

**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 "PLC2020" 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 "PLC2020" payable at Longowal. The registration fee may be credited to the account no. 3786613068, IFSE- CBIN0283105.

**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.)

Phone: 9463863036, 9417106644, 9417395034

E-mail: [neja\\_mpk@sliet.ac.in](mailto:neja_mpk@sliet.ac.in), [ajaypal@sliet.ac.in](mailto:ajaypal@sliet.ac.in),

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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. Shailendra 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

## **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.

**Attendance sheet of STTP (PLC, Drives and Industrial Automation)**

**External Participants**

Date: 03-03-2020

Sr. No.	Name	Signature	
		morning	afternoon
1	Mr. Parminderjeet Singh A.P.	<i>[Signature]</i>	<i>[Signature]</i>
2	Dr. Jeba Shalin A.P.	<i>[Signature]</i>	<i>[Signature]</i>
3	Mr. Naveen Kumar A.P.	<i>[Signature]</i>	<i>[Signature]</i>
4	Ms Gagandeep Kaur Gill A.P.	<i>[Signature]</i>	<i>[Signature]</i>
5	Ms Arshdeep Kaur A.P.	<i>[Signature]</i>	<i>[Signature]</i>
6	Mr. Man Singh Kamboj A.P.	<i>[Signature]</i>	<i>[Signature]</i>
7	Mr. Ankit Jayant A.P.	<i>[Signature]</i>	<i>[Signature]</i>
8	Mr. Jaspreet Singh A.E.E	<i>[Signature]</i>	<i>[Signature]</i>
9	Dr. Manish Kumar Prof.	<i>[Signature]</i>	<i>[Signature]</i>

**Attendance sheet of STTP (PLC, Drives and Industrial Automation)**

**Internal Participants**

Date: 03-03-2020

Sr. No.	Name	Signature	
		morning	afternoon
1	Mr. Vipul Singhal A.P. ECE	<i>[Signature]</i>	<i>[Signature]</i>
2	Ms. Alka Singla A.P. ECE	<i>[Signature]</i>	<i>[Signature]</i>
3	Mr. Lalit Ahuja A.P. ME	<i>[Signature]</i>	<i>[Signature]</i>
4	Dr. Vivek Kumar A.P. ME	<i>[Signature]</i>	<i>[Signature]</i>
5	Mr. Asim Ali Khan AsP EIE	<i>[Signature]</i>	<i>[Signature]</i>
6	Mr. Anil singla AsP Mech.	<i>[Signature]</i>	<i>[Signature]</i>
7	Mr. Manminder Singh A.P. CS	<i>[Signature]</i>	<i>[Signature]</i>
8	Mr. Pankaj Kumar Das A.P. ECE	<i>[Signature]</i>	<i>[Signature]</i>
9	Dr. Pratibha Tyagi AsP EIE	<i>[Signature]</i>	<i>[Signature]</i>
10	Mr. Kuldip Singh A.P. ECE	<i>[Signature]</i>	<i>[Signature]</i>
11	Mr. Diljinder Singh AsP EIE	<i>[Signature]</i>	<i>[Signature]</i>
12	Mr. Vinay Kumar R.S.	<i>[Signature]</i>	<i>[Signature]</i>
13	Mr Bhawesh Prasad R.S.	<i>[Signature]</i>	<i>[Signature]</i>
14	Mr Rajat Kumar R.S.	<i>[Signature]</i>	<i>[Signature]</i>
15	Mr Bhaskar Pandey R.S.	<i>[Signature]</i>	<i>[Signature]</i>
16	Ms Ruchika Thukral R.S.	<i>[Signature]</i>	<i>[Signature]</i>
17	Mr. Gulsan R.S.	<i>[Signature]</i>	<i>[Signature]</i>
18	Ms. Rupam R.S.	<i>[Signature]</i>	<i>[Signature]</i>
19	Mr. Sudhir Kumar Sharma R.S.	<i>[Signature]</i>	<i>[Signature]</i>
20	Mr. Avinash Kumar R.S.	<i>[Signature]</i>	<i>[Signature]</i>
21	Ms. Raj devinder kaur sidhu R.S.	<i>[Signature]</i>	<i>[Signature]</i>
22	Mr. Jasvir Singh Kalsi R.S.	<i>[Signature]</i>	<i>[Signature]</i>
23	Mr. Hitesh yadav R.S.	<i>[Signature]</i>	<i>[Signature]</i>
24	Mr. Updesh verma R.S.	<i>[Signature]</i>	<i>[Signature]</i>
25	Mr. Paramjeet Singh Jamwal	<i>[Signature]</i>	<i>[Signature]</i>
26	Ms. Kanchan Pawani	<i>[Signature]</i>	<i>[Signature]</i>

