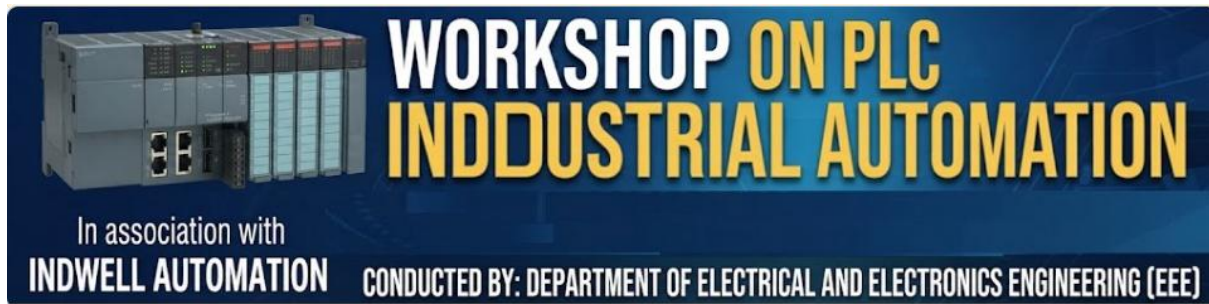




Workshop Brief Report: PLC and Industrial Automation

Event Overview

- **Title:** Five-Day Workshop on "PLC and Industrial Automation"
- **Dates:** 15th September 2026 to 19th September 2026
- **Organized By:** Department of Electrical and Electronics Engineering (EEE), Lakireddy Bali Reddy College of Engineering (Autonomous), Mylavaram
- **In Association With:** INDWELL AUTOMATION & IEEE Student Branch of LBRCE
- **Target Audience:** III Year Students

Program Summary

The Department of Electrical and Electronics Engineering successfully conducted an intensive five-day technical workshop focusing on advanced industrial automation. The program aimed to bridge the gap between academic learning and industry standards by offering hands-on exposure to Programmable Logic Controllers (PLCs), Human-Machine Interfaces (HMIs), Supervisory Control and Data Acquisition (SCADA), AC drives, and real-time wiring applications.

Resource Person & Leadership

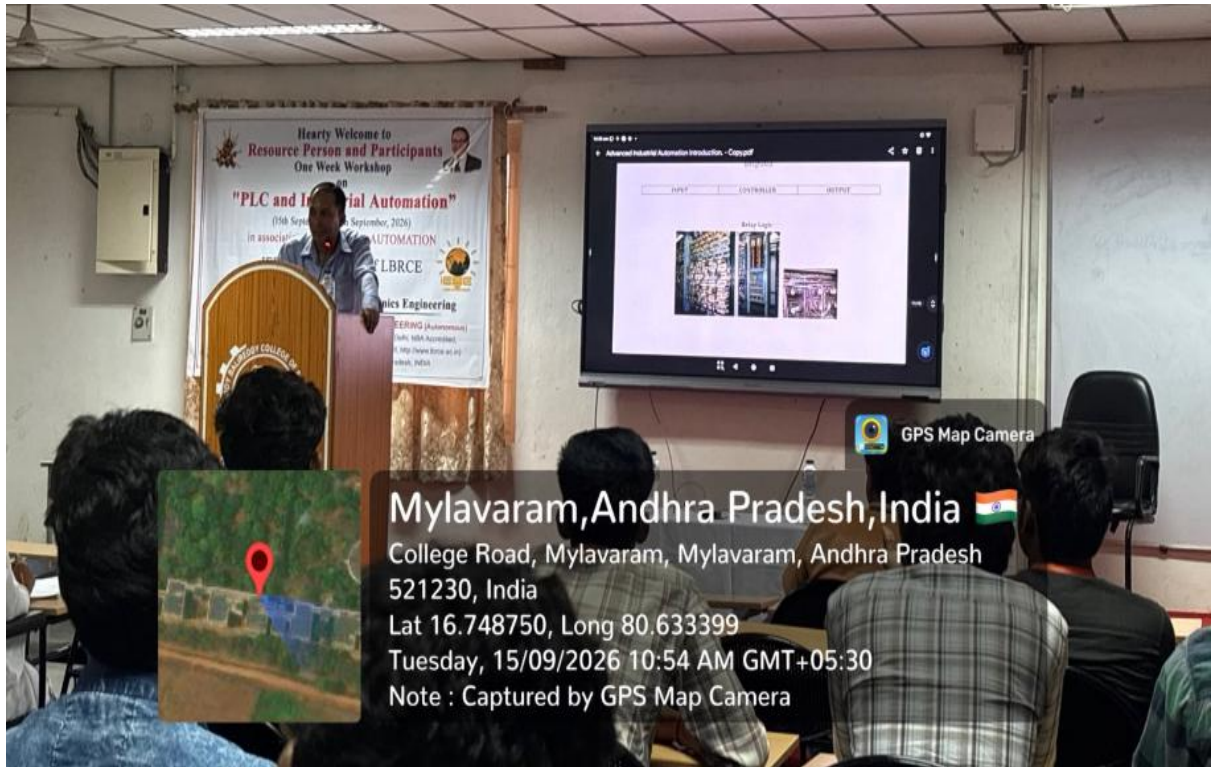
- **Resource Person:** Himanshu Kumar, Director, INDWELL Automation (bringing 19 years of extensive expertise in industrial automation training and project development).
- **Key Dignitaries & Coordinators:**
 - Principal: Dr. K. Apparao
 - Convener & HOD (EEE): Dr. P. Shoba Rani
 - Workshop Coordinators: Mr. R. Anjaneyulu Naik, Associate Professor, and Mrs. G. Tabitha, Senior Assistant Professor.

