

**QIP Sponsored  
(Online)  
SHORT TERM COURSE  
ON**

**Future of Industrial Automation  
(Oct 05 – 10, 2020)**



**ORGANIZED BY**

**DEPARTMENT OF Electrical & Instrumentation  
Engineering**

**Sant Longowal Institute of Engineering &  
Technology**

(Deemed to be University under MHRD, Govt. of India)

**Longowal, Distt. Sangrur-148106  
Punjab (India)**

**Patron : Prof. Shailendra Jain,  
Director**

**Co-Patron : Prof. A. S. Arora  
Dean (Academics)**

**Convener : Prof. Sanjay Marwaha**

**Coordinators : Dr. Pratibha Tyagi  
Dr. Ashwani Aggarwal**

**Course Contents**

- Computer buses in Industrial Automation
- Time-dependent control
- Symbolic representation of devices, standards
- Relay Logics
- Electro-Pneumatics
- Programmable Logic Controllers
- Interfacing SCADA and HMI to PLC
- Role of IOT in Industrial Automation
- Artificial Intelligence in Industrial Automation
- Exposure to various softwares in Industrial Automation

**ELIGIBILITY**

This STC is open for participants from Industry person, Faculty members from AICTE approved Institute, Research Scholars and Undergraduate, Post-graduate students.

The number of participants for the course is limited to forty (40) on a first-come, first-serve basis.

**MODE OF CONDUCTION**

The training program will be conducted on a suitable online platform. All the participants who will attend all the meetings will be issued e-certificates post successful verification of the attendance.

**REGISTRATION**

The registration will be done online using the following link. The link is also available at <http://sliet.ac.in/>

**Link for Registration:**

<https://forms.gle/9Z73XN6w1Y8hW27D9>

- No registration fees for faculty from AICTE institutes.
- Rs. 200/- from faculty members from non-AICTE institutes and industry people.

For online-payment, the bank account details are as follows:

**A/C Name:** - <to be provided>

**Bank Name:** - Central bank of India, SLIET

**Account No:** - <to be provided>

**IFSC Code:** - CBIN0283105

**IMPORTANT DATES**

Last date for registration : Sept 25, 2020

Notification of selection : Sept 28, 2020

**Address for correspondence**

**Coordinators:**

**Dr. Pratibha Tyagi, AsP (EIE)**

**Dr. Ashwani Aggarwal, AsP (EIE)**

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## **INSTITUTE**

Sant Longowal Institute of Engineering & Technology (SLIET), Deemed to be University, has been established and funded by MHRD, Government of India in 1991, to provide technical education in emerging areas of Engineering and Technology. The institute caters to the technical manpower requirements at various levels by adopting a concept of a modular system in imparting professional education with an emphasis on practical training in the industry. The study programs include various courses at certificate, diploma, B.E. M.Tech. and Ph.D. levels in different branches of engineering and technology. The institute has a sprawling area of 451 acres surrounded by lush green land.

## **DEPARTMENT OF EIE**

Electrical and Instrumentation Engineering department is poised to impart technical education related to the development of human resources, from the level of skilled workers to the engineering post-graduates. The courses being run by the department include:

- Integrated Certificate-Diploma Program DEE
- Integrated Certificate-Diploma Program DIN
- B.E. (Instrumentation and Control Engineering)
- B.E. (Electrical Engineering)
- M.Tech. (Instrumentation and Control Engineering)
- Ph.D. Programme

## **ABOUT THE PROGRAM**

The course aims at faculty member/research scholars of engineering institutions and polytechnic approved by AICTE, officials from industry and other Research and Development organizations.

The program will also inspire the faculty members and research scholars to generate new ideas in their research area.

## **BACKGROUND**

Objectives of the STTP “Future of Industrial Automation” has been getting a lot of attention nowadays. Industrial instrumentation and controls has always been a hotbed of new products — improved sensors, amplifiers, displays, recorders, control elements, valves, actuators and other gadgets and gizmos. The markets for each category are relatively small, specialized and fragmented, and it’s rare that any significant volume results directly from individual products. Today, automation growth occurs primarily in international markets where new factories and plants are being built. The objectives of this STTP are to provide the exposure to industry automation tools for better learning and training experience. It will help participants to update their knowledge and widen their horizon.

## **RESOURCE PERSONS**

Renowned experts and researchers from premier Institutions (IIT/NITs) and organizations (CSIO/ISRO) and industries will deliver lectures.

The STC is open to faculty members, research scholars, officials from industry and other Research and Development organizations.

The Soft copy of study material, training PPT's will be shared with all the participants.

## **SALIENT FEATURES**

- Issue of Certificates
- Panel Discussion
- Interactive course
- Free/Nominal course fee
- Availability of recorded Lectures by Experts