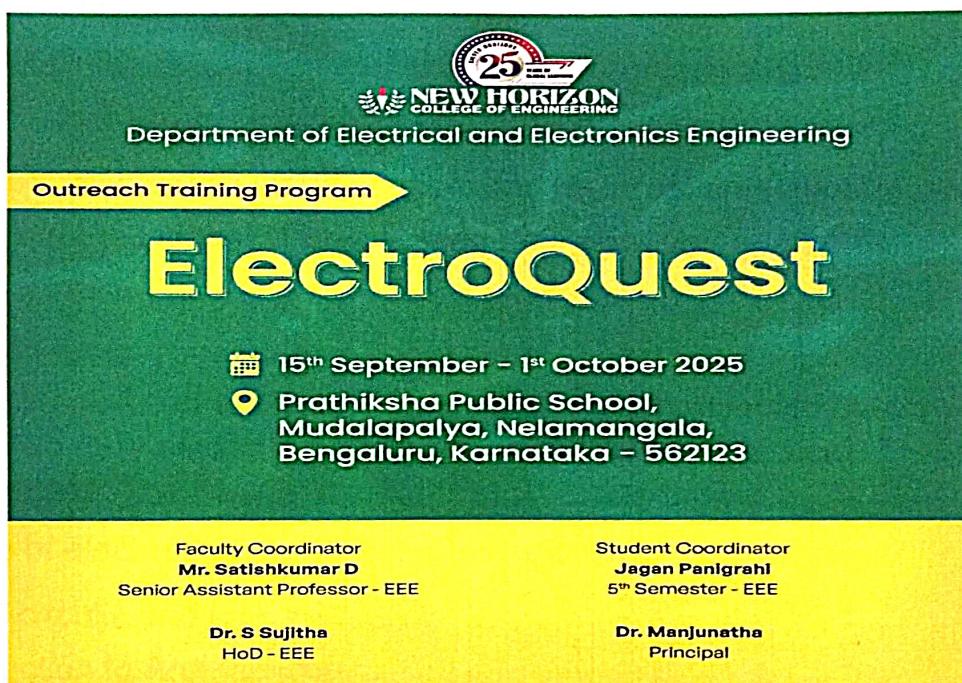


## ElectroQuest Outreach Training Program Report

### Program Title

ElectroQuest – Outreach Training Program on Electronics and Embedded Systems



### Organizing Department

Department of Electrical and  
Electronics Engineering New Horizon  
College of Engineering

### Program Duration

15th September 2025 to 1st October 2025 (15 Days Outreach Training Program)

### Target Group

School Students

### Number of Participants

50 Students

## **Introduction**

The Department of Electrical and Electronics Engineering, New Horizon College of Engineering, successfully organized an outreach training program titled **ElectroQuest** for school students. The program was designed to introduce young learners to the fundamentals of electronics and embedded systems through interactive lectures and hands-on practical sessions. The initiative aimed to spark curiosity, build foundational technical knowledge, and motivate students to pursue engineering and technology-related careers.

## **Objectives of the Program**

- To introduce basic concepts of electronics and electrical engineering to school students.
- To provide hands-on exposure to electronic components and circuit building.
- To familiarize students with Arduino Uno and basic programming concepts.
- To create awareness about sensors and their real-time applications.
- To encourage interest in engineering education and innovation.

## **Program Details**

The ElectroQuest Outreach Training Program was conducted over a period of 15 days, with daily sessions that combined theory and practical demonstrations. The training covered the following topics:

- Basics of electronics and electrical components
- Digital circuits and logic concepts
- Introduction to Arduino Uno
- Basics of Arduino programming
- Introduction to sensors and actuators
- Real-time applications of embedded systems

Students actively participated in circuit assembly, coding exercises, and live demonstrations. The hands-on approach helped them understand concepts clearly and improved their problem-solving and analytical skills.

## **Program Coordination and Support**

- Student Coordinator: Jagan Panigrahi, V Semester, EEE
- Faculty Support: Dr. Satishkumar D, Senior Assistant Professor, EEE
- Head of the Department (EEE): Dr. Sujitha S
- Principal: Dr. Manjunatha, New Horizon College of Engineering

### **Program Highlights**

- Active participation of 50 school students throughout the program
- Interactive teaching methodology with practical demonstrations
- Hands-on experience with Arduino and sensors
- Improved understanding of electronics fundamentals among students
- Positive feedback received from participants and school authorities

