



EVENT NAME: BRAIN TO BREADBOARD

Organized by: EMSYS NEXGEN Club

Event Date: 24-11-2025

Submission Date: 26-11-2025

College: NEW HORIZON COLLEGE OF ENGINEERING

1. Event Details

Date: 24-11-2025

Time: 2-5pm

Venue: Idea Lab

Organizing Club: EMSYS NEXGEN Club

2. Introduction

The EMSYS NEXGEN Club organized “Brain to Breadboard”, a beginner-friendly and engaging technical event aimed at introducing students to the world of electronics through interactive games and a hands-on prototype challenge.

The main objectives of the event were:

- To spark interest in embedded systems among students.
- To create a fun learning environment through gamified electronics activities.
- To provide participants with an opportunity to apply basic electronic concepts in real time.

3. Event Description

The event consisted of two major rounds, combining both conceptual understanding and practical application.

Round 1: Fun Tech Challenges

This round had two sub-events:

a. Guess What's on My Head

Participants worked in pairs to guess electronic components or terms displayed on their forehead using clues given by their partner in a time span of 90 seconds. This activity encouraged quick thinking, teamwork, and knowledge recall.

b. Decode and Guess

Participants were given short words or letters encoded in Morse code. Teams had to decode the sequences within a limited time of 30 minutes. This tested their analytical skills. 6 top teams that decoded the sequence fastest in the given time with more accuracy proceeded to the next stage.

Round 2: Prototype Building Round

The 2nd round had a workshop conducted by 2 club members Aditya Ritti and Manu Shankar G who briefed about the basics of few sensors and electronic components followed by a hands on prototype challenge.

Shortlisted teams were provided with electronic components such as resistors, LEDs, sensors, and a breadboard with a surprise component provided to each team. Within the given time, participants built a simple functioning prototype based on the theme provided in 1 hour 30 minutes.

This round highlighted creativity, hands-on expertise, and problem-solving under pressure.

Coordinator Contribution

The success of this club event was made possible by the dedicated efforts of the EMSYS NEXGEN Club members, who coordinated every part of the event with exceptional teamwork and professionalism. From planning the rounds and preparing materials to managing registrations, guiding participants, and ensuring smooth flow throughout the sessions, the coordinators handled each responsibility with enthusiasm and precision. Their commitment, quick problem-solving, and ability to keep the event engaging for all participants truly reflected the spirit of the EMSYS Club.

4. Attendance

Total Participants: 26 teams (52 participants)

Audience Profile: Students from various branches

Volunteers/Coordinators: EMSYS Club members and unofficial members

5. Outcomes & Achievements

Participants gained hands-on exposure to basic electronic components and circuit building.

The event achieved its objective of making embedded systems approachable and enjoyable.

The prototype round showcased innovative ideas, teamwork, and practical application of concepts.

Positive feedback was received regarding the fun, engaging structure of the event.

6. Challenges & Solutions

Time Management: With many participants, ensuring timely movement between rounds was challenging.

Solution: Coordinators efficiently divided responsibilities and used clear instructions to maintain pace.

7. Conclusion

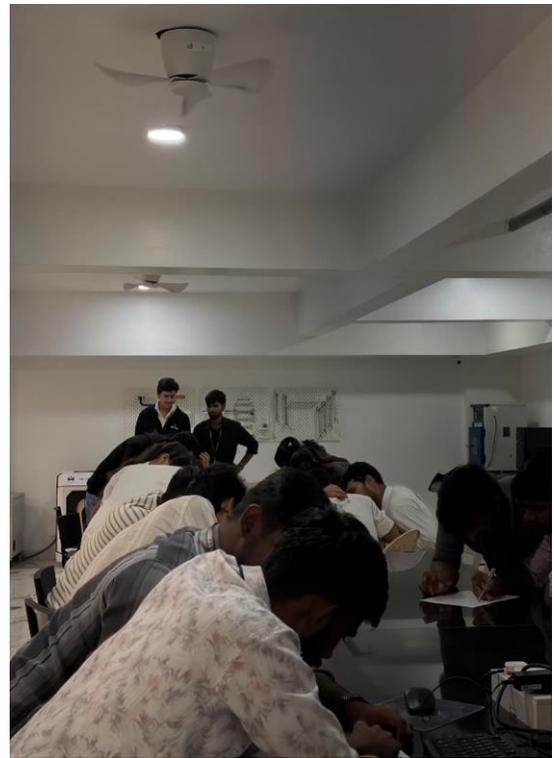
“Brain to Breadboard” was a successful and impactful event that blended fun with technical learning. It effectively introduced students to embedded systems concepts while strengthening teamwork and creativity.

