



Department of Electronic & Telecommunication Engineering

Topic Name:	Industrial Visit to Tantraniketan Robotics Studio
Name of the Person:	Mrs. Poonan Gawade
Designation:	Founder
Organization/Institution:	Tantraniketan, Dahisar
Date & Time	18 th September 2025, 10 am to 2 pm
Number of Students:	40

Programme Summary / Details:

Introduction As part of our academic curriculum, we had the opportunity to attend an industrial visit related to Electronics and Telecommunication Engineering. The visit was very informative and gave us practical exposure to various electronic components, microcontrollers, and project development methods. It helped us connect theoretical knowledge with real-world applications.

➤ Key Learnings from the Visit

1. Electronic Components During the session, we explored various important electronic components and development boards such as:

- Arduino UNO & Arduino Mega – Used for embedded systems and automation projects.
- ESP32 – A powerful microcontroller with built-in Wi-Fi and Bluetooth, suitable for IoT projects.
- Goistic Controller – Used for controlling robotic and automation systems.
- Smoke Sensor – An essential safety device for detecting smoke and fire hazards.

2. Practical Demonstrations The faculty and industry experts explained how to interface these components and demonstrated their working. We also learned how to design and assemble small projects using these modules.

3. Project Building & Documentation A very useful session was conducted on:

- How to conceptualize and build an electronic project step by step.
- How to test and troubleshoot circuits.
- Importance of documentation and presentation of projects.

4. Uploading & Showcasing Projects We were guided on how to share and showcase our projects on professional platforms such as:

- LinkedIn – To highlight our technical skills and improve professional visibility.
- GitHub – To upload codes, projects, and collaborate with others in open-source development.



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➤ **Outcome of the Visit**

- Gained practical exposure to various microcontrollers and sensors.
- Understood the importance of IoT and automation in modern electronics.
- Learned professional skills like project documentation and showcasing work online.
- Developed motivation to create innovative projects and share them with the wider community.

The industrial visit was a very enriching experience. It bridged the gap between classroom learning and real-world applications. We not only understood the technical aspects of electronic components but also realized the importance of presenting our work in professional networks. This knowledge will definitely help us in our future academic projects, research, and career development.

