

TEQIP-III

Sponsored
Online

Short Term Training Program

on

" Recent Trends in Instrumentation
Engineering"

(Under Twinning Program)

(07th – 11th Sep, 2020)



**ORGANIZED JOINTLY
BY:**

Dept. of Electrical Engineering

NIT, UTTARAKHAND

&

Dept. of Electrical & Instrumentation

Engineering,

SLIET, LONGOWAL

(CFTI under MHRD, Govt. of India)

<http://nituk.ac.in>

<http://www.sliet.ac.in>

About NIT, Uttarakhand

National Institute of Technology, Uttarakhand is located in the hilly terrain of Srinagar Garhwal, Pauri Uttarakhand. NIT, Uttarakhand established in 2009 under the Act of Parliament of India by the ministry of Human Resource Development and designated with the status of "Institute of National Importance. NIT, Uttarakhand is functional from two campuses i.e., parent campus at Srinagar (Garhwal) and satellite campus at MNIT, Jaipur.

About Department of EE, NIT, Uttarakhand

The Electrical Engineering Department was established during the inception of the Institute in 2010. Department has a fine blend of young and dynamic faculty, providing quality education. The major areas of faculty expertise include Power Systems, Power Electronics, and Control Systems.

The Department is currently offering B.Tech. in Electrical & Electronics Engineering and M. Tech program in Electrical Engineering with two specializations (Power System and Control, and Power Electronics & Drives). The department is also offering Ph. D. program for full time and part-time researchers. The department is dedicated to encourage independent and critical thinking in students and culture their potentials to pursue high quality of research.

About SLIET, Longowal

Sant Longowal Institute of Engineering & Technology is a Deemed-to-be-University, established by MHRD, Government of India, and controlled by SLIET Society. This Institute has a beautiful sprawling green area of

451 acres, with many topographically featured picturesque landscape and presents a spectacle of harmony and natural beauty. The study programs include various courses at Integrated Certificate and Diploma, Degree, M. Tech. & Ph. D. levels in 11 departments of Engineering and Science. It caters to the technical human resources requirements at various levels in Industries/Institutions by imparting professional education with an emphasis on industrial training and entrepreneurship development.

Department of EIE, SLIET, Longowal

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

About the STTP

Objective of the course is to provide knowledge of the latest state of art of technology in the field of Wireless/IoT/Cloud based industrial automation. Resource persons will be contributing their valuable insights on the above topics. Hands on training in subjects of Industrial IoT, PLC, DCS as well as process test rigs shall be provided.

Course Objectives

- To update technical skills in the field of fast-evolving and advancing engineering and technologies.
- To provide an opportunity to interact with academic and industry experts to enrich their future research work.
- Offer a platform to share and discuss the research ideas to stimulate scientific insight.
- To provide a platform to develop collaborative research in engineering and social applications.

Prospective Participants

The online STTP program is open for participants from Industry person, Faculty members from AICTE approved institute, Research Scholars Academia. The number of participants for the course is limited to fifty (50) and the selection of participants will be on first come first serve basis.

Mode of Conduction

The STTP program will be conducted on Google Meet platform. All the sessions will be held online. E-Certificates will be issued on successful participation in all sessions. Soft copy of study material, training PPT's will be shared with all the participants.

STTP Contents

The STTP is to emphasize on the need to create awareness among researchers, faculties and students about Advances in Instrumentation, Control, Automation, Signal Processing. Course contents are useful to faculties of Electrical, Electronics & Telecommunication, Instrumentation and Control, Bio-Medical Engineering.

The broad topics to be covered in the short-term training program are:

- Introduction and recent trends in Industrial process automation.
- Different types of control scheme (Adaptive, Fuzzy, Optimal control)
- PLC/SCADA/DCS/HMI
- Industrial communication Protocols.
- Industrial IoT for Process automation and cloud based architecture.
- State Feedback Controller Design
- Industrial Automation Simulation and software-based training on design of classical and advanced controllers for linear/non-linear processes.
- Miscellaneous topics related to this field.

Resource Persons

Experienced faculty members from the reputed educational institutions and industry experts shall deliver expert lectures.

Registration Fee

Last date of Registration: ~~September 01, 2020~~
September 05, 2020.

Registration will be restricted to the first 50 participants. The intimation to eligible participants shall be sent by ~~September 03, 2020.~~ **September 06, 2020.**

No registration fees for faculty, researcher scholars from TEQIP institutes.

Rs. 250/- from faculty, researcher scholars from non-TEQIP institutes, and Rs. 500 from industry people.

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

A/C Name: NIT Uttarakhand

Bank Name: - State Bank of India, Srinagar(Garhwal)

Account No: - 37843015175

IFSC Code: - SBIN0003181

Organizing Committee

Patron(s)

Prof. Shyam Lal Soni, Director, NIT Uttarakhand

Prof. Shailendra Jain, Director, SLIET, Longowal

Conveners

Dr. Mahiraj Singh Rawat, HOD (EE), NIT Uttarakhand

Prof. A. S. Arora, Dean (Academics), SLIET, Longowal

Prof. Sanjay Marwaha, HOD (EIE), SLIET, Longowal

Coordinators

Mr. Tripurari Nath Gupta, AP, NIT Uttarakhand

Mr. Himesh Kumar, Trainee Teacher, NIT Uttarakhand

Dr. R K Garg, Asso. Professor, SLIET, Longowal

Er. Sunil Bansal, AP, SLIET, Longowal

How to Register

The participants can register for the STC only through online mode. The link for online registration is as follows:

<https://forms.gle/kiipxk9tbHJgiBct8>

Address for Communication

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