### **Outcomes of the Program**

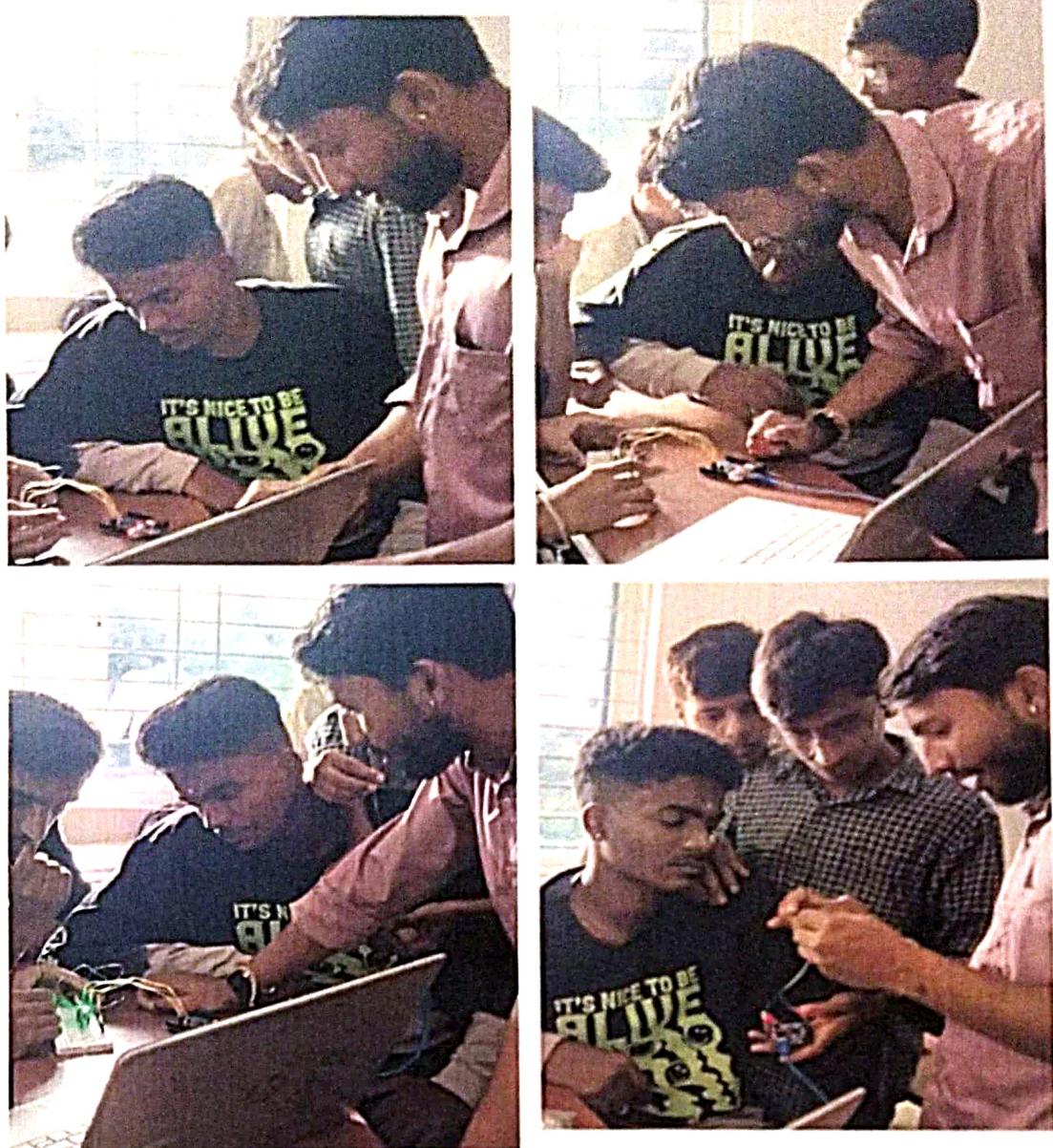
- Enhanced awareness of electronics and embedded systems among school students
- Development of basic technical and logical thinking skills
- Increased interest in engineering and technology-based learning
- Strengthened community engagement through educational outreach

### **Conclusion**

The ElectroQuest Outreach Training Program was successfully conducted and achieved its intended objectives. The program created a strong foundation in electronics for the participating students and inspired them to explore engineering concepts further. This initiative reflects the commitment of New Horizon College of Engineering in promoting technical education and community outreach.

### **Acknowledgement**

The organizing team sincerely thanks the management of New Horizon College of Engineering, the Department of Electrical and Electronics Engineering, faculty members, student coordinators, and all participants for their valuable support and cooperation in making the ElectroQuest Outreach Training Program a grand success.



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