



Learn Beyond

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

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MI001

NBA Accredited
(CSE, ECE, EEE,
MECH, CIVIL)

CORE TRAINING ON PLC, HMI AND SCADA

Event No	MI001
Organizing Department	Mechatronics Engineering
Associate Dept. NSC	Mechatronics Engineering
Date	02/03/2024
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	67
Faculty - Internal	2
Students - Internal	65

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	Kiruba Shankar R	Convenor
2	Balaji Arunachalam	Co-convenor

Outcome

Comprehensive Understanding: Participants gained a thorough understanding of PLC, HMI, and SCADA technologies, covering both theoretical concepts and practical applications. **Hands-on Experience:** Through interactive exercises and simulations, attendees acquired practical skills in PLC programming, HMI configuration, and SCADA system development, ensuring they are well-prepared to tackle real-world automation challenges. **Effective Integration:** The training emphasized the seamless integration and communication between PLCs, HMIs, and SCADA systems, enabling participants to design cohesive automation solutions for diverse industrial environments. **Enhanced Problem-Solving Skills:** Participants developed strong troubleshooting and diagnostic abilities, equipped to identify and resolve issues in PLC, HMI, and SCADA systems efficiently. **Application in Real-World Scenarios:** The event featured case studies and practical examples, allowing participants to apply their newly acquired knowledge to real-world automation projects, enhancing their ability to drive innovation and efficiency in industrial settings.

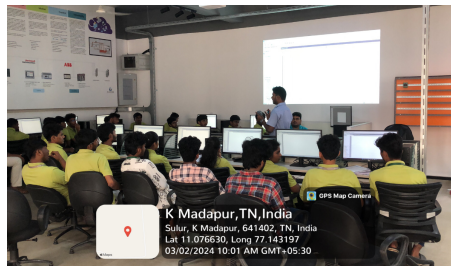
Event Summary

The Core Training on Programmable Logic Controller (PLC), Human-Machine Interface (HMI), and Supervisory Control and Data Acquisition (SCADA) systems was meticulously crafted to offer participants a comprehensive understanding of industrial automation technologies. Combining theoretical insights with extensive hands-on experience, the training aimed to equip attendees with the skills necessary to design, implement, and troubleshoot complex automation solutions. Feedback from participants was overwhelmingly positive, with many highlighting the practical nature of the training and the relevance of the content to their professional roles. Attendees appreciated the opportunity to engage in hands-on exercises, which reinforced their understanding of key concepts and boosted their confidence in applying PLC, HMI, and SCADA technologies in their respective industries. The interactive sessions and knowledgeable instructors were also cited as key strengths of the training program. Given the success of this Core Training on PLC, HMI, and SCADA, future iterations could explore more advanced topics such as industrial cybersecurity, advanced SCADA programming, and integration with IoT technologies. Additionally, specialized modules tailored to specific industries or applications, such as manufacturing, energy, or transportation, could be developed to address the unique challenges and requirements of different sectors. The Core Training on PLC, HMI, and SCADA provided participants with a solid foundation in industrial automation technologies, coupled with valuable hands-on experience. By combining

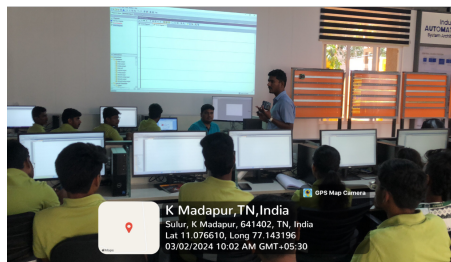
theoretical knowledge with practical skills development, the event equipped attendees with the tools and confidence needed to excel in the field of automation and drive innovation in their respective industries.



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