NEW HORIZON COLLEGE OF ENGINEERING

CO-CURRICULAR CLUB

GREEN ENERGY CLUB

"EMPOWERING CONTROL: NAVIGATING THE FUTURE WITH HMI AND SCADA EXCELLENCE"

Venue: Schneider Electric Lab, New Horizon College of Engineering.
Date: 8th February 2024
Time: 10AM Onwards

Faculty Co-ordinators: Vinod Kumar S, Assistant Professor, Department of EEE.

Student Coordinators:

Srinivas Abhinay Gandla – 1NH21EE112 – 5/B – VICE PRESIDENT

Vaishnavi D – 1NH21EE123 – 5/B – TREASURER

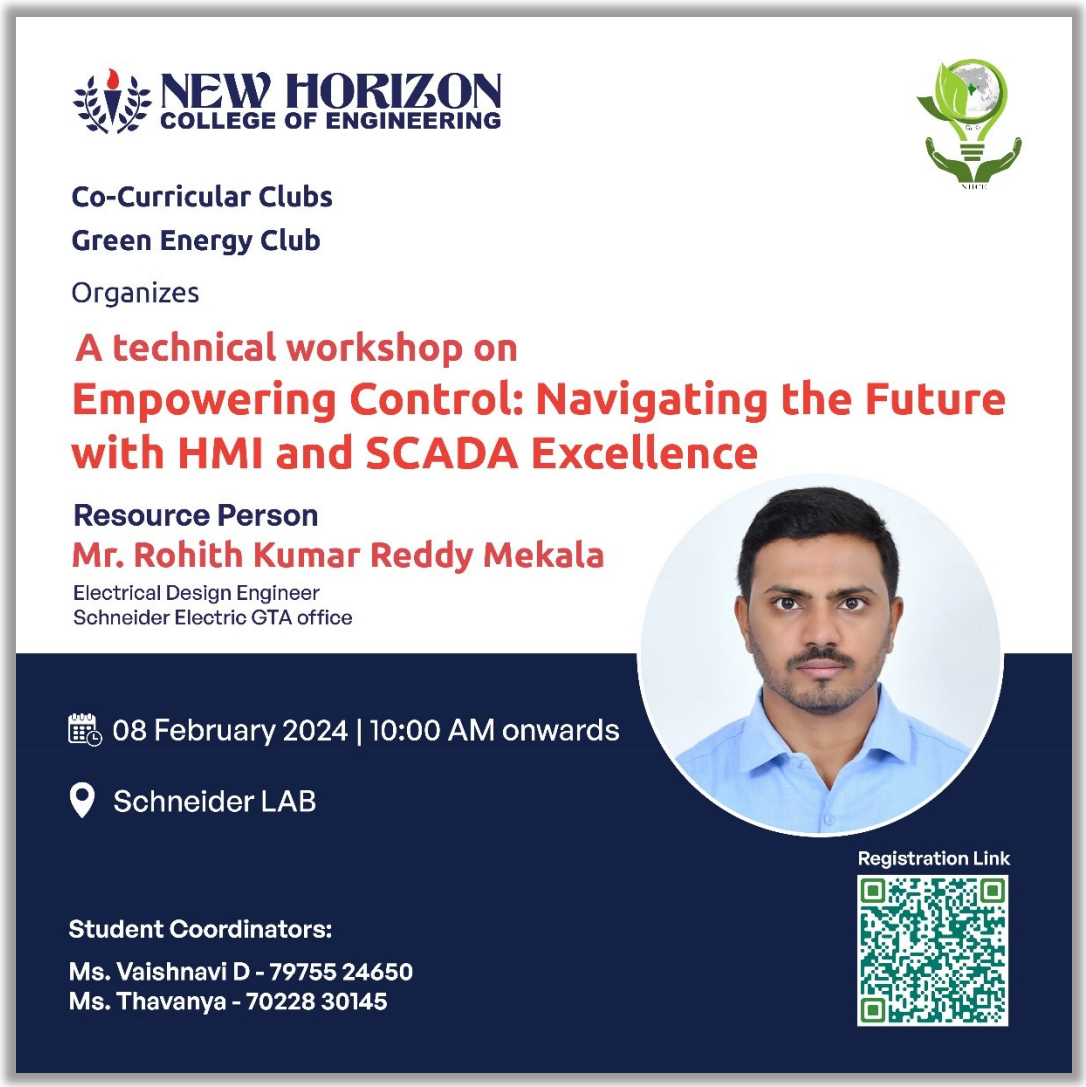
Thavanya Maria Singh – 1NH22EE119 – 3/B – MEMBER