Key Technical Outcomes & Training Modules

- **Day 1:** Introduction to automation, microcontrollers vs. PLCs, ladder diagram programming (NO, NC, Coil), and Codesys simulation.
- **Day 2:** Advanced timer/counter programming, pulse instructions, and ladder simulations.
- **Day 3:** Digital I/O wiring concepts (SINK/SOURCE), Mitsubishi PLC hardware/software, and GX Developer programming.

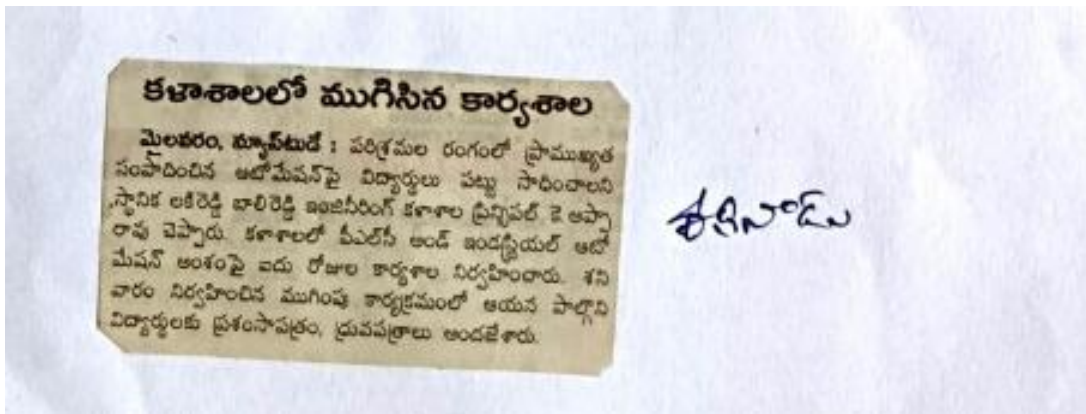
- **Day 4:** HMI screen development, analog data scaling, password configuration, and AC drive parameter controls.
- **Day 5:** SCADA screen development, tag configuration, ADC/DAC analog system integration, and complete industrial application projects.

Event Photo Gallery





Media Coverage



20/9/26



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🕒 Conclusion & Acknowledgement

The workshop concluded with a valedictory function acknowledging the active participation and discipline of the enrolled III-year students. The event successfully instilled practical technical skills and inspired students to pursue future innovations aligned with industrial automation standards.

*****END*****