems, analyze, interpret data and design experiments to obtain new data, and evaluate the power losses in the fluid transmission lines and networks			
Analyze the performance of the basic types of internal combustion engines, hydraulic machines, fluid power systems, subsystems and various control valves and actuators.			
nal and Practical Skills: :			
Use laboratory, workshop e4quipment and field devices competently and safely.			
Analyze the record data in the laboratory.			
Prepare engineering drawings, computer graphics, and write specialized technical reports.			
ind Transferable Skills: :			
Collaborate effectively within multidisciplinary team.			
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		
Futorial		
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			