

## **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 modular system in imparting technical education with emphasis on practical training in industry. The study programs include various courses at certificate, diploma, B.E. M.Tech. and Ph.D. levels in various branches of engineering and technology.

## **DEPARTMENT OF EIE**

Electrical and Instrumentation Engineering department is poised to impart technical education related to the development of manpower, 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

## **DEPARTMENT OF ECE**

The aim of the ECE department is to provide a quality education to the youngsters so that they can contribute in the development of the

nation. The courses being run by the department include:

- Integrated Certificate-Diploma Program DEC
- B.E. (Electronics and Communication Engineering)
- M.Tech. (Electronics and Communication Engineering)
- Ph.D. Programme

## **LOCATION**

The Institute is situated at Longowal which is about 8 Km from Badbar, an important bus stop on Sangrur-Barnala Highway. The institute is connected by road with Sangrur (18Km), Barnala (25Km), Ludhiana (120Km), Chandigarh (150Km) & Delhi (250Km). The nearest railway stations are Sangrur (18Km), Sunam (16Km), Barnala (25 Km) & Dhuri (30Km).

## **WEATHER**

The month of January is a part of the winter season in this region of North India. The weather becomes pleasant, with temperature in the range 06-25° C.

## **ABOUT THE PROGRAM**

The aim of this five-day short term training (STTP) programme is to appraise the participants about the current state of industry automation using PLC and SCADA. This will provide hands on training on Industrial PLC. The program will also inspire the faculty members and research scholars to generate new ideas in the field of industrial automation. This five day (STTP) will provide an overview of such budding topics and suggest several future perspectives for industrial automation using PLC and SCADA. It will also help to identify

different challenges in the automation industry. The program will give an opportunity to interact with the experts from different industries and institutes. The participants will get an exposure to start research work in the field of automation using PLC and SCADA system.

## **TOPICS TO BE DISCUSSED**

- Introduction to Industrial Automation, Why We Need Automation
- Evolution in Industrial Automation
- Role of Sensors in Automation
- Introduction to PLC
- Hardware relay logic control
- Ladder Logic Programming for PLCs
- Bit logic operations, timers, counters and comparators
- Human machine Interface
- Introduction to SCADA system, Interfacing of SCADA with PLC
- Real time Industrial Automation
- Applications of the PLC in home automation
- Hands-on session on PLCs
- Introduction to Cloud based SCADA systems

The STTP is open to faculty members, research scholars, officials from industry and other Research and Development organizations. The faculty and personnel related to Instrumentation and Control engg, Electronics engg., Chemical engg., Mechanical engg., Electrical engg., etc. can be benefitted from the program.

**Registration Form**  
**TEQIP III Sponsored**

**SHORT TERM TRAINING PROGRAMME(STTP)**

**ON**

**PLC drives and Industrial Automation**

**(January 27-31, 2020)**

**Registration Form**

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Field of specialization:** \_\_\_\_\_

**Name of the Institute/Organization:** \_\_\_\_\_

**Address for correspondence:** \_\_\_\_\_

**E-mail:** \_\_\_\_\_

**Tel. /Mobile No.:** \_\_\_\_\_

**Academic Qualification:** \_\_\_\_\_

**Teaching/ Professional experience:** \_\_\_\_\_

**Accommodation required : YES/NO**

**Category : Academics /R&D Inst./ Govt. Org. /  
Industry/ Research Scholar**

(Kindly submit the proof of identity)

**Accommodation required: Yes/No** \_\_\_\_\_

**Details of Bank Draft (Regn. Fee): Rs.** \_\_\_\_\_

**No.** \_\_\_\_\_ **Date** \_\_\_\_\_

(In favor of "Director, SLIET" payable at Longowal)

**Arrival Date:** \_\_\_\_\_

**Departure Date:** \_\_\_\_\_

**Place:** \_\_\_\_\_

**Date:** \_\_\_\_\_ **Signature of Applicant**

**Signature and Seal of Forwarding Authority**

**NATIONAL ADVISORY COMMITTEE**

**Dr Bhim Singh**, Professor, Department of Electrical Engineering, IIT New Delhi.

**Dr Ratna Dahiya**, Professor, Department of Electrical Engineering, NIT Kurukshetra.

**Dr Ashwani Kumar**, Professor, Department of Electrical Engineering, NIT Kurukshetra.

**Dr A. K. Jain**, Professor, Department of Instrumentation and Control Engineering, NIT Jalandhar

**Dr Savina Bansal**, Professor, Department of Electronics and Communication Engineering, MRSPTU, Bathinda.

**REGISTRATION FEE**

Delegates from Industry/ Pvt. Org. : Rs. 2500/-

Delegates from Academics /R&D Inst./

Govt. organization/ Research Scholars: Rs.500/-

**There is no registration fee for participants from SLIET Longowal and NIT UK.**

Registration form along with registration fee is to be sent to Coordinator. Registration fee may be paid in the form of D.D. drawn in favor of "Director, SLIET" payable at Longowal.

**IMPORTANT DATES**

Last date for receipt of duly filled application form : December 30, 2019

Notification of Acceptance: January 10, 2020

**BOARDING & LODGING FOR EXTERNAL PARTICIPANTS**

The participants/ delegates may be provided with accommodation at the institute's guest house on payment basis at nominal charges. No TA/DA will be paid to the participants. Refreshment and working lunch will be provided to all the participants. For the participants from NIT UK boarding and lodging will be borne by SLIET out of TEQIP-III.

**ADDRESS FOR CORRESPONDENCE**

**Coordinators**

**Dr Manpreet Kaur , Dr AjayPal Singh and**

**Dr Raj Kumar Garg**

**Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur-148106 (Pb.)**

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**TEQIP III Sponsored**  
**SHORT TERM TRAINING PROGRAM**

**ON**

**PLC drives and Industrial Automation**

**(January 27-31, 2020)**



**ORGANIZED BY**

**Department of Electrical and Instrumentation Engineering and**

**Department of Electronics and Communication Engineering**

**Sant Longowal Institute of Engineering & Technology**

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

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

**Patron : Prof. S. K. Jain, Director**

**Chairman : Prof. A. S. Arora  
Dean (Academics)**

**Convener : Prof. Sanjay Marwaha  
: Prof. Anupama Marwaha**

**Coordinators : Dr. Manpreet Kaur  
: Dr. AjayPal Singh  
: Dr. Raj Kumar**