SWAMI VIVEKANAND INSTITUTE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, New Delhi and Affiliated to IKGPTU, Jalandhar

Industrial Visit at Wonder Systems India Private Limited

Organizer's Name: Electrical Engineering /Electronics and Communication Engineering
Coordinator's: Mr. Navneet Kumar, Mr. Inderjeet
Date: 28/03/2025
Venue: Wonder Systems India Private Limited
Location: E192, sector- 74, phase-8B, Industrial Area Mohali (Punjab) India 160059

Introduction of the Event:

An industrial visit is an essential part of academic learning, providing students with practical exposure to real-world industrial operations. As part of our educational curriculum, we are organizing an industrial visit to **Wonder System Private Limited**, a leading company known for its innovative solutions and cutting-edge technology.

"Students of EE/ECE Department, SVIET College, during an industrial visit at Wonder Systems, Ropar Division, gaining industry exposure and practical insights.(28-Mar-2025)"

Students: This visit will give participants an opportunity to gain firsthand knowledge of various industrial processes, production techniques, and operational strategies employed by the company. It will also help bridge the gap between theoretical concepts and practical applications, enhancing students' understanding of industry standards, challenges, and best practices.

During the visit, students will interact with industry professionals, explore manufacturing units, and observe advanced technologies in action. This experience will not only enrich their technical knowledge but also provide valuable insights into the corporate work environment, fostering professional growth and career development.

Student Participants at Industrial visit: 21 students of EE/ECE Department

Student Learning Aspects from the Industrial Visit

The industrial visit to **Wonder System Private Limited** offers students valuable insights into real-world industrial processes and professional work environments. Key learning aspects include:

1. **Practical Exposure** – Understanding how theoretical concepts are applied in real-world industrial settings.
2. **Technical Knowledge** – Observing advanced technologies, automation, and engineering practices in action.
3. **Industry Standards & Best Practices** – Gaining insights into quality control, safety measures, and operational efficiency.
4. **Interdisciplinary Learning** – Exploring how different engineering disciplines collaborate in an industrial environment.
5. **Professional Interaction** – Engaging with industry experts to learn about career opportunities, skill requirements, and industry expectations.
6. **Problem-Solving Skills** – Understanding how industries tackle real-time challenges in manufacturing and operations.
7. **Career Readiness** – Bridging the gap between academia and industry to enhance employability and professional competence.

Technological Insights from the Industrial Visit

As a closing note, the industrial visit to **Wonder Systems** provided students with valuable exposure to cutting-edge technologies and modern industrial practices. Some key technological insights gained include:

1. **Automation & Control Systems** – Understanding the role of PLCs (Programmable Logic Controllers), SCADA (Supervisory Control and Data Acquisition), and IoT enabled systems in industrial automation.
2. **CNC Machinery & Fabrication** – Observing computer-aided manufacturing processes, precision metal cutting, and automated assembly lines.

3. **Power Systems & Electrical Infrastructure** – Learning about industrial power distribution, electrical panel design, and energy management systems.
4. **Advanced Sensor Technologies** – Exploring the use of smart sensors for real-time monitoring and process optimization.
5. **Industry 4.0 Integration** – Gaining insights into digital transformation, smart manufacturing, and AI-driven predictive maintenance.
6. **Safety & Quality Control** – Understanding the importance of automation in ensuring product quality, efficiency, and workplace safety.

Mr. Navneet Kumar

Faculty Coordinator