

Faculty of Engineering & Technology

Sensors and Instrumentations

Information :

Course Code : MEC330

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Mechatronics Engineering

Instructor Information :

Title	Name	Office hours
Professor	Osama Esmail Mahmoud Esmail	1
Assistant Lecturer	Rana Mohamed Abdel Rahman Saleh	
Teaching Assistant	Donia Waheed Mohamed Abdelmonem Saleem	

Description :

Instrumentation techniques incorporating computer control, sampling, and data collection. Data analysis, Transducers and sensors, measurement principles, resistive, inductive, capacitive impedances. Measurements of pressure and flow rates manometers, pressure gauges, pitot tube, venturi orifice, nozzle flow meters. Measurements of temperature thermometers, thermocouples, Measurements of force, torque, strain, displacement, length, and area, Viscosity measurements. Actual hands-on experience with electronic and measurement equipment, such as oscilloscopes, breadboards, function generators, digital data acquisition systems.