Five days Online STTP on "Recent Trends in Instrumentation Engineering" from 7- 11 Sept 2020

EMAIL: sttpnituk@gmail.com

**Schedule of TEQIP-III sponsored STTP 7-11 Sept , 2020 (SLIET Longowal & NIT UK)**

**Special Notes:**

- 1 There is no registration fee for faculty from TEQIP-III approved Institutions.
- 2 Last date of registration: 05/09/2020. Confirmation of participation: 06/07/2020.
- 3 All participants may download the platform for joining FDP before sessions start to avoid any difficulty with given link:  
<https://global.gotomeeting.com/install/253227157>
- 4 Do not share link with anyone as this STTP is only for the selected participants.
- 5 E- Certificates will be issued on successful participation in all sessions.
- 6 Recording of the sessions would be made available after the STTP.
- 7 Any session may rescheduled (with prior intimation) or Expert may vary based on their availability.
- 8 The Questions may be asked to speaker at the end of session through chatbox only.
- 9 The Mics of the attendees have to be muted throughout the session.

	EVENT	TIME	Authority/Speaker
Day 1 - 07.09.2020	<b>Inaugural Session</b>	<a href="https://global.gotomeeting.com/join/345684461">https://global.gotomeeting.com/join/345684461</a>	
	Welcome address by STTP Convener	10:00 am -11:00 am	<b>Prof. Sanjay Marwaha</b> , HOD, EIE, SLIET Longowal
	Overview of STTP		<b>Dr. Raj Kumar Garg</b> , Coordinator STTP, SLIET Longowal
	Inaugural Address by Director, SLIET, Longowal		<b>Prof. Shailendra Jain</b> , Director SLIET Longowal
	Key Note Address by Director, NIT, Uttarakhand		<b>Prof. Shayam Lal Soni</b> , Director NIT Uttarakhand
	Vote of Thanks		<b>Dr. Mahiraj Singh Rawat</b> , HOD & Convener (STTP), NIT Uttarakhand
Process Automation and Control Systems ( PACS): New Directions	11.00 am -12:30 pm	<b>Prof. Surekha Bhaot</b> , BITS Pilani	
Recent Trends in Biomedical Engineering	12:30 pm-1:30 pm	<b>Prof. AS Arora</b> , SLIET Longowal	
Day 2 - 08.09.2020	<b>Link to Join the Session</b>	<a href="https://global.gotomeeting.com/join/172726661">https://global.gotomeeting.com/join/172726661</a>	
	PLC Basics and its Application in Small Hydro Electric Power Plants	10:00 am- 11:15 am	<b>Prof. Umesh C. Rathore</b> , HOD (EE), Govt Hydro Enggning college, Bandla, H.P
	Recent Trends in Automative Sensors and Instrumentations	11:30 am-1:00 pm	<b>Prof. Karabi Biswas</b> , IIT Kharagpur
	Optimization Techniques: State-of-the-art	2:30 pm - 4:00 pm	<b>Prof. J.S. Dhillon, SLIET Longowal</b>
Day 3 - 09.09.2020	<b>Link to Join the Session</b>	<a href="https://global.gotomeeting.com/join/923509685">https://global.gotomeeting.com/join/923509685</a>	
	Deep Learning and its applications in Process Automations	10:00 am -11:00 am	<b>Prof. Surita Maini</b> , SLIET Longowal
	Smart Sensors for Precision Agriculture	11:15 am-12:30 pm	<b>Dr. Avishek Adhikary</b> , IIT Bhilai
	Adding value to the Industry using Advanced Digital Soutions	12:30 pm- 1:30 pm	<b>Er. Deepak Goyal</b> , Manager ABB Singapore
	Microfluidics Multi-Dimensional Flow-Cytometry for Biomedical Applications)	2:30 pm- 4:00 pm	<b>Dr. Earu Banothe</b> , NIT Rourkela
Day 4 - 10.09.2020	<b>Link to Join the Session</b>	<a href="https://global.gotomeeting.com/join/588865805">https://global.gotomeeting.com/join/588865805</a>	
	Power Quality Measurements	10:00 am - 11:15 am	<b>Dr. RK Garg</b> , SLIET Longowal
	Industry 4.0 and Industrial Internet of Things (IoT)	11:30 am - 1:00 pm	<b>Er. Sunil Bansal</b> , SLIET Longowal
	Emerson Automation Solution Presence AND Digital Transformation in Power Plant? It's happening now!	2:30 pm - 4:00 pm	<b>Ms. Shubhi Goel</b> , Product Marketing Manager, Emerson Automation Solutions
Day 5 - 11.09.2020	<b>Link to Join the Session</b>	<a href="https://global.gotomeeting.com/join/939567981">https://global.gotomeeting.com/join/939567981</a>	
	Virtual Instrumentation	10:00 am- 11:15 am	<b>Dr. Sunil Kumar</b> , Assco. Prof. Thapar University
	Finite element analysis of Motors used in Electrical Vehicles	11:30 am -1:15 pm	<b>Prof. Sanjay Marwaha</b> , HOD, EIE, SLIET Longowal
	Valedictory Session	1:30 pm - 2:00 pm	<b>Mr. Sunil Bansal</b> , Coordinator STTP, SLIET Longowal
	Vote of Thanks		