Total Number of Internal Participants: 33

Total Number of External Participants: 0

Event Poster weblink: https://www.instagram.com/p/C3A7iy4SJCi/?igsh=bHNxMHJxdXVscWU0

Targeted Audience: Students from Circuit Branches



Speaker's Introduction

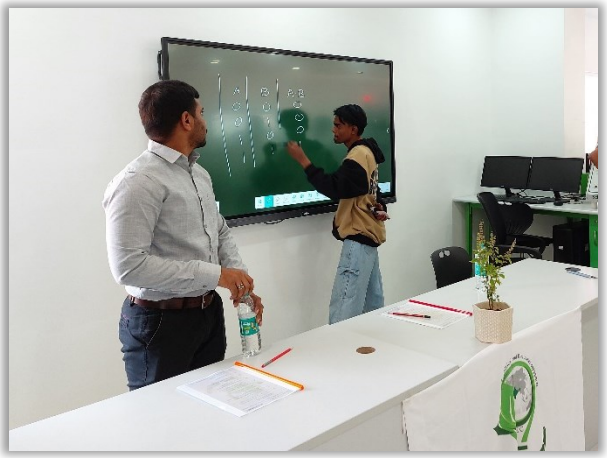
Mekala Rohith Kumar Reddy, an Electrical Design Engineer based in Anantapur, Andhra Pradesh. He has completed his graduation from New Horizon College of Engineering in 2023. His technical toolkit includes C, Python, LabVIEW, and Simulation, coupled with outstanding soft skills. In project highlights, he integrated LabVIEW, Arduino, and a dynamic GUI for real-time motor control and engineered 'Quad Bike for Physically Challenged'. He has published papers in IEEE conferences, holds two patents, and received recognition from the Karnataka State Council of Science and Technology. With an internship at Capgemini, Bengaluru, and currently works at Schneider Electric, Bengaluru, Rohith navigates advanced digital engineering and electrical design. In essence, Mekala Rohith Kumar Reddy is an accomplished Electrical Design Engineer, a problem solver, and a trailblazer in the engineering landscape.

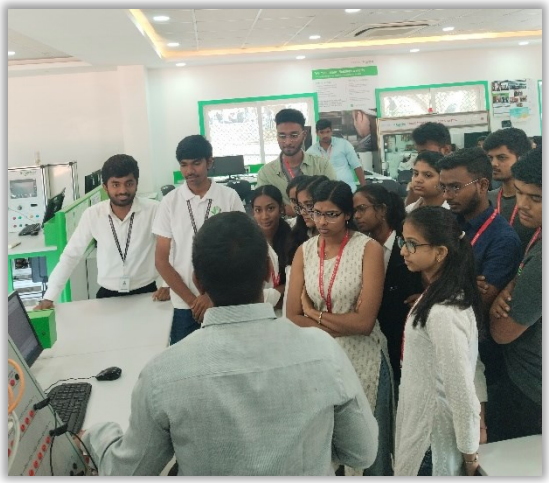
Workshop's Objective

A technical workshop based on HMI and SCADA is a training session that aims to teach the participants the fundamentals and applications of human-machine interface (HMI) and supervisory control and data acquisition (SCADA) systems in industrial automation. HMI and SCADA are two related but distinct concepts that enable human operators to interact with, monitor, and control machines and processes remotely.

HMI and SCADA solutions allow engineers to precisely monitor, control, and visualize every aspect of their operations in a centralized manner. With a quick glance, operators know what's important and the right actions to drive increased efficiency and reduced costs. HMI/SCADA provides faster response for operators and faster development for engineers.

Hands On Session





Conclusion

The workshop was indeed knowledgeable and motivating. We learned about the basics of HMI. The speaker also guided us by giving us key points for choosing our project, how projects play a important role in placement and preparations that are required to crack any interview.