

## EEE 372 Measurement and Instrumentation

General Instrumentation, Basic Meter in Dc measurement. Basic meter in AC Instrument s; rectifier voltmeter, electro – dynamometer and wattmeter, instrument transformers; DC and AC bridges and their applications; general form of AC bridge universal impedance bridge; Electronic instruments for the measurements of voltage, current resistance and other circuit parameter, electronic voltmeters, AC voltmeters using rectifiers, electronic multimeter, digital voltmeters; oscilloscope: vertical deflection system, horizontal deflection system, probes, sampling CRO, instruments for generating and analyzing waveforms; square – wave and their applications: time base generators wave analyzers, electronic counters and their applications: time base circuitry, universal counter measurement modes; Analog and digital data acquisition systems: tape recorders, D/A and A/D conversions, sample and hold circuits.