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## **AICTE-QIP Sponsored**

**Six Days Online Short-Term Course (STC) on  
Computational Techniques in Image and Signal Processing  
(Sep 28 – Oct 3, 2020)**

jointly organized by  
**Department of Electronics & Communication Engineering  
&  
Department of Electrical & Instrumentation Engineering,  
SLIET Longowal**

### Program Schedule

<b>Sep 28, 2020</b>	
09:45 AM to 10:25 AM	<b>Inauguration</b>
10:30 AM to 12:00 PM	<b>Speaker: Dr. Ram Bilas Pachori</b> Professor, Department of Electrical Engineering, IIT Indore <b>Topic: Time-Frequency Analysis</b>
12:15 PM to 01:45 PM	<b>Speaker: Dr. Amar Pratap Singh</b> Professor, Department of Electronics & Communication Engg, SLIET, Longowal <b>Topic: Introduction to Swarm Intelligence</b>
<b>Sep 29, 2020</b>	
09:30 AM to 11:00 AM	<b>Speaker: Dr. Tapan Kumar Gandhi</b> Associate Professor, Department of Electrical Engineering, IIT Delhi <b>Topic: Computational Neuroscience</b>
11:15 AM to 12:45 PM	<b>Speaker: Dr. Puneet Gupta</b> Assistant Professor, Department of CSE, IIT Indore <b>Topic: Heart Rate Estimation Using Non-Contact Face Videos</b>
<b>Sep 30, 2020</b>	
09:30 AM to 11:00 AM	<b>Speaker: Dr. Partha Pratim Roy</b> Associate Professor, Department of CSE, IIT Roorkee <b>Topic: EEG acquisition and Its Applications</b>
11:15 AM to 12:45 PM	<b>Speaker: Dr. Surinder Singh</b> Professor, Department of Electronics & Communication Engg, SLIET, Longowal <b>Topic: Optical Signal Processing</b>
<b>Oct 1, 2020</b>	
09:30 AM to 11:00 AM	<b>Speaker: Dr. Hariharan Muthusamy</b> Associate Professor, Department of Electronics Engg, NIT Uttarakhand <b>Topic: Algorithms for Feature Selection Problems</b>
11:15 AM to 12:45 PM	<b>Speaker: Dr. Ajat Shatru Arora</b> Professor, Department of Electrical & Instrumentation Engineering, SLIET, Longowal <b>Topic: Role of Liveness Detection In Biometrics</b>
<b>Oct 2, 2020</b>	
09:30 AM to 11:00 AM	<b>Speaker: Dr. Amit M Joshi</b> Assistant Professor, Department of ECE, MNIT Jaipur <b>Topic: Real-Time Video Watermarking for Authentication</b>
11:15 AM to 12:45 PM	<b>Speaker: Dr. Sanjay Marwaha</b> Professor, Department of Electrical & Instrumentation Engineering, SLIET, Longowal <b>Topic: Computational Electromagnetics in Medical Application</b>

