

Eligibility:

ITI, B.Sc. (Physics)

Diploma- Running/Completed

Degree – Running/Completed

(Electrical, EC, EEE, IC, Mechanical, Production, Automobile, Chemical, Mechatronics, BIO-IC)

Registration Details:

Last Date for Registration : 10/09/2022

Course Commencing From: 19/09/2022

Duration: 45 Hours (Offline Mode)

Venue:

C-203, C-Building, BAPUGKV Campus, Vasan

Registration Fees: Rs. 3990/-

Payment details & QR Code:

Punjab National Bank

IFSC Code: - PUNB0749500

Account No.: - 7495002100000048



Registration:

<https://forms.gle/2ZYvvPm111FrazsC9>



CHIEF PATRON

Shri Shankersinh L.Vaghela, Chairman

Shri Mahendrasinh S. Vaghela, Trustee

Shri Bharatsinh S. Vaghela, Trustee

CONVENER

Prof. Ravi Kumar K.

Dr. Kinjal Adhvaryu

COURSE COORDINATORS

Prof. Kinal Patel

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Prof. Sunil Patel

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GTU-CCE COORDINATOR

Prof. Mahesh Panchal

Assistant Professor, GTU-GSET

RESOURCE PERSON

Mr. Rohit Sher Mr. Vishal Vadher

Mr. Anup Kumar Mr. Pravin Kumar

Sofcon India Pvt Ltd



GUJARAT TECHNOLOGICAL UNIVERSITY CENTRE FOR CONTINUING EDUCATION (GTU-CCE) CERTIFIED



SHORT TERM TRAINING
COURSE

ON

“PLC-SCADA
PROGRAMMING”

Organized By



*Shankersinh Vaghela Bapu
Institute of Technology*

About Institute

Shankersinh Vaghela Bapu Institute of Technology (SVBIT) was established in the year 2009 with the approval of AICTE and affiliated to Gujarat technological University (GTU). SVBIT works with a view to provide opportunity to the aspirants, especially in Gujarat for their training in technical education and to provide consultancy and testing facilities to the industries / organizations located in this area and to join hands with Govt. of India in generation of technical man power. For the accomplishment of this noble task, the college has been making consistent efforts with the help of innovative and committed technical and non-technical staff members and the students for the growth and progress.

About Gujarat Technological University

Gujarat Technological University is a premier academic & research institution which has driven new ways of thinking since its 2007 founding, established by the Government of Gujarat vide Gujarat Act NO. 20 of 2007. Today, GTU is an intellectual destination that draws inspired scholars to its campus, keeping GTU at the nexus of ideas that challenge and change the world. GTU is a State University with 486 affiliated colleges in its fold operating across the state of Gujarat through its Five zones at Ahmedabad, Gandhinagar, Vallabh Vidyanagar, Rajkot and Surat. The University caters to the fields of Engineering, Architecture, Management, Pharmacy and Computer Science. The University has about 4,00,000, students enrolled in a large number of Diploma, Under Graduate, Post Graduate programs along with the robust Doctoral program.

Objective of GTU-CCE Course

- This course is to make the aspiring engineers acquainted with the conceptual as well as practical knowledge of the PLC programming & latest technologies being used in Industries.
- Understand automation technologies and identify advantages, limitations and applications of the same.
- Develop ability to recognize, articulate and solve industrial problems using automation technologies.

Outcomes of GTU-CCE Course

On completion of this course, the participants will be able to:

- Understanding of Industrial Automation
- Understand the basics of PLC programming
- What is PLC / SCADA?
- Working of PLC
- Understand the different parameters of PLC
- Design different process control applications through ladder logic
- Analyse & explain different functions of PLC
- PLC wiring
- Troubleshooting of PLC
- SCADA design for Plan process monitoring and controlling
- Communication between PLC – SCADA
- Build and experiment with PLC based SCADA systems for various industrial applications

Benefits to Participant

- 100% hands-on training.
- Certificate holder will have advantages to get placement by Sofcon India Pvt. Ltd.
- Certificate will be given by GTU after successful completion of course.

Course Contents

PLC

- Basic Instructions and Step Ladder Instructions
- Categories & Use of Application Instructions
- Loop Control / Transmission Comparison / Four Arithmetic Operation / PID
- Rotation & Displacement / Data Processing
- High Speed Processing / Display of External Settings / Serial I/O
- Floating Point Operation / Communications / Serial I/O
- Node red communication for IOT

SCADA

- Creating & editing elementary graphic display
- Copying and duplicating objects (devices, data tables, trends, etc.)
- Notifying of alarms/events.
- Import of data structures and tags
- Scripts for data simulation, trends, real-time trends, data tables, reports, actions, recipes.
- Web based SCADA using IBM cloud and UBidots.

Note:

1. Minimum passing marks 40% out of 100 in both external and Internal examination.
2. Grades are to be based on marks out of 100 as per:

Marks (Out of 100)	Grade
85-100	A
70-84	B
55-69	C
40-54	D

Contact Details

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