

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
HOD(EIE)**

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

Course Contents

- Computer buses in Industrial Automation
- Time-dependent control
- Symbolic representation of devices, standards
- Industry 4.0
- Smart Grid
- Digital Transformation in manufacturing Industries
- Programmable Logic Controllers
- Interfacing SCADA and HMI to PLC
- Role of Internet Of Things (IOTs) in Industrial Automation
- Artificial Intelligence in Industrial Automation
- Machine Vision for 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 LINK

https://docs.google.com/forms/d/e/1FAIpQLSeJVz6XxYGUOXV_AnAL1HqIhE5GEuPoBdoya8Vp1IiCPJVqEQ/viewform?usp=pp_url

No registration fee 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)

Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab-148106

Ph. No. 9417493389, 9530530190

E-mail.: pratstyagi@sliet.ac.in, ashwani.ist@sliet.ac.in

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, the campus of the institute extends a beautiful and well developed area with many topographically featured picturesque landscape, numerous buildings of various nature and stature and metal road network. The campus presents a spectacle of harmony and natural beauty.

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 gismos. 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