

ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

Course Code:13EC1120

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Course Outcomes:

At the end of the course the student will be able to

- CO 1** Comprehend concepts and performance characteristics of instruments.
- CO 2** Illustrate the functional blocks of CRO.
- CO 3** Compare various types of wave analyzers and analyze Digital meters.
- CO 4** Design different types of bridge circuits to measure unknown components of R, L, C and Quality factor.
- CO 5** Analyze various measuring techniques to measure non-electrical quantities such as pressure, force, temperature, displacement, speed and humidity.

UNIT-I

(14 Lectures)

MEASUREMENT SYSTEMS:

Performance characteristics of instruments, Static characteristics, Accuracy, Resolution, Precision, Expected value, Error, Sensitivity. Errors in Measurement, Dynamic Characteristics-speed of response, Fidelity, Lag and Dynamic error, DC Voltmeters, Ammeters- Multi-range, Range extension, AC voltmeters-multi-range, range extension-shunt. Thermocouple type RF ammeter, Ohm meters series type, shunt type, Voltage, Current, Resistance measurement using DMM, Auto zeroing, Auto ranging.

UNIT-II

(12 Lectures)

CATHODE RAY OSCILLOSCOPE:

Oscilloscopes CRT features, vertical amplifiers, horizontal deflection

Course Syllabus Measurements And Instrumentation

David Kirk



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