

## ISTE X INSTITUTION'S INNOVATION COUNCIL X GREEN ENERGY CLUB



**Venue:** Electrical Labs

**Date:** 28/03/25

**Time:** 11:00 AM – 1:00 PM

**Organized by:** Green Energy Club – New Horizon College of Engineering

**Collaborators:** ISTE, IIC

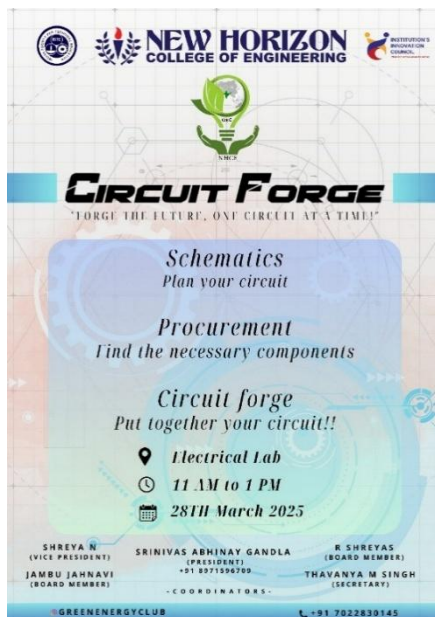
**Faculty Coordinators:**

Mr. Vinod Kumar S

Senior Assistant Professor

Total Number of Internal Participants: 25

Targeted Audience: Students from EEE, ECE, and MEE Departments



### **Description of the Event:**

The **Green Energy Club**, in collaboration with the **Indian Society for Technical Education (ISTE) Student Chapter** and the **Institution's Innovation Council (IIC)** at **New Horizon College of Engineering**, successfully organized a hands-on workshop titled "*Circuit Forge*" on **28<sup>th</sup> March 2025** in the **Electrical Lab**. This interactive session provided students with practical exposure to **circuit design, component selection, and assembly**, reinforcing their theoretical knowledge with real-world applications.

### **Event Structure:**

The competition was conducted in two rounds, each designed to test different aspects of technical and analytical thinking.

- **Round I – Fuzzy Logical Reasoning:**

This round tested participants' ability to deal with uncertainty and approximate reasoning, concepts that play a crucial role in AI, Automation, and Control Systems. The participants solved logic-based puzzles, real-world problem statements, and conceptual questions that challenged their critical thinking and decision-making skills.

- **Round II – Divide and Conquer:**

Shortlisted participants advanced to the final round, where they applied the divide-and-conquer approach to break down complex circuit problems into manageable tasks. The teams were given circuit-related challenges that required strategy, troubleshooting skills, and technical expertise to build or analyze circuits under a time constraint. The problem-solving approach of each team was evaluated based on accuracy, efficiency, and teamwork.

### **Participant Engagement and Learning Outcomes:**

The event saw an enthusiastic turnout of students from various Engineering disciplines.

Participants:

- ✓ Developed logical and analytical thinking through real-time challenges.
- ✓ Strengthened their circuit analysis and problem-solving skills.
- ✓ Gained hands-on exposure to electrical and electronic system troubleshooting.
- ✓ Worked collaboratively, improving communication and teamwork in a technical setting.

The structured format ensured that students not only competed but also learned from the process, gaining insights into strategic problem-solving methods applicable in Engineering and the Industry.

### **Organizing Team and Acknowledgments:**

The event was successfully coordinated by

- **THE GREEN ENERGY CLUB**

The dedicated efforts of the Green Energy Club, along with the support of ISTE and IIC, ensured the smooth execution of the event. The active participation and enthusiasm of students contributed significantly to the event's success.

## Conclusion:

“*Circuit Forge*” provided an engaging platform for students to apply theoretical knowledge in a practical and competitive environment. The logical reasoning and circuit-building challenges encouraged them to think critically, collaborate effectively, and innovate solutions. The Green Energy Club, in association with ISTE and IIC, looks forward to organizing more such events that promote Technical Excellence, Innovation, and problem-solving in engineering.

## PICTURES



