

## **EE 211- Electrical Measurements and Instrumentation (1)**

### **CREDIT HOURS**

3 Hours

### **CONTACT HOURS (Hours/week)**

Lecture: 2; Tutorial: 2; Lab: 2

### **COURSE COORDINATOR**

Prof. Hassan Ibrahim

### **TEXT BOOK:**

J.B. Gupta, "A Course in Electronic and Electrical Measurements and Instrumentation",  
Prentice- Hall

### **COURSE DESCRIPTION:**

Accuracy of measurement and error analysis. Absolute and secondary instruments and indicating instrument. Moving coil and moving iron instruments. Dynamometer type instruments. Induction type instruments. Wattmeter of Measuring of power and power factor. Bridges (DC). Bridges (AC). Current and potential transformers. Oscilloscopes.

### **PREREQUISITE:**

EE 231

### **RELATION OF COURSE TO PROGRAM:**

Required

### **COURSE INSTRUCTION OUTCOMES:**

The student will be able to perform experiments to determine various types of errors in measurements.

The students will be familiar with various measuring instruments used to detect electrical quantities.

### **TOPICS COVERED:**

- Accuracy of measurement and error analysis
- Absolute & secondary
- Moving coil
- Dynamometer
- Induction instruments
- Measurement of active power and power factor
- DC and AC bridges
- Current and potential transformers
- Oscilloscope.

# Course Syllabus Measurements And Instrumentation

**Richard Bailey**



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