



**SRI KRISHNA COLLEGE OF TECHNOLOGY  
(AN AUTONOMOUS INSTITUTION)  
KOVAIPUDUR, COIMBATORE - 641042.**



**DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING**

**13IC505**

**PROCESS CONTROL LABORATORY**

1. Response of different order processes with and without transportation delay.
2. Study of interacting and non interacting systems
3. Design of Electronics PID controller..
4. Response of PID controller using MATLAB.
5. Tuning of PID controller using MATLAB.
6. Closed loop response of flow control loop.
7. Closed loop response of level control loop.
8. Closed loop response of temperature control loop.
9. Closed loop response of pressure control loop.
10. Response of cascade, ratio and feed forward control scheme.
11. Response of multi loop control scheme.
12. Characteristics of control valve with and without positioner.

**LIST OF EQUIPMENTS AVAILABLE.**

<b>S.No</b>	<b>Equipment Name</b>
1	Response of PID controller
2	Different order process with and without delay
3	Interacting and Non-interacting system
4	Control Valve characteristics
5	Flow Control Trainer
6	Level Control Trainer
7	Temperature Control Trainer
8	Pressure control Trainer
9	Multi process Trainer
10	Air Compressor
11	Dot matrix printers
12	Laptop
13	Netgear
14	Personal computer