

## Process Dynamics and Control Lab

1.1 Course Number: CH342L

1.2 Contact Hours: 0-0-2 Credits: 02

1.3 Semester-offered: 3<sup>rd</sup> Year- even

### 2. List of Experiments:

S.No	Experiments
1	Control Valve Characteristics
2	Study of feedback pressure using PID Controller and software in Pressure Control Trainer
3	Study of Feedback Flow Using PID Software in Flow Control Trainer
4	Study of Feedback Flow Using PID Software in Temperature Control Trainer
5	Study of Feedback Flow Using PID Software in Level Control Trainer
6	Study of cascade control of flow and level
7	Feedback control of temperature using microprocessor based PID controller
8	To calculate the time constant of thermocouple
9	To study the dynamic Response of U-Tube Manometer and calculation of time constant.
10	To study the P/I and I/P Convertor system
11	Step and Impulse response of Two Tank Interacting System
12	Step and Impulse response of Two Tank Non-Interacting System
13	Measurement of Level by Air Purge Method
14	Measurement of Level by Capacitance Method