

Importance of the course

As you are aware, today management of almost all manufacturing units are going for automating their plants using Instrumentation, Programmable Logic Controllers, Drives and Distributed Control Systems to survive in globally competitive market. Industrial automation is one of the high growth industries in India. Students can knock for the job in automation industry after completing the course.

Course Contents

MODULE – I

INTRODUCTION

- Introduction of automation.
- Types of automation.
- Automation products and its description.
- Explaining its aspects to engg.

What is PLC ?

- Introduction to PLC.
- Types of PLC.
- PLC and microcontrollers.
- Various manufactures for PLC.
- Architecture of PLC.
- PLC and its components.(power supply , CPU , I/O modules.)

MODULE – II

PLC Concepts

- Types of Inputs and outputs.
- Sinking and sourcing .

- Memory management and its significance.
- NO and NC concepts.
- PLC as hardware.
- PLC wiring concepts.

PROGRAMMING CONCEPTS

- Programming software and driver software.
- Creation of applications.
- Downloading and uploading the programs.

MODULE – III

PROGRAMMING INSTRUCTIONS

BIT Instructions

- NO / NC instruction
- OSR / OSF
- Latching & unlatching coils.
- Branching

Timer and Counter instructions

- On delay timer
- Off delay timer
- Retentive timer
- Up counter
- Down counter

Compare Instructions

- LES (lesser than instruction)
- GRT (greater than instruction)
- EQU (equal instruction)
- LIM (limit instruction)

Real time Projects

- Bottling plant
- Pick N place robot.
- Level control.

SCADA

MODULE – IV:

Introduction to general SCADA

- Why SCADA ?
- SCADA software and its significance.
- Manufacturers of Scada.
- Difference between HMI & Scada.
- Selection criteria for Scada.
- Features of SCADA.

TAG AND TAGTYPES.

- What is tag ? Its importance in software.
- What are tag types?

Creation of Applications.

- Creating new file.
- Getting known to Toolbar options.
- Symbol Factory and its utilities.
- Making an animation process.
- Simulating the process.
- Animation Properties and its utilities.
- Fill / location / visibility / orientation / value display / user display/ Size

MODULE – V:

- Configuration of ALARMS
- Configuration of TRENDS
- Interfacing SCADA with PLC.
- Selection of drivers.
- Local start and remote start concepts.

Profile of Govt. Polytechnic

Government Polytechnic, Nagpur is one of the prime Institutions of Government of Maharashtra established in 1914. This Institute imparts technical education at Diploma and Post Diploma levels and is well known for its excellence at State level and National level. Institute has been accredited by National Board of Accreditation, New Delhi.

Profile of Krish Infotech.

Krish Infotech is one of the leading turn-key automation solution and advanced automation-training provider having fully equipped facilities at Nagpur. To fill the vacuum between academia and industry practice, **Krish Infotech** imparts training on most widely used automation systems which include Programmable Logic Controllers such as Allen Bradley, GE Fanuc, Mitsubishi, Siemens and Wonderware's InTouch SCADA software, leading Drives and Advanced Instrumentation. We assure you that after going through the training most of your technical doubts will get sorted out as well as you will have practical experience on the system.

Infrastructure

Well-equipped Automation laboratory with a range of Desktops and other peripherals.

Timings

Morning : 8:00 am. To 10:00 am.

Evening : 6:30 pm. To 8:30 pm

Eligibility

B.E/Diploma/Professionals/Students

Course Fee

Rs. 7,000/- per candidate

Duration

5 Weeks (60 Hours)

For further details, please contact -

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