5 th Semester	REL5C202	Control and	L-T-P	2 Credits
		Instrumentation	0-0-3	
		Laboratory		

Control and Instrumentation Laboratory

List of Experiments

(Perform any 10 Experiments)

Group-A (Control)

- 1. Study of a dc motor driven position control system
- 2. Study of speed torque characteristics of two phase ac servomotor and determination of its transfer function
- 3. Obtain the frequency response of a lag and lead compensator.
- 4. To observe the time response of a second order process with P, PI and PID control and apply PID control to servomotor
- 5. To determine the transfer function of a system (network) using transfer function analyser.
- 6. To study and validate the controllers for a temperature control system
- 7. To study the position control system using Synchroscope.

Group-B (Instrumentation)

- 1. To measure strain developed in a cantilever beam using strain gauges.
- 2. Study of temperature voltage characteristic of J type thermocouple
- 3. Measurement of linear displacement using LVDT
- 4. To measure unknown resistance, inductance and capacitance using different bridges.
- 5. Calibration of Single phase Energy meter

Digital Learning Resources:

Virtual Lab Link: http://202.3.77.143/virtuallab/login.php