

**GIDC Degree Engineering College  
Abrama, Navsari (Gujarat)**

(Affiliated with GTU & Approved by AICTE)



**A State Level  
Short Term Training Programme**

on

**“Applications of PLC & SCADA in  
Industrial Automation”**

15<sup>th</sup> to 19<sup>th</sup> July 2019



**Sponsored by**

Gujarat Council on Science & Technology,  
Department of Science and Technology,  
Govt. of Gujarat



**Approved by**  
GTU & ISTE



**Organized by**

Electrical Engineering Department  
GIDC Degree Engineering College  
Abrama, Navsari

**- : Address :-**

Block No.997, Village Abrama, Tal. Jalalpore  
Dist. Navsari- 396406.Gujarat, India.  
Phone : +91 02637 229040  
Email : gidcengcol@gmail.com

**Patron**

**Dr. N. D. Sharma**

Principal, GIDC Degree Engineering College

**Convenor**

**Dr. Rakesh J. Motiyani**

Head, Electrical Engineering Department  
GDEC, Abrama, Navsari

**Coordinator**

**Prof. Ankur P. Desai**

Email: apd.eed@gdec.in, Mo: 8511224911

**Prof. Rohit B. Damor**

Email: rbd.eed@gdec.in, Mo: 8758168374

**Prof. Bhavin S. Trivedi**

Email: bst.eed@gdec.in, Mo: 8141517187

**Co-coordinator**

**Mr. Kamlesh P. Sonwane**

Email: kamlesh100791@gmail.com, Mo: 9924965111

**Resource Person**

**Prof. Hitesh Patel**

(State Incharge of Siemens CoEs, Gujarat)

**Prof. Sharad Patel**

(Rtd. Professor)

**Mr. Vinay Chavda**

(Ex.-Head, Maintenance, TATA Steel)

**Prof. Mohan Patel**

(Assistant Professor, SCET, Surat)

**Dr. R. J. Motiyani**

(Associate Professor, GDEC, Navsari)

**Dr. S. S. Patel**

(Professor, GDEC, Navsari)

**Prof. Ankur Desai**

(Assistant Professor, GDEC, Navsari)

**Prof. Harshal Vashi**

(Assistant Professor, GDEC, Navsari)

**Registration Form**

**“Applications of PLC & SCADA in  
Industrial Automation”**

15<sup>th</sup> to 19<sup>th</sup> July 2019

Name: .....

Designation(Enrollment No in case of Student):  
.....

Department: .....

Organization: .....

Address .....

Mobile: .....

Email: .....

Qualification: .....

STTP Fee (per participant): .....

I will attend the STTP for the entire duration. I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the STTP. (Accommodation will not be provided)

**Date:**

**Place:**

**Signature of Applicant**

## About the Institute

GIDC Degree Engineering College, Village-Abrama, Taluka-Jalalpure, Dist- Navsari is the first PPP mode college established in 2012 by "GIDC EDUCATION SOCIETY, GANDHINAGAR", supported by Government of Gujarat. The college offers bachelor degree courses in Electrical, Mechanical, Civil, Automobile and Computer Engineering. The institute is approved by AICTE, New Delhi and affiliated to GTU, Ahmedabad. The vision of the institute is to grow as a premier education and research institute in the field of engineering with global view point and serving with world class standards conferring excellence to the engineering products through dedicated and competent engineers.

## About The Programme

Over the past three decades, Programmable Logic Controller (PLC) has spread throughout the automation industry, and has almost become a commodity. The PLC market segment has grown to several billions of dollars worldwide. Supervisory Control And Data Acquisition (SCADA) is a system operating with coded signals over the communication channels so as to provide control of remote equipment. The control system may be combined with a data acquisition system by adding the use of coded signals over communication channels to acquire information about the status of the remote equipment for display or for recording functions.

Automation in the industrial workplace provides the advantages of improving productivity and quality, reducing errors and waste, increasing safety, and adding flexibility to the manufacturing and process. Also, Industrial Automation yields increased reliability and profitability.

Hence, the objective of this STTP is to upgrade technical skills of students & to nurture advanced concepts in the era of PLC and SCADA to make them employable engineers. This training programme will also make students capable of developing solutions for the engineering problems in the society.

## Course Content

- Introduction to PLC architecture, Input-output Card, Scan Time, Analog and Digital Output, program Scan.
- Sensors, Actuators and their interfacing with PLC.
- Manually operated switches, Push buttons (NO, NC, momentary, maintained), limit switches, sensors, LED, solenoid operated actuators, alarm, motors Latching circuits, use of logic gates, implementation of timer and counter in industrial applications.
- Creating a new SCADA application, Creating Database of Tags, Creating & Editing graphic display with animations.
- Writing logic through script, Connectivity with the different hardware: Communication protocols, Communication with PLC, Communication with Data Acquisition System
- Hands-on practice of PLC & SCADA
- SCADA with IoT Applications
- Industrial Visit

## Who should attend?

- Diploma/Degree students of Electrical, Mechanical and Automobile Engineering
- Academicians
- Professionals from Industries

## Registration Fees

- Registration fees for the programme is as follow:
  - Rs.200/- for students/research scholar
  - Rs.1,000/- for academicians
  - Rs.1,000/- for participants from industry.
- Payment should be made in cash at Electrical Engineering Department, GDEC, Abrama, Navsari,
- Registration fees include stationery kit and tea & lunch for all five days. Maximum participant entry is limited to 50. Confirmation will be based on first-come, first-serve basis.

## How to apply?

- Duly filled in application form, as per the given format should reach to the coordinator on or before: **10/07/2019**
- Online Registration link - <https://forms.gle/bzwi98SFzu2Wr7z39>
- Registration form can be downloaded from [www.gdec.in](http://www.gdec.in)
- Last date for Online Registration: **08/07/2019**

## How to reach?

<https://www.google.com/maps/@20.8557355,72.9047021,15z>

