

REE454: ELECTRICAL INSTRUMENTATION LAB

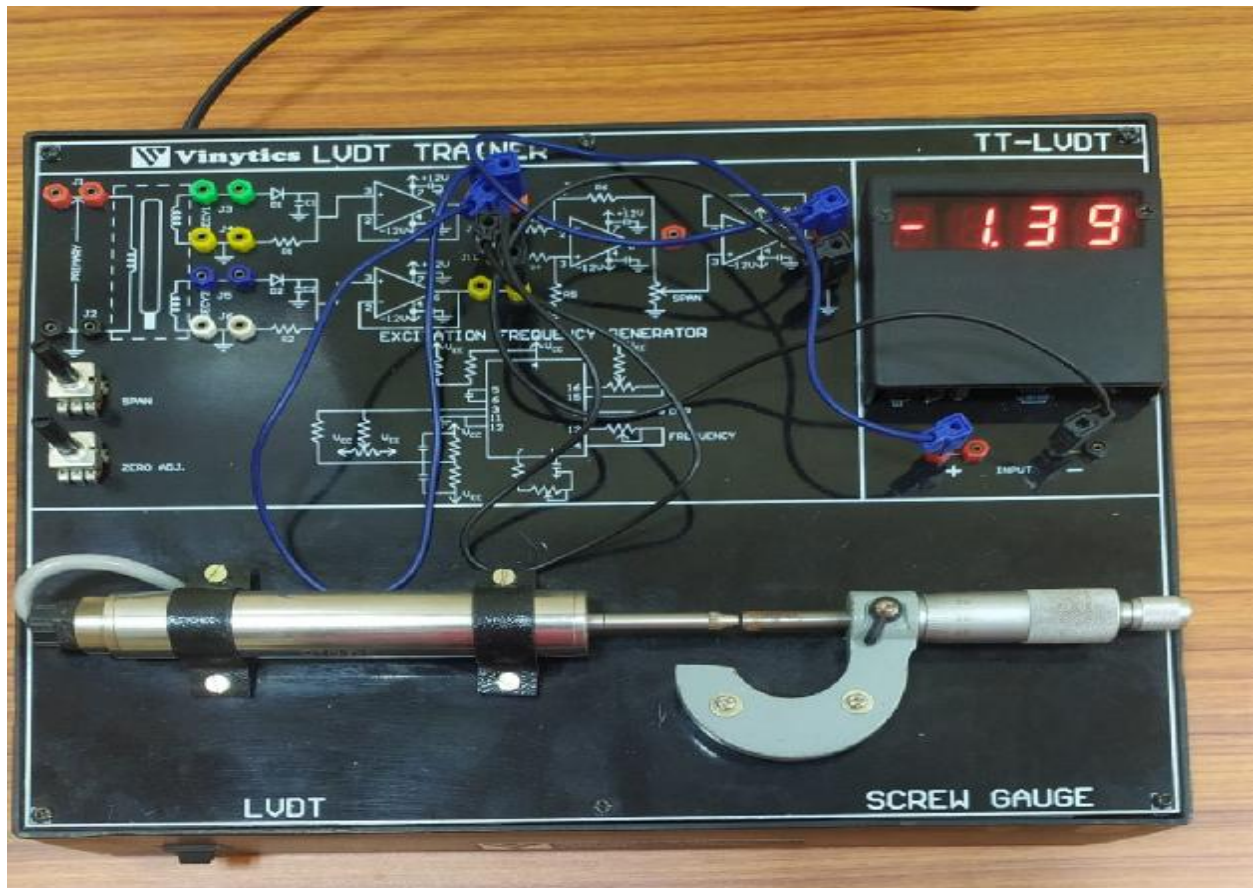
Note: Minimum ten experiments are to be performed from the following list

- 1. Measurement of displacement using LVDT.**
- 2. Measurement of load using strain gauge based load cell.**
- 3. Measurement of water level using strain gauge based water level transducer**
- 4. Measurement of temperature by RTD.**
- 5. Design and Test a signal conditioning circuit for any transducer.**
- 6. Simulate and analyze the frequency domain measurement of electrical signals using spectrum analyzer.**
- 7. Study of PID controllers in flow measurement.**
- 8. Measurement of flow rate by anemometer.**
- 9. Measurement of solar energy using sensor.**
- 10. Implementation of Color Sensor for differentiating frequencies.**
- 11. Determine rotational speed and angle of a motor shaft using Encoder.**
- 12. Range finding and object detection using detection sensor.**
- 13. Measurement using various sensors and analyzing the output using Lab-VIEW software.**
- 14. Design a circuit for noise reduction in measurement system.**





SSS



RAJKIYA ENGINEERING COLLEGE, AMBEDKAR NAGAR

INVENTORY SHEET

Department: **Electrical Engineering**
Inventory **Instrumentation Lab**

Sr. No	Product	Quantity	Remark
1.	Measurement of water level using strain gauge based transducer (TT-WLT)	2	All working
2.	Measurement of displacement using LVDT. (TT_LVDT)	2	All working
3.	Measurement of flow rate using anemometer.(TT-FRT)	2	All working
4.	Measurement of Temperature by thermocouple.(TT-TCT)	2	All working
5.	Measurement of displacement using strain gauge transducer (TT-SGT)	2	All working
6.	Measurement of displacement using magnetic pickup.(TT-MPT)	2	All working
7.	Measurement of Temperature by RTD.(TT-RTD)	2	All working
8.	Measurement of load using strain gauge base load cell.(TT-LCT)	2	All working
9.	Characteristics of solid-state sensor /fibreoptic sensor.(CT-DFT)	2	All working
10.	Transient response of RLC circuit .(AL-RLC)	2	All working
11.	Design & Test signal conditioning circuit(TT-THT)	2	All working
12.	PID controller. (CL-PID)	2	All working
13.	Digital Multi meter	1	All working
14.	CRO	1	All working

