

**FINOLEX ACDAEMY OF MANAGEMENT & TECHNOLOGY, RATNAGIRI.**

**DEPT. OF ELECTRONICS ENGG.**

**Name of the laboratory:- Instrumentation & Control.**

**LIST OF EXPERIMENTS.**

<b>1.</b>	<b>Electronic Measurements :-</b>
1	Study Of Multi-meters.
2	Calibration of Electronic Voltmeter.
3	Transistorized Voltmeter (TVM)
4	RMS Voltmeter
5	Peak Detector
6	Cathode Ray Oscilloscope (CRO)
7	Lissajous Patterns
8	Z / Intensity Modulation
9	Component testing Using CRO.
10	Universal Frequency Counter
11	Phase Measurement
12	Signal Generators.
13	Q Meter
14	DAC R-2R Ladder
15	Storage Oscilloscope
	<b>Instrumentation Systems :-</b>
16	Design OF Three OPAMP Instrumentation Amplifier.
17	Measurement of Temperature Using RTD.
18	Measurement of Temperature using Thermocouple.

19	Measurement of Pressure Using Piezoelectric Transducer.
20	Measurement of Displacement using LVDT.
21	Level Measurement.
22	Strain gauge (Using cantilever).
23	Electronic Weighing Machine (Load Cell).
24	Speed measurement Using Photo Pick-Up.
25	Speed measurement using Magnetic Pick-Up.
26	Temperature Measurement Using Solid state sensors (LM 35).
27	Data Acquisition System.
	<b>Controllers :-</b>
28	On off Controller (Temperature).
29	Analog PID Controller (Temp.).
30	Study of characteristics of P, I and D controller.
31	PID Controller (Temp.).
32	PI and PD Controller (Temp.).
33	Design of Electronic PID Controller.