2:30 PM to 04:00 PM	<p><b>Speaker: Er. Vivek Harshey</b>  Assistant Professor, Department of ECE, SLIET, Longowal  <b>Topic: Deep Learning Techniques in Computer Vision and Image Processing</b></p>
<b>Oct 3, 2020</b>	
09:30 AM to 11:00 AM	<p><b>Speaker: Dr. Vikas Mittal</b>  Assistant Professor, Department of ECE, NIT Kurukshetra  <b>Topic: Applications to Remote Sensing</b></p>
11:15 AM to 12:45 PM	<p><b>Speaker: Er. Sunil K Bansal</b>  Assistant Professor, Department of EIE, SLIET, Longowal  <b>Topic: Application of IoT in Healthcare: For Better Tomorrow</b></p>
12:50 PM to 01:15 PM	<b>Feedback and Valedictory</b>

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112	STC0920211	Dixit Dutt Bohra	Faculty	ECE	MBM Engineering College Jnvu Jodhpur	9828209314
113	STC0920212	Navjot Kaur	Assistant Professor	CSE	Punjabi University Patiala	9988045667
114	STC0920213	Vinay Kumar	Lecturer	EEE	Mnnit Allahabad	8176862908
115	STC0920214	Sudheeksha Misra	Assistant Professor	EE	IT Gopeshwar Chamoli Uttarakhand	9410504709
116	STC0920215	Mohit Kumar	Assistant Professor	EE	BTKIT Dwarahat Uttarakhand	9897040012
117	STC0920216	K.Lenin	Professor	EEE	Prasad V Potluri Siddhartha Institute of Technology	9494040709
118	STC0920218	Subhrajyoti Deb	Assistant Professor	Civil Engg	ICFAI University Tripura	9402330765
119	STC0920219	Kanimozhi. T	Lecturer	Ece	Opju	9630849203
120	STC0920220	Muralidharan K	Assistant Professor	ECE	Coimbatore Institute of Technology Coimbatore	7402038900
121	STC0920221	Aditya Kumar	PG Student	EC	Harcourt Butler Technical University Kanpur	9118211793
122	STC0920222	Manoj B	Student	ECE	Rajarajeswari college of engineering	7619112381
123	STC0920223	Kushagra Beohar	B.Tech	ECE	Medi-caps University Indore	8962418064
124	STC0920224	Meenal Jain	B.Tech	ECE	MEDI-CAPS university	9131216519
125	STC0920225	Nitiraj Singh Rathore	B.Tech	ECE	Medi-Caps University	7440417091
126	STC0920226	Mohd Shams Farooqui	B.Tech	ECE	Medi-Caps University	8827378996
127	STC0920227	Nikhil Pawar	B.Tech	ECE	Medicaps University	8770741750
128	STC0920228	Raman Patel	B.Tech	ECE	Medicaps university indore	9131238860
129	STC0920229	Sonam Dolker	B.Tech	ECE	National institute of technology, Uttarakhand	7051412954
130	STC0920230	Harshit Singh	B.Tech	ECE	GNDEC	9914003888



SKB

Organised (Barasha Mali)

REGISTRATION FORM

IOT USING ARDUINO: TWO DAY WORKSHOP  
(15<sup>th</sup> to 16<sup>th</sup> February, 2020)

Name of the Participant: \_\_\_\_\_

Regn No. : \_\_\_\_\_

Department: \_\_\_\_\_

Year of Study: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Gender: \_\_\_\_\_

Area of Interest: \_\_\_\_\_

Have you worked with Arduino before: \_\_\_\_\_

Correspondence Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Date: \_\_\_\_\_

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

\_\_\_\_\_  
Signature of the participant

\_\_\_\_\_  
Recommended of HOD

IOT USING ARDUINO:

TWO DAYS WORKSHOP

15<sup>th</sup> to 16<sup>th</sup> February, 2020

Organised by

Sant Longowal Institute of Engineering and Technology

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



Funded by

Shastri Indo-Canadian Institute



Course Coordinator

**Barasha Mali**

Department of Electrical and Instrumentation Engineering  
**Sant Longowal Institute of Engineering and Technology**

Longowal, Distt. Sangrur – 148106

Website: [sliet.ac.in](http://sliet.ac.in)

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## ABOUT THE 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 has the new concept of flexible, modular and multi-point entry/exit system and aims to provide technical manpower requirements of all levels to the industries. At present the institute offers Integrated Certificate-Diploma, B.E, M.Tech, and Ph.D. in various disciplines of Engineering and Technology, Science and Management.

