

SYLLABUS :-

Sensitivity of d.c bridge, measurement of low and high resistances, d.c. potentiometer, principles of a.c. bridges for measurement of L and C; Instrument specifications and error analysis; Extension of Instrument range: CT and PT.âArsonval Galvanometer, moving coil meters, dynamometer type wattmeter and induction type energymeter. Electronic voltmeter, precision rectifiers, true r.m.s voltmeter; basics of digital measurements: A/D and D/A converters, programmable gain amplifier- auto-ranging; comparators and function generators; elements of digital multimeter; Hall effect sensor, clamp-on meter; solid state energymeter, frequency, phase angle and time period measurement. Cathode Ray Oscilloscope, Digital Storage Oscilloscope. Sample and Hold circuits, Data Acquisition Systems.