

Faculty of Engineering & Technology**Measurements & Instrumentation****Information :****Course Code :** EED301**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Electrical Power Engineering**Instructor Information :**

Title	Name	Office hours
Associate Professor	Mohamed Hassan Mohamed Elmahlawy	2
Teaching Assistant	Shahd Ahmad Samir Ibrahim	

Description :

Introduction to Units, Standards, and Measurements Errors. Electromechanical Instruments and DC meters. Resistance, Inductance and Capacitance measurements and DC/AC bridges. Digital Basic Instruments, Digital counters, A/D & D/A converters. Digital measuring instruments: digital multimeters and frequency meters. Cathode Ray Oscilloscopes and its applications in phase and frequency measurements, Digital Storage Oscilloscopes, Signal Generators and Spectrum Analyzer. Introduction to Sensors: Electromechanical sensors, temperature sensors, light sensors, and biomedical sensors