## SHASTRI INDO-CANADIAN INSTITUTE

The Shastri Indo-Canadian Institute is a binational organization that promotes understanding between India and Canada through academic activities and exchanges. The institute support the creation of binational links between academia, government, the business community and civil society organizations by funding research and hosting seminars. The Shastri Institute is funded by and partners closely with government bodies in both India and Canada. The Institute aims to achieve gender equality and reduce poverty by focusing programming on sustainable development and other United Nations Millennium Development Goals.

## ABOUT THE WORKSHOP

Internet of Things (IoT) is a technology that provides connectivity of a number of physical devices to everyone at any time and any place. This connection is achieved using internet and electronics. Arduino, an open-source electronics platform can be used to design IoT based projects. It is based on a physical programmable circuit board or microcontroller and an Integrated Development Environment (IDE) that runs on the computer. The process of working with microcontrollers is thus simplified and is easy-to-use for beginners yet flexible to use for advanced users. During the course the following will be covered:

Day 1: IoT Introduction, Components for designing IoT projects, Introduction to Arduino, Arduino Components and IDE, Hands-on Arduino Programming.

Day 2: Overview of IoT communication, Programming an Arduino IoT device, IoT based project weather monitoring system.

At the end there will be a competition among the participants.

## EXPECTED OUTCOMES

The participants will be able to understand how to use and interface Arduino to the cloud and apply it to design state-of-art instruments.

## IMPORTANT DATES

Last date of Registration: 12<sup>th</sup> Feb 2020

Confirmation of Participation: 14<sup>th</sup> Feb 2020

## REGISTRATION PROCEDURE

There is no registration fee for the participants. Scanned copy of the registration form and identity proof are required to be sent via email to [barashamali@sliet.ac.in](mailto:barashamali@sliet.ac.in) on or before 10th Feb 2020.

## ELIGIBILITY

The workshop is open to all Diploma, Degree and PG Students of SLIET Longowal.

## SPEAKERS

Prof. K G Srinavasa from National Institute of Technical Teachers Training and Research Chandigarh is the teaching faculty.

## ADVISORY COMMITTEE

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

Patron: Prof. A. S. Arora, Dean (Academics)

Chairperson: Prof. S Marwaha, HOD

SICI Member Representative: Prof. Surita Maini

Co-ordinator: Barasha Mali

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L'INSTITUT SHASTRI INDO-CANADIAN INSTITUTE

SHASTRI MEMBERSHIP DEVELOPMENT GRANT (SMDG) 2019-20 R1

Personal Details:	
First Name of Applicant: : Barasha Title : Ms Institution: Sant Longowal Institute of Engineering and Technology Longowal	Surname: Mali Gender: M/F <input type="checkbox"/> F
Applicant's Mailing Address: E-321, Department of Electrical and Instrumentation Engineering, SLIET Campus, Longowal, Samgrur-148106	Telephone: 8146103624 Mobile (if preferred): 8146103624 Fax: E-mail: <a href="mailto:barashamali@gmail.com">barashamali@gmail.com</a> , <a href="mailto:barashamali@sliet.ac.in">barashamali@sliet.ac.in</a>
Name of the Event: IoT using Arduino: Two Days Workshop Date: 15 <sup>th</sup> and 16 <sup>th</sup> February 2020 Venue: Sant Longowal Institute of Engineering and Technology, Longowal Number of participants: 40+10 Types of Participants (i.e. academia, students, communities, government, etc.): Students (UG, PG)	
a. Please describe briefly the activities conducted as part of this grant (500 words). <p>"IoT using Arduino: Two Days Workshop" was successfully organized on 15<sup>th</sup> and 16<sup>th</sup> Feb 2020 at Sant Longowal Institute of Engineering and Technology Longowal. The event began with the inauguration function where Director Shastri Indo Canadian Institute Dr. Prachi Kaul addressed the participants on Skype. Dignitaries, Prof. K G Srinivasa from NITTTR Chandigarh as the Guest of Honour, Prof. S. K. Jain, Director SLIET Longowal as the Chief Guest, Prof A.S. Arora , Dean Academics, SLIET Longowal, Head of Department , Prof S Marwaha, Faculties of SLIET Longowal and the participants were present at the event. Prof K G Srinivasa who was also the expert for the day, delivered lectures about IoT, why it is needed, limitations and its implementation using Arduino. At the end of the day he discussed how to design circuits using Tinkercad which is an open source software to simulate arduino projects.</p> <p>The second day participants were divided into 8 groups and arduino kits were issued to each group for hands on experience. Barasha Mali, Assistant Professor, SLIET Longowal and the co-ordinator of the event along with a group of six students helped the participants perform the different arduino based tasks during the session. Starting from the basic LED blink using arduino board, the session included different tasks to make the participants familiar with the arduino board. Tasks like sensing environmental parameters and designing IoT based weather monitoring system was added to fulfill the objectives of the workshop. The day ended with a competition among the participants among which one group was the winner. The valedictory session ended the day where participants were distributed certificates.</p>	

