

Course Syllabus

Course Code and Name	EE 26434 – Electrical and Electronic Measurements
Credit and contact hours	3 (2, 1, 1) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (7) / Year (4)
Course Prerequisite	EE 26231 Fundamental of Electronic Devices EE 26332 Logic Circuits Design
Textbook	David A. Bell, ‘Electronic Instrumentation and measurements’ 3rd edition, Prentice Hall. 2016.
Course Description	This course covers the following topics: Introduction - Measurement Fundamentals - Measurement units and standards - Measurement Errors and Statistical Analysis - DC indicating Meters, Electronic instruments – AC indicating Meters – Ohmmeter – Oscilloscope: Amplifiers, Attenuators, and differences. - Transducers, Sensors. - Spectrum analyzer. - Digital measurements (Digital voltmeter). - Liquid Crystal Displays (LCD) - Grounding shielding and noise.
Brief List of Topics to be Covered	<ol style="list-style-type: none">1- Measurement Fundamentals, Units and Standards2- Measurement Errors and Statistical Analysis3- DC indicating Meters.4- AC indicating Meters.5- Ohmmeter6- Oscilloscope7- Transducers, Sensors.8- Spectrum analyzer9- Digital measurements (Digital voltmeter).10- Liquid Crystal Displays (LCD)
Course is prerequisite for	-