

## Faculty of Engineering & Technology

## **Measurements & Instrumentation**

Information :						
Course Code :	EED301	Level	:	Undergraduate	Course Hours :	3.00- Hours
Department :	Biomedical Engineering					
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