

Report on Automation (PLC/SCADA) Workshop

(ODD Sem 2015-16)

Automation (PLC/SCADA) Workshop were organised in the ECE Department for third Year students in P2P hall on 3rd November 2015. Third year students were divided in 14 batches of 5 students each. Automation (PLC/SCADA) Workshop was organised by APTRON Solutions and lecture has been taken by Mr. Deepak, Mr. Shanu and Mr. Ajay.

Description of content of Automation (PLC/SCADA) Classes held on 3rd November

This workshop aware student about industrial automation (plc scads). How PLC works and its applications.

- To Increase Labor Productivity
- To Improve Worker Safety
- To Improve Product Quality
- To Reduce Labor Cost
- To Reduce Manufacturing Lead Time
- To Avoid The High Cost Of Not Automating

Presentation on Recent Trends in Industrial Automation & PLC-SCADA

- Introduction To Automation
- Why We Need Automation
- Evolution In Industrial Automation (A Brief History)
- Different Type Of Industrial Control Mechanisms)
- Introduction to PLCs
- PLC Advantages over Microcontrollers
- Area of Applications
- DATA Flow During Automation
- Motor Drives Introduction & Their Need
- Sensors Introduction & Their Need
- HMI Introduction & Its Need
- SCADA Introduction& Its

PLC I/Os Basics, Burning & Interfacing Concepts

- Allen Bradley & Rockwell Automation's Details
- Brief Description To Input/ Output Pins Of Micrologix-1000
- Ladder Diagram Basics
- Introduction To RsLogix

- Downloading a Ladder Program in PLC Using RsLinx.
- How To Take Input from Panel
- How To Give Output To Panel
- Running First PLC Application

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