



Department of Electronics and Communication Engineering

Event Report on Tech Talk and Networking Session

Event Details

Event Name: Tech-Talk and Networking Session

Organized by: Robotics Society – ROBOGYAN

Date: 4th Oct, 2025

Time: 12:00 P.M.

Venue: 5th Block , Basement (ROBOGYAN's room)

Participants:

Target Audience: Students from ECE, EEE, CSE, AI-ML, and Mechanical branches interested in robotics, automation, embedded systems, and career development.

Faculty Coordinator: Ms. Shivani

Student Coordinator: Amogh Saxena

Event Overview

The Tech-Talk and Networking Session aimed to bridge the gap between theoretical classroom learning and real-world applications of robotics. The event focused on giving students insight into how automated systems, intelligent machines, and embedded technologies are transforming modern industries. The session was designed not only to educate but also to inspire students to pursue hands-on robotics projects and explore research avenues in automation.

The expert talk offered a comprehensive overview of the present and future landscape of robotics, touching upon industrial trends, emerging technologies, and the increasing integration of AI in robotic systems. Participants received valuable exposure to the functioning of robotic mechanisms, decision-making algorithms, and sensor-driven operations.

Objectives of the Event

The primary objective of the session was to create awareness about modern robotics and the impact of automation on the global technology ecosystem. The event emphasized building technical competencies in embedded hardware, control systems, and intelligent algorithms. Students learned how robotics blends multiple domains such as electronics, programming, mechanics, and machine learning, making it one of the most versatile engineering fields.

Another crucial goal was to strengthen innovation and problem-solving abilities. By interacting with experts and senior robotics members, participants developed a clearer understanding of how to approach engineering challenges, design prototypes, and convert ideas into functional robotic systems. The networking portion promoted collaboration, helping students form connections that could support future projects, competitions, and research work.

Session Highlights

1. Expert Tech-Talk

The Tech-Talk delivered by the invited speaker(s) provided in-depth insights into robotics evolution and its interdisciplinary nature. The session began with an introduction to intelligent machines and moved into key concepts such as autonomous navigation, robotic kinematics, embedded controllers, and sensor integration. Practical examples from healthcare, defense, agriculture, and manufacturing helped students relate theoretical robotics concepts to real-world applications.

2. Demonstration & Discussion

3. The demonstration segment showcased live robotics projects developed by ROBOGYAN members. Students observed how microcontrollers, sensors, logic coding, and actuators work together to create functional robotic systems. Detailed explanations were provided on robot movement logic, PID control basics, object detection, and microcontroller programming. The discussion that followed generated an enthusiastic response from participants, with many asking questions about hardware selection, coding workflows, and improvements for advanced robotics models.

3. Networking Session

The networking portion was one of the most interactive segments of the event. Students had the opportunity to engage with senior society members and faculty mentors. They received guidance on participating in major competitions such as ROBOCON, E-Yantra, and various national hackathons. Several students also formed groups for upcoming innovation challenges, while faculty members encouraged them to explore interdisciplinary mini-projects and apply for research internships in robotics and embedded systems.

Problems Faced and Solutions Implemented

1. Setup Delay of Demonstration Kits

Due to the complexity of preparing sensor modules, controllers, and wiring systems, there was a short delay in setting up the demonstration table. However, the technical team acted promptly and efficiently organized the components, performing quick functionality tests to avoid further interruptions.

2. Audio Quality Disturbance

During the middle of the expert talk, slight disturbances occurred in the microphone system, affecting audio clarity. The organizers quickly switched to a backup audio device, ensuring uninterrupted delivery of the session without hampering the momentum of the talk.

Feedback and Reception

Participants expressed great appreciation for the depth and relevance of the session. Many highlighted that the technical insights and demonstrations helped them understand robotics beyond textbooks. Several students requested more hands-on workshops and project-based sessions to enhance their practical learning experience.

Faculty members praised ROBOGYAN's efforts in promoting technical culture within the department. They acknowledged the strong participation of students and recommended organizing more such multi-domain sessions to inspire young innovators.

Outcome


The session achieved its objective of enriching students' technical knowledge and motivating them to explore robotics more actively. Many participants expressed interest in developing robotics projects and joining ROBOGYAN's ongoing initiatives. The event successfully fostered teamwork, analytical thinking, and creative problem-solving—a crucial set of skills for engineering students.


The interactions during the networking session facilitated meaningful peer learning and mentor-student collaboration. Participants gained clarity on career opportunities, competitions, and hardware/software skills required in the field of robotics and automation.

Conclusion

The Tech-Talk and Networking Session by the Robotics Society – ROBOGYAN was a remarkable success, delivering both academic and practical value to the participants. Through expert knowledge-sharing, hands-on demonstrations, and meaningful networking, the event strengthened the technological enthusiasm of students. The positive feedback and active engagement reaffirm the role of ROBOGYAN in promoting innovation, technical excellence, and collaborative learning within the department.

GLIMPSES OF EVENT


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Department of Electronics and Communication
In association with **ROBOGYAN**
is organizing a

**TECH-TALK &
NETWORKING SESSION**
Bringing Academia and Industry

DATE: 4TH OCT
TIME: 12 NOON
**VENUE: BLOCK-5, BASEMENT
ROBOGYAN ROOM**

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