b. Was this event successful in achieving the intended objectives and how? (300 words)

The event had both lecture sessions and hands on session in which the participants

- i. became aware about the latest developments being carried out in this field in the whole world,
- ii. understood the layout of arduino circuits and how to conceptualize their ideas,
- iii. were able to interface arduino with the input sensors,
- iv. were able to display the sensor outputs to the computer and then transfer it to cloud to be used for IoT applications,
- v. became aware about how to inform the user about the sensor value from the input sensor and
- vi. design small projects.

At the end of the workshop the participants were asked to attempt two tasks for the competition among the groups. The participants were able to complete the tasks successfully which indicates that they understood how to use arduino to design small projects. Their future ideas can therefore be portrayed into product. The skills inculcated in them will blossom the creativity hidden under them thus fulfilling the objectives of the workshop.

While attending the course, the student also got to know about the various schemes/programs offered by Shastri Indo Canadian Institute. They were curious and motivated to participate in such schemes/programs offered by SICI.

c. Enlist the possibilities wherein the event could promote SICI in your organization? (100 words)

"IoT using Arduino: Two Days Workshop" is the first event of SLIET Longowal which is sponsored by the Shastri Indo Canadian Institut. This made the employees and students of SLIET Longowal aware of SICI as a funding organization. The poster and flyer display and acknowledge the fundings provided by SICI which was publicized via institute website, SLIET information app, facebook, twitter and whatsapp student groups. The presentation and certificates and awards of the participants displayed the SICI logo. Also during the inaugural session of the workshop, Dr. Prachi Kaul, Director SICI made us aware about the Institute and its various schemes/programmes while addressing the audience. The brief report of the event will also be published in the upcoming newsletter of SLIET Longowal which will aid in promoting SICI in the institute.

d. Please indicate future plans (if any) based on the experience of this event.

The awarding of the grant to organize the "IoT using Arduino: Two Days Workshop" inculcated confidence in the coordinator of the workshop to organize more similar events in future and also motivated to apply for the other schemes/programs offered by SICI. I as the coordinator of the workshop have a very satisfactory experience of the workshop. Also the participants enjoyed the event and showed their interest in future events which made me think about conducting similar workshops in future.

e. Please provide your feedback (if any) on the SMDG grant.

Shastri Membership Development Grant (SMDG) has given the opportunity to organize the two day event at SLIET Longowal which has benefitted the students of the institute justifying the name of the grant as membership development grant. Also I would like to thank SICI for considering me for the award and giving me the opportunity to conduct the two day event.

FINANCIAL REPORT

Description of items (expenses)	Amount (approved)	Amount (spent)
Supplies (Training Kit)	1000	1888
Certificates	1000	800
Refreshment	3000	3460
Travel	4500	3910
Human Resource Costs Full (Time,Part Time)	5000	5000
Miscellaneous	500	460
Living Expenses	NIL	NIL
Internet Expenses	NIL	NIL
Office Space	NIL	NIL
Communication Charges	NIL	NIL
Research	NIL	NIL
Electricity	NIL	NIL
Auditor Fee	NIL	NIL
Bank Fee	NIL	NIL
<b>Total Expenses</b>	<b>15000</b>	<b>15518</b>
<b>Funds received by the Shastri Institute</b>	<b>NIL</b>	<b>NIL</b>

**Registration Form**  
**TEQIP III Sponsored**  
**SHORT TERM TRAINING PROGRAMME(STTP)**

ON  
PLC drives and Industrial Automation  
(March 2-6, 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 "PLC2020" 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: Rs. 1000/-

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 "PLC2020" payable at Longowal. The registration fee may be credited to the account no. 3786613068, IFSC –CBIN0283105.

