One-week Online Faculty Development Program

On

“INDUSTRIAL AUTOMATION”

(20th to 24th July 2020)

DTE approved

MSBTE approved

Organized by

Electrical Engineering Department
Government Polytechnic
Nanded

Web: www.gpnanded.org.in

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Electrical Department

Vision

To develop competent Diploma Electrical Engineers to cater the needs of Industry, Technical Education and society with good human values.

Mission

➢ To enrich the teaching learning process.
➢ To impart quality technical and professional skills.
➢ To establish effective Industry-Institute Interaction.
➢ To create awareness among students for social and environmental.

About the FDP: PLC is a Programmable Logic Controller, a digital computer used for industry automation that includes machineries, factory assembly lines, light fixtures, amusement rides, etc. PLC is used in many machines in all type of industries. This controller is designed for multiple arrangements, extended temperature ranges, analog
inputs and outputs, resistance to vibration and immunity to electrical noise.

PLC is powered by a non-volatile memory to automate the industry process. Modern PLCs offer advanced functionality with motion management, method management, relay management and sophisticated networking. PLC monitors inputs and different variables like values, create selection and manages output to automate a machine or method. Now, industries totally rely on industry automation, there is huge demand for PLC and Scada operators across the world. We have to take responsibility to upgrade students so as to accommodate them in tomorrow’s industry.

**Program outcomes:** The participants will be able to:

1. Know different types of PLC system.
2. Participants will be able to describe typical components of a PLC.
3. Participants will be able to explain the basic concepts of a PLC.
4. Participants will be able to state basic PLC terminology and their meanings.
5. Participants will be able to explain and apply the concept of electrical ladder logic and its relationship to programmed PLC instruction.
6. Test the PLC Program in different application.
7. Perform the Operation and control of PLC
8. Develop skills in operations, simulation, controllers and simple programming.

**Eligibility criteria:**
Faculty from Electrical / Mechanical / Medical Electronics, Production, Electronics Telecommunication Department of Polytechnics, Engineering.

**Registration Link:**
https://docs.google.com/forms/d/e/1FAIpQLSe1eqsK9O8W66eLvv1Sfb92BRH9BgB3OZNi3Z4hbJyzukPAg/viewform?usp=sf_link

**Last date of Registration:** 18<sup>th</sup> July 2020

**Registration fees :** Free of Cost

**Duration of program:**
20/07/2020 to 24/07/2020 (5 Days)

**Mode used for conduction of FDP:**
Online