

DEPARTMENT OF ELECTRICAL ENGINEERING INDUSTRIAL POWER LABORATORY-3

DCS APPLICATIONS LAB

List of Compulsory Experiments:

1. Level Control of tank using Cascade Controller. (EE6491-M.Tech Industrial Power and Automation, EE6191-M. Tech Instrumentation and Control System)
2. Level Control of tank using Split Range Controller. EE6491-M.Tech Industrial Power and Automation, EE6191-M. Tech Instrumentation and Control System)
3. Feed forward Control for various disturbances in the temperature process control. (EE6491-M.Tech Industrial Power and Automation, EE6191-M. Tech Instrumentation and Control System)
4. Distributed Control Systems application and logic operations with master and slave controllers. (EE6491-M.Tech Industrial Power and Automation, EE6191-M. Tech Instrumentation and Control System)
5. Conveyor Sorting System with color sensing fiber unit by using PLC and DCS. (EE6491-M.Tech Industrial Power and Automation, EE6191-M. Tech Instrumentation and Control System)
6. Stamping Process by using Programmable Logic Controller and DCS. (EE6491-M.Tech Industrial Power and Automation, EE6191-M. Tech Instrumentation and Control System)
7. MIMO system for multiple level, flow and temperature controls. (EE6491-M.Tech Industrial Power and Automation)

List of Desirable Experiments:

1. Process Interaction Observation in MIMO system
2. Level Control in Two tank Interacting Systems.
3. Cascade Control of Temperature Process tank.