



IV- INKER ROBOTICS

The Department of Electronics and Communication Engineering (ECE) of Nehru College of Engineering and Research Centre, Pampady, organized an industrial visit for the third and fourth-year ECE students to Inker Robotics, Thrissur, on 22nd September 2025. The core objective of this visit was to give students practical insights into robotics and emerging futuristic technologies, which would enable them to connect their theoretical knowledge with real-world applications. By participating in such visits, students are better prepared to face the demands of a competitive industry, while also developing a deeper understanding of the scope and potential of their field of study.

The program commenced with a warm and cordial welcome extended by the Inker Robotics team, who gave students a comprehensive overview of the organization. They introduced the company's vision, mission, and core areas of focus, emphasizing their efforts to promote innovation in robotics. The team also presented several of their completed projects that have contributed to industrial and domestic solutions in automation and robotics. The students were also introduced to their upcoming venture, "RoboPark," an ambitious initiative aimed at creating a platform for showcasing innovative robotic solutions to the public. This session gave students a broader perspective on how startups and technology-driven companies like Inker Robotics are shaping the future of robotics.



The most engaging part of the visit was the hands-on session, where students had the rare opportunity to directly interact with advanced robotic technologies. The Inker Robotics team conducted live demonstrations of cutting-edge systems such as robotic arms, drones, virtual reality (VR) systems, 3D printing machines. Each segment was carefully explained, with experts describing the working principles, design aspects, and real-world applications of the machines. For example, the robotic arms showcased applications in industrial automation, while drones demonstrated their potential in surveillance, logistics, and research applications.



Similarly, the VR systems and 3D printing machines highlighted the role of immersive technologies and rapid prototyping in engineering and product design. The inclusion of various robots added a unique dimension, illustrating how robotics is also entering the domestic and hospitality sectors.

The program concluded with a feedback session conducted by the S7 students, providing constructive insights into their experience. During this session, students expressed their views on the knowledge they had gained, highlighting the practical relevance of the demonstrations and the opportunity to witness firsthand how robotics can transform industries and daily life. Many students noted that the visit helped them understand the interdisciplinary nature of robotics, as it integrates electronics, mechanical systems, computer programming, and artificial intelligence.



The industrial visit to Inker Robotics, Thrissur, proved to be a valuable learning experience for all participants. The visit was successfully organized under the guidance of **Asst. Prof. Shilja**, **Asst. Prof. Suresh**, and **Asst. Prof. Sree Sankar**, whose efforts ensured smooth coordination and maximum benefit for the students. By bridging the gap between classroom learning and industrial practices, the visit not only enhanced students technical knowledge but also ignited their interest in exploring innovative solutions within the domain of robotics. Overall, this experience has left a lasting impression on the students, motivating them to keep pace with emerging technologies and preparing them for future challenges in their careers.

