

Instrumentation and Process Control Laboratory Equipment and Experiment List

1. First Order Liquid Level System



2. First Order Linearization



3. Second Order System (Non-Interacting Tanks)



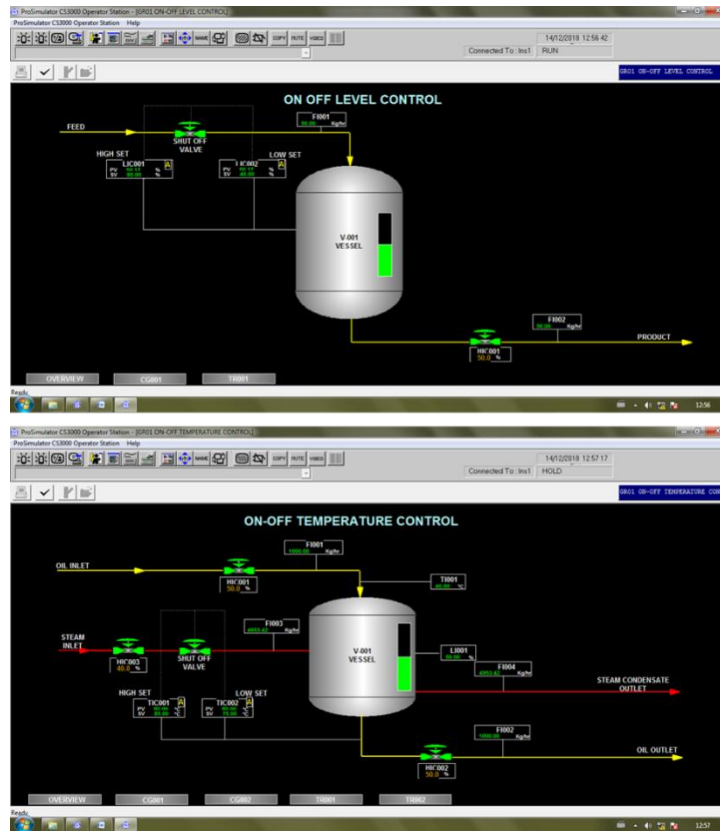
4. Second Order System (Interacting Tanks)



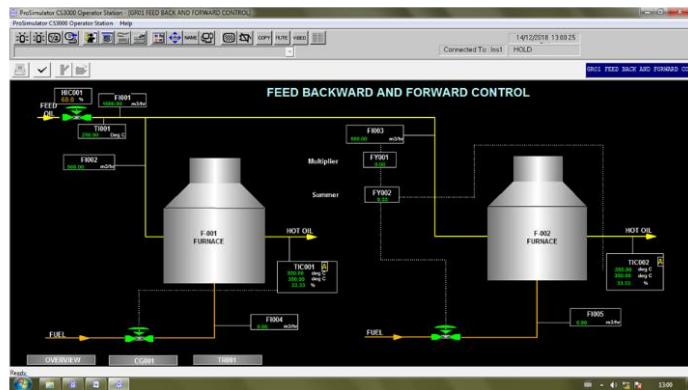
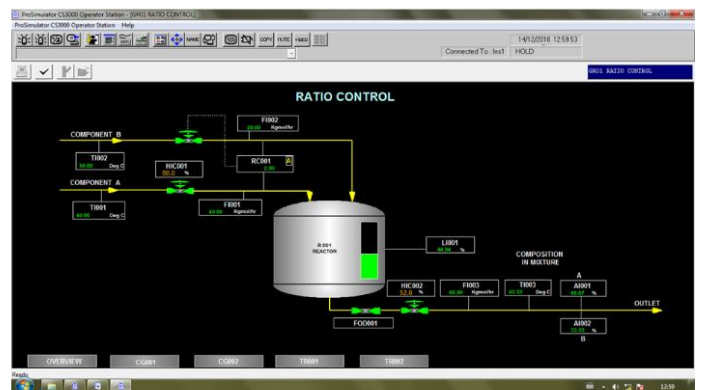
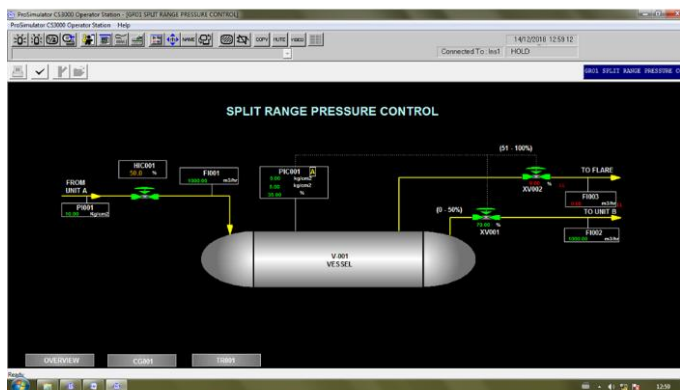
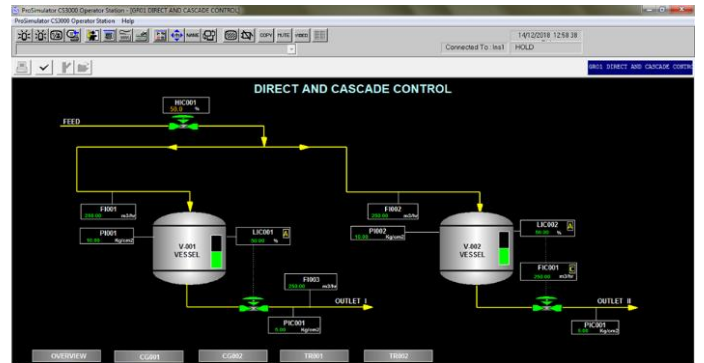
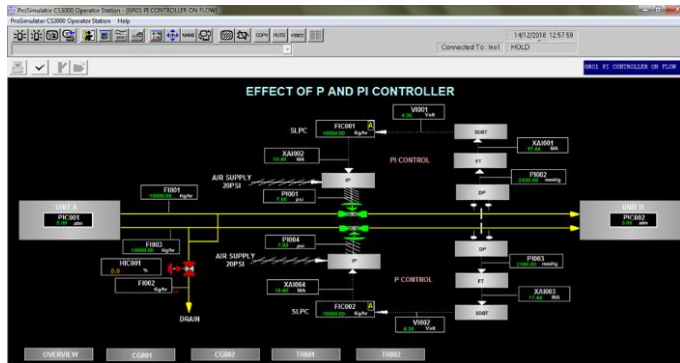
5. Dynamics of Manometer



