

### CORE TRAINING ON PLC AND HMI PROGRAMMING

Event No	MI001
Organizing Department	Mechatronics Engineering
Associate Dept.   NSC	Mechatronics Engineering
Date	24/02/2024
Time	09:00 AM to 04:30 PM
Event Type	VAC / Training Program
Event Level	Dept. Level
Venue	Industrial Sensing, Control and Automation Laboratory
Total Participants	70
Faculty - Internal	2
Students - Internal	68

#### Related SDG



#### Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Parthiban	Application Engineer	ECI Systems Pvt Ltd	parthiban@ecisystems.com	xxxxxxxxxx

#### Involved Staffs

Sl	Name	Role
1	Balaji Arunachalam	Co-convenor
2	Kiruba Shankar R	Convenor

#### Outcome

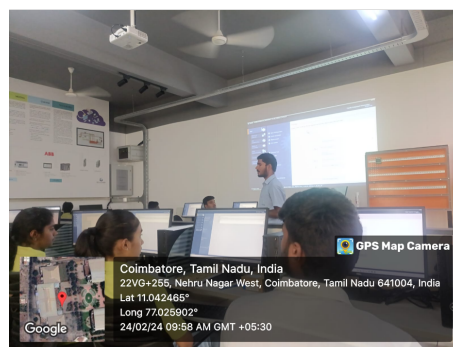
**Practical Skills Development:** Through hands-on exercises, attendees developed proficiency in PLC programming and HMI configuration, enabling them to tackle real-world automation challenges. **Improved Troubleshooting Abilities:** The training equipped participants with troubleshooting techniques to diagnose and resolve issues in PLC and HMI systems effectively. **Enhanced Productivity:** Armed with new skills and knowledge, participants are better equipped to contribute to increased productivity and efficiency in industrial settings through optimized control and monitoring processes. **Networking Opportunities:** The event provided a platform for networking and knowledge sharing among participants, fostering collaboration and idea exchange within the industry.

#### Event Summary

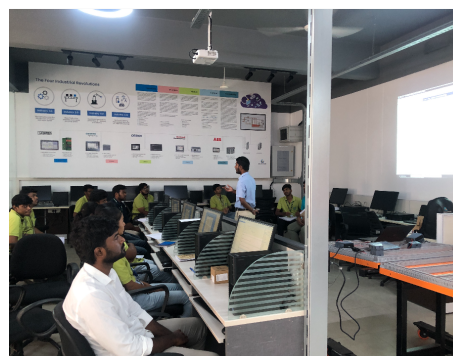
The Core Training on Programmable Logic Controller (PLC) and Human-Machine Interface (HMI) was designed to equip participants with fundamental knowledge and practical skills in industrial automation. Through hands-on sessions and theoretical modules, attendees gained proficiency in PLC programming, HMI configuration, and integration for efficient control and monitoring of industrial processes. Participants expressed high satisfaction with the training program, highlighting its practical relevance and the effectiveness of hands-on learning approaches. They appreciated the depth of knowledge provided by the instructors and found the interactive sessions engaging and informative. Many attendees indicated that they felt more confident in applying PLC and HMI concepts in their respective professional roles following the training. Given the success of this Core Training on PLC and HMI, future iterations of the program may include advanced topics such as PLC networking, advanced HMI design, and integration with other industrial automation systems. Additionally, customized training modules tailored to specific industries or applications could be developed to address the unique needs of different sectors. The Core Training on PLC and HMI was a resounding success, empowering participants with essential skills and knowledge to excel in the field of industrial automation. By bridging the gap between theory and practice, the event contributed to the professional development of attendees and reinforced their ability to drive innovation and efficiency in industrial processes.



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