



S. N. Patel Institute of Technology & Research Centre, Umrakh

(A Vidyabharti Trust Institution)

BE / Electrical Engineering Department

Subject Name: Electrical Measurements and Measuring Instruments

Subject Code: 3160915

Sr. No.	Experiment
1	To study operation of a strain gauge amplifier and strain gauge transducer.
2	To study and perform of Linear Variable Differential Transducer (LVDT).
3	To measure value of unknown capacitance by Wein's bridge.
4	To study about the measurement of high resistance using Megger.
5	To study the characteristics of 3-wire RTD by demonstration.
6	To study the characteristics of Thermistor by demonstration.
7	To study the characteristics of Chromium Aluminum thermocouple.
8	To measure value of unknown inductance by Hay's bridge.
9	To measure unknown inductance by Maxwell's bridge.
10	To measure unknown value of capacitance by Schering's bridge.



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Civil Engineering Department

Subject Name: Instrumentation and Sensors

Subject Code: 3160620

Sr.No.	Experiment
1	To understand the working principle of RTD
2	To study the performance of Biosensor (Pulse measurement technique)
3	To study the tank level measurement using capacitance level probe
4	To understand working principle of LVDT
5	To study an orifice plate for a typical application
6	To understand the working principle of chemical sensors
7	To understand the working principle of Strain gauge
8	To understand the working principle of Thermocouple