



# SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS

MALANDIGHI, DURGAPUR-713212

## Department of Electrical Engineering

### Event Report

**Title:** *INNOVATE & INTEGRATE: HANDS-ON IOT AND ROBOTICS-BASED PROJECT DEMO*

**Organized By:** Department of Electrical Engineering (EE), SETGOI

**Event Co-Ordinator:** Dr. Nirmalya Mallick and Dr. Dibyendu Sen

**Date:** 14th November 2024

**Time:** 11:30 AM to 4:30 PM

**Venue:** Department of Electrical Engineering, SETGOI Campus

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#### Objective of the Event:

The primary aim of the event was to provide fourth-year B.Tech students with practical insights into IoT and robotics-based project development. The session aimed to bridge the gap between theoretical knowledge and practical application, equipping students with the skills necessary for their final-year projects and future industry demands.

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#### Expert Speaker:

**Mr. Rahul Sharma**

Senior IoT Specialist, Ardent Computech Pvt. Ltd.

With extensive expertise in IoT systems and robotics, Mr. Sharma conducted the workshop, delivering an engaging and hands-on experience for the attendees.

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#### Program Schedule:

##### Morning Session (11:30 AM - 12:30 PM):

1. **Welcome Address:**

The session began with a welcome address by Dr. Nirmalya Mallick and Dr. Dibyendu Sen, highlighting the objectives and significance of the event.

2. **Introduction to IoT and Robotics:**

Mr. Sharma delivered an informative lecture on the fundamentals of IoT and robotics, covering essential components such as sensors, actuators, communication protocols, and microcontroller platforms like Arduino and Raspberry Pi.

3. **Live Demonstration:**

- Setting up an IoT system using Arduino.
- Integration of sensors and cloud platforms for real-time data monitoring.

##### Break (12:30 PM - 1:30 PM):

##### Afternoon Session (1:30 PM - 4:30 PM):

1. **Advanced Techniques in Robotics and IoT:**

- Real-time communication between IoT devices.
- Robotics control using IoT platforms.

2. **Hands-On Activity:**

Students were divided into groups to build and test a basic IoT project under the guidance of Mr. Sharma.

3. **Interactive Q&A Session:**

Mr. Sharma answered student queries and provided guidance on final-year project ideas and challenges.



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### Key Highlights:

- Active participation from over **50 students** in the hands-on session.
- Students gained practical exposure to IoT project setup and debugging techniques.
- Several innovative project ideas were proposed by students during the Q&A session.

### Conclusion:

The event was a resounding success, achieving its goal of enhancing students' practical skills in IoT and robotics. The Department of EE and EEE at SETGOI extends its gratitude to **Ardent Computech Pvt. Ltd.** and **Mr. Rahul Sharma** for their invaluable contribution to this initiative.

The poster features a dark blue background with a circuit board pattern. At the top left, there are logos for SETGOI DURGAPUR, the Society of Electrical Engineers (SEE), and the Sanaka Educational Trust's Group of Institutions. The main title 'INNOVATE & INTEGRATE:' is in large white letters, with the subtitle 'Hands-On IoT and Robotics-based Project Demo.' below it. The central image shows a hand pointing at a glowing digital interface with a globe and a network of nodes. At the bottom right, the event details are listed: Date: 14th November 2024, Time: 11:30am onwards, Venue: Room No. 302B, Department of EE and EEE.

**INNOVATE &  
INTEGRATE**

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