| Name of Laboratory | **PROGRAMMABLE LOGIC CONTROL LAB** |
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| Objective of Lab | • To familiarize students with how signals from input devices (i.e. switches, sensors, etc.) can interface with PLC units in order to invoke certain actions (i.e. start/stop an electric motor, turn on a light etc.)<br>• The experiments are designed to provide skills in programming a PLC system for sequence control of typical industrial processes. |
| Description of Laboratory | State of the Art PLC Lab is having 5 different PLC kits with Siemens and Fanuc PLC. Along with these PLC, real time systems such as Automatic Bottling filling plant, conveyor control system, lift control module, sensor interfacing modules and density based traffic light controller is also available in PLC lab. Students learn basic as well as advanced concepts on interfacing and control of different automation processes through PLC lab. |

| Major Equipment of laboratory | <ul><li>Siemens and Fanuc PLC kits</li><li>Human Machine Interface (HMI) module</li><li>Real time Conveyor Control System</li><li>Variable Frequency Drive (VFD) with single phase induction motor</li><li>Servo and Stepper motor interfacing module</li><li>Bottle filling plant</li></ul> |
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