



**SRI KRISHNA COLLEGE OF TECHNOLOGY  
(AN AUTONOMOUS INSTITUTION)  
KOVAIPUDUR, COIMBATORE - 641042.**



**DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING**

**13IC312    TRANSDUCER AND MEASUREMENTS LABORATORY:**

1. Calibration of Single-phase energy meter and watt meter.
2. Calibration of Ammeter and Voltmeter using student type potentiometer.
3. Calibration of CT and PT.
4. Measurement of resistance using Kelvin's double bridge and Wheatstone bridge.
5. Capacitance measurement using Schering Bridge and Inductance measurement using Anderson Bridge.
6. Characteristics of Potentiometric Transformers.
7. Characteristics of Strain Gauge and Load Cell.
8. Characteristics of LDR, Thermistor and Thermocouple.
9. Step response characteristics of RTD and Thermocouple and Study of smart transducers.
10. Characteristics of LVDT, Hall Effect Transducer and Photoelectric Tachometer.

**LIST OF EQUIPMENTS AVAILABLE.**

S.No	Equipment Name	S.No	Equipment Name
1	Potentiometer Linear kit	15	Piezoelectric Transducer
2	Regulated power supply (single)	16	Schering Bridge
3	Regulated power supply (dual)	17	Anderson Bridge
4	Thermocouple & RTD trainer kit	18	Decade Resistance Box
5	Ordinary voltmeter (DC)	19	Decade Capacitance Box
6	Canon LBP 2900 printer	20	Decade Inductance Box
7	EPSON LCD projector	21	Function Generator (3 MHZ)
8	AC Ammeter	22	DC Ammeter (0-100 mA)
9	Single phase energymeter	23	AC Ammeter (0-5 A)
10	Wattmeter (UPF)	24	AC Ammeter (0-2 A)
11	Single phase autotransformer	25	AC Ammeter (0-10 A)
12	LVDT trainer kit	26	AC Voltmeter (0-10 V)
13	Load cell Trainer kit	27	AC Voltmeter (0-300 V)
14	Hall effect trainer kit		