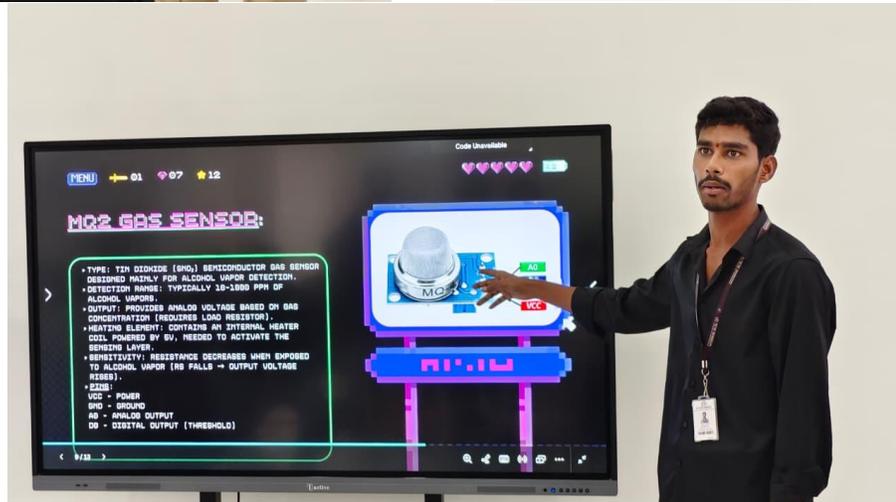
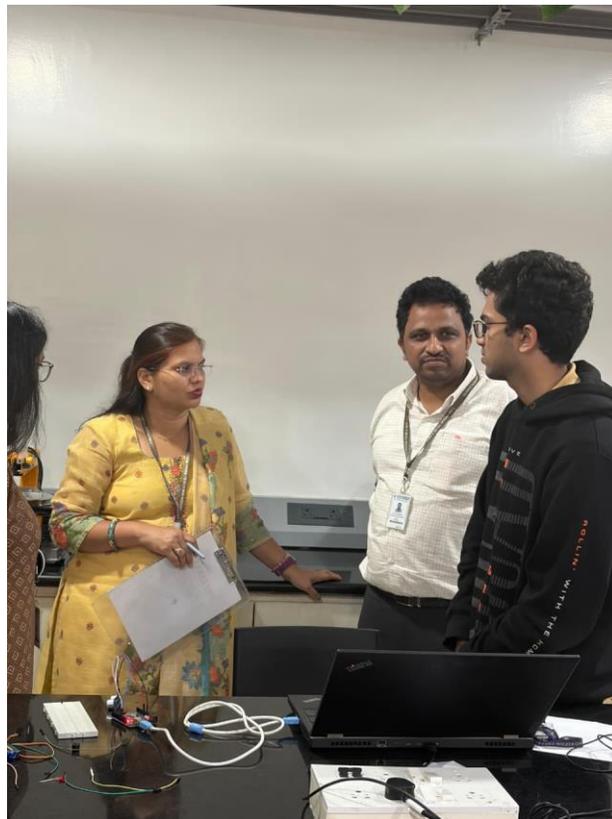
The EMSYS NEXGEN Club plans to further expand such events, incorporating more advanced prototype challenges and workshops in the future.

8. Appendices

Event photos









Poster used for promotion

NEW HORIZON
COLLEGE OF ENGINEERING
25 YEARS OF GLOBAL LEARNING

EMSYS NEX GEN

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

BRAIN TO BREADBOARD

TURN YOUR THOUGHTS INTO TECH!

ROUND 1
DECODE & GUESS GUESS WHAT'S ON MY HEAD

ROUND 2
PROTOPLAY

24th, November
Venue- Idea Lab
Timings-2pm onwards

₹3000 Cash Pool

emsysnexgen.nhce
For any queries, contact :
Parinith - 78298 71875
Arpitha - 90191 78584

scan here to register

Judges/coordinator list

Faculty coordinator: Ms. LIPSA DASH, Senior assistant professor

Department of Electronics and communication engineering