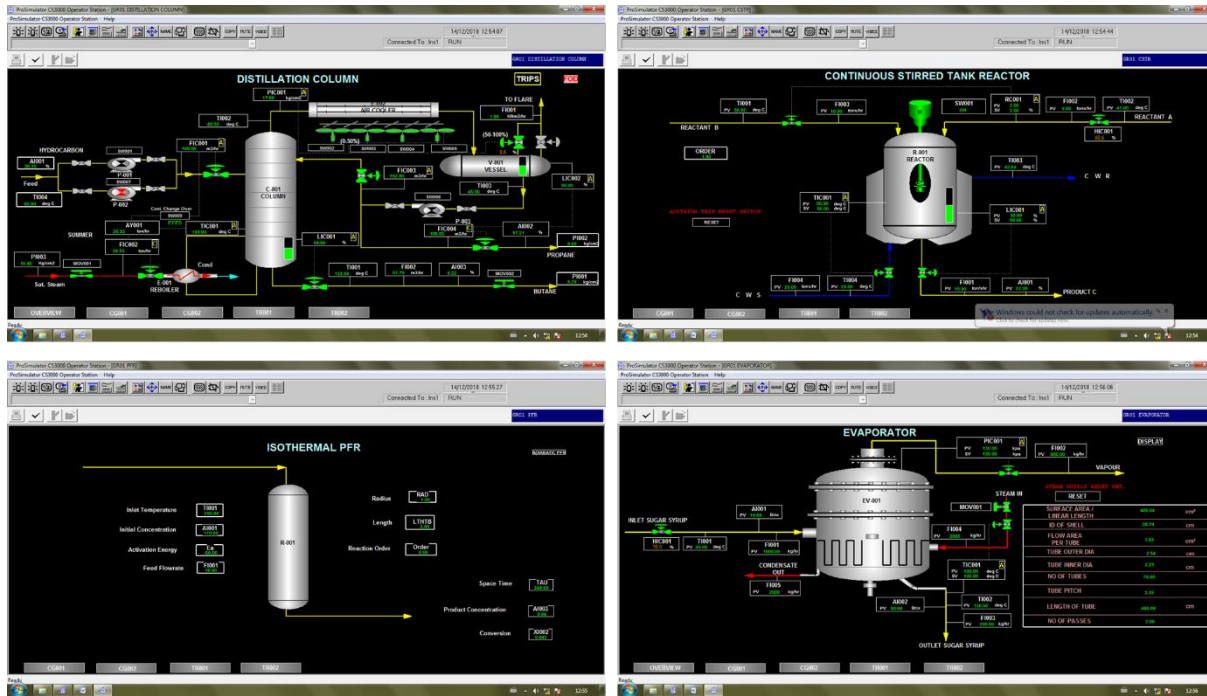
6. Simulation Software for understanding dynamics of On-Off level and temperature controller



7. Simulation Software for understanding dynamics of P and PI, Cascade and Direct, Split range, Ratio, Feed-forward and Feed-backward controller



8. Simulation Software for understanding dynamics of Distillation, CSTR, PFR and Evaporator



9. Flow Control Trainer



10. Pressure Control Trainer



11. Level Control Trainer



12. Temperature Control Trainer



13. Instrumentation: Anemometer, and Thermocouple Calibration



Sr. No	Experiment Title
1.	First Order Liquid Level System
2.	Linearization
3.	Second Order System (Non-Interacting Tanks)
4.	Second Order System (Interacting Tanks)
5.	Manometer
6.	Dynamic Simulation of On-Off Level and Temperature Controller
7.	Dynamic Simulation of P-PI Controller
8.	Dynamic Simulation of Cascade And Split Range Controller
9.	Dynamic Simulation of Ratio And Feed Back - Feed Forward Controller
10.	Dynamic Simulation of Distillation Operation
11.	Dynamic Simulation of CSTR
12.	Dynamic Simulation of PFR
13.	Dynamic Simulation of Evaporator
14.	Demo of Control Trainer: Flow, Pressure, Temperature and Level Control
15	Demo of Instrumentation Equipments: Anemometer, Thermocouple Calibration, PH Meter