**IMPORTANT DATES**

Last date for receipt of duly filled application form  
: February 15, 2020

Notification of Acceptance: February 20, 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 Ajay Pal Singh and**

**Dr Raj Kumar**

Sant Longowal Institute of Engineering and

Technology, Longowal, Sangrur-148106 (Pb.)

Phone: 9463863036, 9417106644 ,9417395034

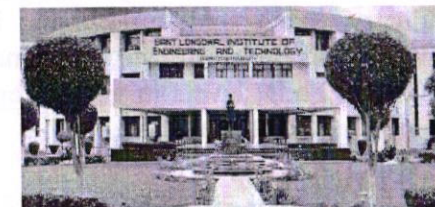
E-mail: [aneja\\_mpk@sliet.ac.in](mailto:aneja_mpk@sliet.ac.in) , [ajaypal@sliet.ac.in](mailto:ajaypal@sliet.ac.in),

[gargslit@yahoo.co.in](mailto:gargslit@yahoo.co.in)

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

ON

**PLC drives and Industrial Automation**  
(March 2-6, 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. Ajay Pal Singh  
: Dr. Raj Kumar

## **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.



**Attendance sheet of STTP (PLC, Drives and Industrial Automation)**

**External Participants**

Date: 03-03-2020

Sr. No.	Name	Signature	
		morning	afternoon
1	Mr. Parminderjeet Singh A.P.		
2	Dr. Jeba Shalin A.P.		
3	Mr. Naveen Kumar A.P.		
4	Ms Gagandeep Kaur Gill A.P.		
5	Ms Arshdeep Kaur A.P.		
6	Mr. Man Singh Kamboj A.P.		
7	Mr. Ankit Jayant A.P.		
8	Mr. Jaspreet Singh A.E.E		
9	Dr. Manish Kumar Prof.		

**Attendance sheet of STTP (PLC, Drives and Industrial Automation)**

**Internal Participants**

Date: 03-03-2020

Sr. No.	Name	Signature	
		morning	afternoon
1	Mr. Vipul Singhal A.P. ECE		
2	Ms. Alka Singla A.P. ECE		
3	Mr. Lalit Ahuja A.P. ME		
4	Dr. Vivek Kumar A.P ME		
5	Mr. Asim Ali Khan AsP EIE		
6	Mr. Anil singla AsP Mech.		
7	Mr. Manminder Singh A.P CS		
8	Mr. Pankaj Kumar Das A.P ECE		
9	Dr. Pratibha Tyagi AsP EIE		
10	Mr. Kuldip Singh A.P. ECE		
11	Mr. Diljinder Singh AsP EIE		
12	Mr. Vinay Kumar R.S.		
13	Mr Bhawesh Prasad R.S.	Bhawesh	Bhawesh
14	Mr Rajat Kumar R.S.	Rajat	Rajat
15	Mr Bhaskar Pandey R.S.	Bhaskar	Bhaskar
16	Ms Ruchika Thukral R.S.	Ruchika	Ruchika
17	Mr. Gulsan R.S.	Gulsan	Gulsan
18	Ms. Rupam R.S.	Rupam	Rupam
19	Mr. Sudhir Kumar Sharma R.S.	Sudhir	Sudhir
20	Mr. Avinash Kumar R.S.	Avinash	Avinash
21	Ms. Raj devinder kaur sidhu R.S.	Raj	Raj
22	Mr. Jasvir Singh Kalsi R.S.	Jasvir	Jasvir
23	Mr. Hitesh yadav R.S.	Hitesh	Hitesh
24	Mr. Updesh verma R.S.	Updesh	Updesh
25	Mr. Paramjeet Singh Jamwal	Paramjeet	Paramjeet
26	Ms. Kanchan Pawani	Kanchan	Kanchan

