Who Can Apply?

Faculty of

- Electrical Engineering (EE),
- Mechanical Engineering (ME),
- Electronics & Communication Engineering (ECE),
- Applied Electronics & Instrumentation Engineering (AEIE)
- Electrical and Electronics Engineering (EEE)
- Or Equivalent

How to Apply?

Applicants are requested to submit the Registration form using the link below.

https://forms.gle/YinSWgsnZRFgFZVs5

- ❖ Registration Fee: Rs 1000/- per participant
- ❖ Mode of Payment: Online/NEFT transaction
- ❖ Sessions link will be provided through email to the registered participants.
- ❖ Certificates will be issued to the participants on successful completion of the programme.

Bank details:
Name of the Bank: State Bank of India,
Salt Lake Branch
Bank Holder: NITTTR, Kolkata
Bank A/c No.: 00000034181726656
IFS Code: SBIN0001612

Registered Participants are requested to send by email the following information to academic@nitttrkol.ac.in for confirmation.

- **Name and Address of their Institute**
- **Contact No.:**
- **E-mail:**
- **Online Transaction ID:**

About the Coordinator(s):

1. **Dr. Subrata Chattopadhyay, Ph.D**
Professor, Electrical Engineering
Email Address: schattopadhyay @ nitttrkol.ac.in

Area of Interest:

- Innovation of noble techniques on measurement & control
- Sensor and Transducer development
- Process Automation, PLC and Distributed Control System
- Mechatronics & Robotics
- Electrical Machine & Power System

2. **Dr. Sagarika Pal, Ph. D**
Associate Professor, Electrical Engineering
Email Address: sagarikapal @ nitttrkol.ac.in

Area of Interest:

- Measurement & control
- Sensor and Transducer development
- Process Automation, PLC , DCS
- Mechatronics
- Robotics

Resource Persons (if any):

1. **Dr. Prasanta Sarkar, Ph. D**
Professor, Electrical Engineering
Email Address: psarkar @ nitttrkol.ac.in

Area of Interest:

- Control Systems
- System Identification
- Model Order Reduction and Intelligent Control

2. **Dr. Soumitra Kumar Mandal, Ph. D**
Professor, Electrical Engineering
Email Address: skmandal@nitttrkol.ac.in

Area of Interest:

- Microprocessors and Microcontrollers
- Electrical Machine and Drives
- Mechatronics
- MATLAB and its Application in Engineering

STTP

on

Industrial Automation & LABVIEW

Duration

10/01/2022 – 21/01/2022

National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata
Block-FC, Sector-III, Salt Lake City,
Kolkata: 700106

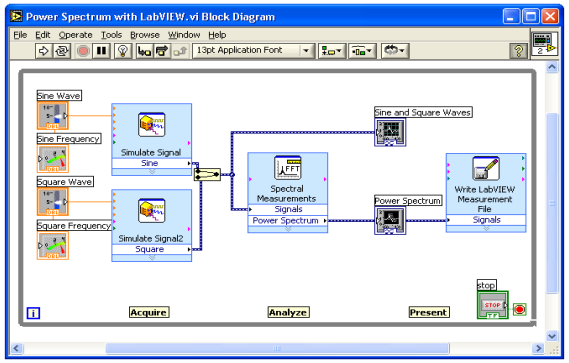
About the Institute:

NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH (NITTTR), KOLKATA was established in 1965 as Technical Teachers' Training Institute (TTTI), Calcutta under the Ministry of Education, Government of India and became an autonomous institution in 2013. As a premier institute in the country, NITTTR-K is primarily concerned with technical teachers training at various levels. By virtue of providing yeomen services related to technical teachers' training and technical education system of the country for the last fifty odd years, NITTTRK has first-hand experience to understand the need and traits of the technical teachers in India. In order to provide better services to North Eastern States and others, the institute has established two extension centers at Guwahati and Bhubaneswar. The institute is also offering successfully four M. Tech courses with state of the art facilities, qualified faculty, and staff members.

Laboratories in Electrical Engineering Department

About the Programme:

The National Instruments (NI) LabVIEW Platform is tightly integrated with industry-standard hardware components and software tools for building measurement and automation applications. It is widely recognized as one of the strongest and most flexible platforms available for developing application in the industrial measurement space. The present training programme aims at giving exposure on the modern control mechanisms adopted for automation in industrial environment and also an overview on fundamentals of LABVIEW, programming techniques and its application on industrial measurement, data acquisition and control. The participants will also have interacting sessions for LABVIEW programming through screen sharing in online mode.



Major Course Contents: The course will cover two key areas

1. Industrial Automation

- PID controller and its application
- Conventional and complex control techniques
- PLC programmes for automation
- DCS for Process automation
- SCADA systems for various control systems

2. LABVIEW

- Fundamentals of LABVIEW
- Programming Techniques using LABVIEW
- Implementation of LABVIEW Applications
- Data Acquisition technique using LABVIEW
- PID controller development using LABVIEW
- LABVIEW applications for industrial Automation

Programme Objectives:

- After attending the programme, participants will be able to:
- Explain Conventional and complex control techniques for industrial automation
- Develop PLC programmes for automation
- Explain SCADA systems for various process control systems
- Apply PLC and DCS for various control systems
- Explain fundamentals of LABVIEW
- Develop LABVIEW Programmes
- Develop Data acquisition system using LABVIEW
- Implement LABVIEW Applications
- Apply LABVIEW for industrial automation