



# Fun with Electronics Report

By Circuitology Club

15 September 2023

Venue: MA 107, Marwadi University



## Introduction

Engineer's Day is celebrated across the world to honor the contributions of engineers to society. In celebration of this day, The Circuitology Club, organized an event "Fun with Electronics." The event aimed to foster creativity, innovation, and practical skills in the field of electronics. It provided participants with an opportunity to engage in various hands-on activities and showcase their talents.

## Event Outcomes

**PO1 (Engineering Knowledge):** Participants apply fundamental electronics principles, such as circuits, components, and basic electrical concepts, to create engaging projects.

**PO2 (Problem Analysis):** The activity involves identifying and troubleshooting electronic circuit issues, enhancing analytical and problem-solving skills.

**PO6 (The Engineer and Society):** By making electronics fun and accessible, the activity promotes awareness of technology's role in everyday life and encourages innovation.

**PO9 (Individual and Teamwork):** Participants work individually and in teams to build and experiment with electronic circuits, fostering collaboration and creativity.

**PO10 (Communication):** Explaining circuit concepts and project ideas to peers or younger students improves communication and presentation skills.

**PO12 (Life-long Learning):** The hands-on nature of the activity fosters curiosity and continuous learning about emerging technologies in electronics.

**PSO1:** The activity helps graduates develop problem-solving skills in embedded systems and electronics, equipping them to tackle real-world challenges in technology and industry applications.



## **Event Overview**

The "Fun with Electronics" event featured four exciting activities that challenged participants to use their knowledge and skills to create electronic projects. Each activity was designed to be both fun and educational.

## **Cubical LED**

Participants were provided with components such as LEDs, resistors, and wires to create a dazzling light show using a cubical LED matrix. They had to program the LED matrix to display various patterns and animations. Creativity flowed as participants designed amazing light displays.



## **POV LED**

Persistence of Vision (POV) is a fascinating concept in electronics. Participants were given the opportunity to build a POV LED display. They used their skills in coding and soldering to create spinning LED messages or images that appeared to float in mid-air when spun rapidly. The effect was both visually stunning and technically challenging.

## **Display Message in LCD (Wirelessly)**

Using wireless communication modules such as HC-05 or NodeMCU, participants were tasked with wirelessly transmitting messages to an LCD screen. This activity encouraged participants to explore the world of wireless data transmission, enabling them to display messages from a remote device on an LCD screen.

## **Game in Dot Matrix LED**

In this activity, participants had to create a simple electronic game using a dot matrix LED display. They had to code the game logic and graphics to make an engaging and enjoyable game. This challenge combined both programming and hardware skills, resulting in exciting and competitive games.





## Glimpses of the event







## Attendees

Gr. No.	Enrolment No.	Name of Participants
123042	92301733063	ANGEL OZA
120865	92301733020	ARMANDO NELVIO MOIANE
122405	92301733043	BHAVIN PANKAJBHAI MUCHHALA
120680	92301733002	DINESH KAMLESH KEVALRAMANI
123014	92301733060	KRUSHANG KAMLESHBHAI SAVALIYA
122441	92301733062	ADITYA RAJ
120914	92301733022	OM CHANDULAL MAKADIYA
123043	92301733064	KATHAN KAMLESH KANSAGARA
122731	92301733054	NIKHILKUMAR JAYESHBHAI BHANDERI
120815	92301733016	ASHUTOSH KUMAR SINGH
119990	92200133015	MAHESHWARIBEN DIPAKBHAI BHADRESHWARA
119737	92200133039	BHUMIKA MOHANBHAI MAKWANA
117229	92200133005	SHYAMA PRAKASH VAGADIA
119893	92200133044	AKASH JAGABHAI CHUDASAMA
120294	92200133048	UMUTONI JUSTINE
118299	92200133011	ARYAN JAGDISHBHAI MAHIDA
119920	92200133045	NAKIBINGE GAVIN
119699	92200133037	NANDINI JAYESH LASHKARI
119311	92200133019	NIDHI SUBHASHBHAI DATTANI
119516	92200133028	HARSHVARDHAN SNEHAL SONI
119238	92200133017	ABHAYBHAI DEVCHANDBHAI PADARIYA
119437	92200133023	FENIL JIGNESHBHAI VADHER



## Feedbacks

 Marwadi University

Club Name: Circuitology club Date: 15 sep 2023

Event Name: Fun with electronics

How would you rate the overall event experience? (Select one)

1 Poor  
 2 Average  
 3 Good  
 4 Very Good  
 5 Excellent

How satisfied were you with the quality of the speakers/presenters? (Select one)

1 Highly Satisfied  
 2 Satisfied  
 3 Neutral  
 4 Dissatisfied  
 5 Highly dissatisfied

How satisfied were you with the flow of the event? (Select one)

1 Highly Satisfied  
 2 Satisfied  
 3 Neutral  
 4 Dissatisfied  
 5 Highly dissatisfied

Was the content relevant to your technical interests and knowledge level? (Select one)

1 Extremely Relevant  
 2 Slightly Relevant  
 3 Neutral  
 4 Slightly Irrelevant  
 5 Not relevant at all

Any Other comments that you would like to mention?

Really well managed event by the circuitology club. Appreciate the effort.

 Marwadi University

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Any Other comments that you would like to mention?

The session was very interactive and got some nice academic insights.