

A Report on Seminar

“Programmable Logic Controller and its Application in Process control and Automation”

'Via online Mode (Google Meet)'

By

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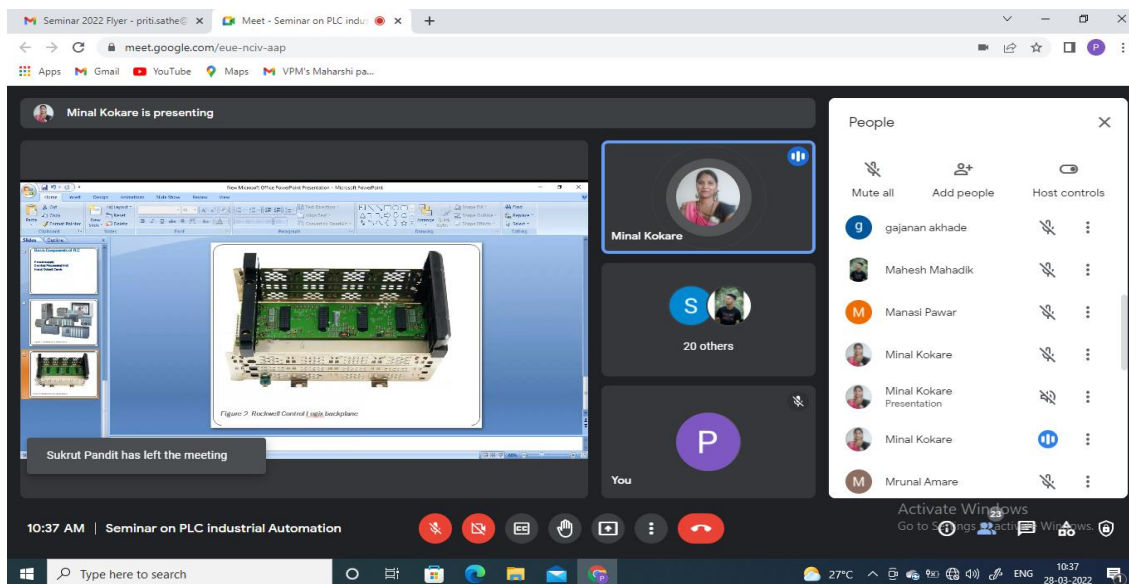
Monday, 28th March 2022, Time:10:00 am to 4:30 pm

Report

Department of Electrical Engineering have successfully conducted a seminar on “**Programmable logic Controller and its Application in Process control and Automation**” on 28th March 2022 at 10:00 a.m. to 4:30 p.m. Mr. B.S.V.G. Sharma were the Resource Person for this event. This event was organized for nearby Diploma students. Total 101 Students from Diploma College including 13Students from Third Year Electrical Department of MPCOE, Velneshwar were attended the seminar. Mr. B.S.V.G. Sharma(Ex BARC Scientist) has given brief information about What is PLC and how to use PLC in process control and Automation industries. The session was Fruitful.

Some photographs are attached herewith.

Introduction Session:



1st Session:

Special Type Input & Output Modules of PLC

- 1. Thermocouple Module:** This is a special type of Analog Input Module which takes the input signals from Thermocouples and can condition them as a **Input to PLC**.
- 2. RTD Module:** This is a special type of Analog Input Module which takes input signals from Resistance Temperature Detectors or Platinum Resistance Thermometers and can condition them as a **Input to PLC**.
- 3. Pulse Input Module or Reversible Counter Module:** It directly takes **Input from Incremental and Absolute Encoders** and condition them as PLC Input.
- 4. Pulse Output Module:** It gives output pulses from PLC for control of **Stepper Motors Speed or Shaft Rotation Position**.
- 5. PID Modules:** **Proportional Integral Derivative Modules** are also **used in some PLC Systems** which are **used for Valves as per control requirements**.

2368-Madhur Naik has left the meeting

11:52 AM | Seminar on PLC Industrial Automation

2nd Session

Automatic Bottle Filling Machine-1

Fluid

Solenoid Operated Control

Photoeye Detector Perpendicular To Bottle
To Check filling is completed and stop Operation

Fixed Rollers

Filled Bottles

Limit Switch

LS

Bottle reached below Nozzle

Feed Motor Drive M1

Outfeed Motor Drive (Always ON During Process) M2

PLC Lecture 3: PLC based Industrial Automation & Control (MPCOE March 2022)

3:11 PM | Seminar on PLC Industrial Automation

Seminar 2022 Flyer - priti.sathe@ x Meet - Seminar on PLC indu: x +

meet.google.com/eue-nciv-aap

Bobby Sharma is presenting

PLC SYSTEM : INPUT & OUTPUT DEVICES

Input CPU Output

Digital input ON/OFF state is input

Pulse train input

Analog input

Digital output ON/OFF state is output

Pulse train output

Analog output

CIO #1

UM #2

#1. Channel I/O
#2. User Memory

2:42 PM | Seminar on PLC Industrial Automation

Activate Windows
Go to Settings to activate Windows.

14:42
28-03-2022

Ms. Priti Sathe
Event Coordinator

Mr. Satish N. Ghorpade
HOD.