

EVENT REPORT

Expert Lecture under SSIP 2.0

Event Title: Expert Lecture on “Industrial Innovation in Automation: PLC & SCADA Technologies:”

Date: 28th January 2026

Time: 11:00 AM to 2:00 PM

Venue: Mechanical Smart Hall, Mechanical Engineering Department
B & B Institute of Technology, Vallabh Vidyanagar

Organized by: Electrical Engineering Department, BBIT under SSIP 2.0

INTRODUCTION

An Expert Lecture “Industrial Innovation in Automation: PLC & SCADA Technologies” By SOFFCON ENGINEERING PVT.LTD. under SSIP 2.0 was organized by the Electrical Engineering Department of B & B Institute of Technology, Vallabh Vidyanagar, for Diploma Second and final year Electrical Engineering students on 08/01/2026. The goal of the session was to introduce students to the growing influence of Artificial Intelligence (AI) tools in engineering innovation and entrepreneurship. The lecture aimed to inspire young students to explore modern valuable platform to bridge the gap between academic learning and real-world industrial practices in the rapidly evolving field of automation.

Expert Details:

1. Mr. Vishal Vadher – Manager Training

(Diploma & Degree in EC Engineering and Industrial Automation Engineer)

Sofcon India Pvt Ltd, Ahmedabad

Speaker has 10+ years of experience in Automation, Embedded and Information Technology field. He has thorough knowledge about various hardwares and softwares. He has delivered many expert sessions and has conducted in-campus vocational training in various colleges of Gujarat

2. Mr. Harvish Upadhyay – Sr. Industrial Automation Engineer

(Degree in Electrical Engineering and Industrial Automation Engineer)

Sofcon India Pvt Ltd, Ahmedabad

Speaker has 7+ years of experience in Automation Field and has thorough knowledge about various Automation hardwares and softwares. He has conducted many in-campus vocational training in various colleges across India.

Objectives

The main objectives of this expert lecture were:

- **To provide practical exposure** to modern industrial automation technologies, with special focus on **PLC and SCADA systems** used in real-time industrial applications.

- **To bridge the gap between academia and industry** by sharing industry practices, standards, and case studies in automation and control systems
- **To enhance students' understanding** of PLC architecture, ladder logic programming, and SCADA system configuration and operation.
- **To create awareness about Industry 4.0 concepts**, smart manufacturing, and the role of automation in digital transformation of industries.
- **To familiarize participants with industrial communication protocols** such as Modbus, Ethernet/IP, and Profibus used in automation systems.
- **To highlight safety, reliability, and efficiency aspects** of automation systems in industrial environments.
- **To guide students on career opportunities** in the field of industrial automation, control engineering, and smart factories.
- **To encourage innovation and skill development** aligned with SSIP and industry-oriented learning initiatives.
- **To motivate students** to apply theoretical knowledge in practical, real-world automation projects.

Participants

The program witnessed active participation from the following:

- Students: 129 Second and third year students from the Electrical Engg. Department attended the event.
- Faculty Members: 11 faculty members from the Electrical Department.
- Organizers: Members of the SSIP Cell, including faculty coordinators and student volunteers.

Program Schedule

Welcome Session (11:00 AM – 11:30 AM)

- **Shri A. A. Parmar Sir**, Head of the Electrical Engineering Department, to deliver the **welcome address** and formally inaugurate today's programme.
- **Dr. R. D. Patel Sir**, Head of the Mechanical Engineering Department and Coordinator of the BBIT SSIP Cell, to kindly address the gathering and enlighten us about the **SSIP initiative and its importance** for students.
- **Principal, Dr. K. M. Makwana Sir**, to motivate and guide our students with his inspiring and visionary words.
- **Shri J. B. Solanki Sir**, Coordinator of the seminar, to please come forward and brief us about **today's programme, objectives, and technical sessions**.
- Brief introduction of the expert

Expert Lecture (11.30 AM – 2:00 PM)

Mr. Vishal Vadher AND Mr. Harvish Upadhyay

- Expert sessions on **PLC architecture, ladder logic programming, and troubleshooting techniques** used in industrial automation.

- Detailed explanation of **SCADA system architecture**, including real-time monitoring, data acquisition, alarm management, and control functions.
 - Live discussion on **PLC–SCADA integration** and its importance in modern industrial processes.
 - Insight into **industrial communication protocols** such as Modbus, Ethernet/IP, and Profibus.
 - Practical examples and **real-world industrial case studies** shared by experts from **SOFFCON Engineering**.
 - Focus on **Industry 4.0 concepts**, smart manufacturing, and digital automation trends.
 - Emphasis on **industrial safety, reliability, and system efficiency** in automation environments.
 - Interaction session addressing **career opportunities and skill requirements** in the automation and control industry.
- The session was interactive, with several students asking questions and engaging in discussion.

Vote of Thanks (1:45 PM – 2:00 PM)

A formal vote of thanks was delivered by **Mrs. D.J.JAIN** coordinator, expressing gratitude to the expert, faculty, SSIP team, and students.

Outcomes

- **Enhanced practical knowledge** of PLC and SCADA systems, including their architecture, programming concepts, and real-time industrial applications.
- **Improved understanding of industrial automation systems** and their role in increasing productivity, efficiency, and safety in modern industries.
- **Exposure to real-world industrial practices** through expert interaction, case studies, and industry examples shared by SOFFCON Engineering professionals.
- **Increased awareness of Industry 4.0 and smart manufacturing concepts**, including digitalization and intelligent control systems.
- **Better understanding of industrial communication protocols** and their importance in PLC–SCADA integration..

Feedback

The expert seminar on **Industrial Innovation in Automation: PLC & SCADA Technologies** received excellent feedback from students and faculty. Participants appreciated the industry-oriented sessions, practical insights, and real-time case studies. The seminar enhanced technical knowledge, career awareness, and strengthened industry–institute interaction.

Conclusion

The expert seminar on **Industrial Innovation in Automation: PLC & SCADA Technologies** was highly informative and impactful. It successfully bridged academic

concepts with industrial practices, enhanced students' technical understanding, and strengthened industry-institute collaboration, motivating participants to pursue careers in industrial automation and smart manufacturing.

BROCHURES

Bhit BHAILALBHAI & BHIKHABHAI INSTITUTE OF TECHNOLOGY
Vallabh Vidyanagar

Sofcon India Pvt. Ltd. Sponsored by: **BBIT SSIP Cell**

Expert Seminar on
INDUSTRIAL INNOVATION IN AUTOMATION
PLC & SCADA TECHNOLOGIES

Organized in association with **Sofcon**

28 JANUARY 2026
10:30 AM - 1:00 PM

B & B INSTITUTE OF TECHNOLOGY,
Vallabh Vidyanagar

Technologies Covered:

- ◆ Programmable Logic Controllers (PLC) & Applications & Applications
- ◆ SCADA Systems for Industrial Automation

Mr. Vishal Vadher
Manager – Training

Mr. Harvish Upadhyay
Sr. Automation Engineer

For Diploma Electrical Students (GIA+SFI)
Certificate of Participation for All Participants!

Sponsored by: **Bhit** **BBIT SSIP Cell**

Coordinators: Solanki Jayrajsinh B, Devangi J Jain, Arvind Prajapati

EVENT PHOTO:



