

## 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	1
Teaching Assistant	Ahmed Khaled Mohey Ibrahim Elrweny	
Teaching Assistant	Shahd Ahmad Samir Ibrahim	
Teaching Assistant	Merna Mohamed Emad Khafagy	

#### 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