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DEPARTMENT OF BIOMEDICAL ENGINEERING

B.E. Biomedical Engineering (R 2021) Semester – III

SENSORS AND MEASUREMENTS LABORATORY

COURSE OBJECTIVES:

- To introduce the relevance of this course to the existing technology through demonstrations, simulations with a futuristic vision along with socio-economic impact and issues.
- To study the characteristics of sensors, signal conditioning circuits and display devices.

LIST OF EXPERIMENTS:

- 1. Calibration of voltmeter and ammeter using shunt type Potentiometer
- 2. Characteristics of thermistor
- 3. Characteristics of thermocouple
- 4. Characteristics of LDR
- 5. Characteristics of Photo Diode
- 6. Characteristics of Photo transistor
- 7. Characteristics of RTD
- 8. Characteristics of LVDT
- 9. Measurement of unknown Resistance using Kelvin Double Bridge and Wheatstone bridge
- 10. Measurement of unknown Capacitance using Schering Bridge
- 11. Measurement of unknown Inductance using Maxwell's & Hay's Bridge
- 12. Characteristics of Hall effect transducer
- 13. Characteristics of strain gauge
- 14. Study of Electronic nose
- 15. Demonstration of CRO & DSO
- 16. Characteristics of Piezoelectric Transducer



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Sensors And Measurements Laboratory at a Glance



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