

## **Maharaja Surajmal Institute Of Technology, New Delhi**

### **Department of ECE**

#### **Report on Visit to DIDAC India Exhibition at Yashobhoomi, New Delhi**

As part of the academic curriculum of the Electronics & Communications Engineering Department, Maharaja Surajmal Institute of Technology, a formal industrial visit was organised to DIDAC India Exhibition 2025 at Yashobhoomi, New Delhi on 20.11.2025 for the students of 2<sup>nd</sup> year, ECE. The main objective of the visit was to familiarize students with emerging technologies in education and industry, including AI tools, immersive learning systems, robotics, and smart classroom solutions. It further aimed to help students understand real-world applications, industry trends, and opportunities for innovation and entrepreneurship. This visit was organised for 3<sup>rd</sup> Semester students of ECE department under the academic guidance of Dr. Shaifali Madan Arora, Associate Professor, ECE department and Ms. Prinkle Talan, Assistant Professor, ECE department and was attended by 19 students of 3<sup>rd</sup> Semester ECE.



DIDAC India Exhibition and Conference 2025, held from 18–20 November, 2025 at Yashobhoomi (India International Convention & Expo Centre), New Delhi, was organized by the India Didactics Association (IDA) in collaboration with several international educational bodies. Recognized as Asia's largest event on educational resources, training solutions, and Ed-tech innovations, DIDAC India 2025 showcased cutting-edge products and technologies spanning early learning, K–12, higher education, skill development, and vocational training. The annual event served as a significant platform for educators, institutions, policy-makers, and global technology providers to connect, collaborate, and exchange ideas. It addressed the rising demand for modern, technology-enabled educational tools in India and played a crucial role in promoting future-ready teaching and learning practices across the education ecosystem.

## Purpose of the Visit

- The primary objective of the visit was to provide students with exposure to the latest emerging technologies being introduced in India and to help them understand how these innovations can be seamlessly integrated into daily life to improve comfort, efficiency, and overall quality of living.
- Another important learning outcome was gaining insight into how a technology product is launched in the Indian market, including factors such as product design, customization for Indian users, pricing strategies, and market adaptation to ensure widespread acceptance.
- Additionally, the visit aimed to inspire students to think like future entrepreneurs by observing how technology-driven solutions can be developed for various small- and medium-scale industries. The intention was to encourage them to identify real-world problems and explore opportunities to create impactful, technology-based solutions.

## Major Topics / Sections Covered

- Demonstrations of smart classrooms, digital writing boards, and interactive learning panels
- AI-driven learning tools, adaptive teaching platforms, and personalized assessment systems
- Exposure to robotics, AR/VR applications, and immersive learning environments designed to enhance student engagement
- Modern pedagogical approaches focused on 21st-century skill development, creativity, and problem-solving
- Hands-on vocational training tools and skill-development equipment for real-world learning
- Workshops addressing teacher training, student assessment techniques, and classroom innovation in the digital era
- Advanced solutions for school and campus infrastructure modernization
- Collaborative interactions showcasing international best practices and global educational benchmarks
- Discussions on future-ready education policies, digital transformation, sustainability initiatives, and the evolving landscape of global education

## Innovative Projects/Technologies Observed

### 1. AI-Driven Learning & Automation Tools

- *Adaptive learning platforms* powered by AI that personalize teaching content based on learner performance and progress
- *Automated assessment systems* and AI-enabled chatbots providing instant feedback and real-time academic support

- *Smart analytics dashboards* used for tracking attendance, analysing student behaviour patterns, and generating detailed performance insights

## **2. Robotics, Coding, STEM & Industry 4.0 Solutions**

- *Educational robots* and programmable kits designed to offer hands-on experience in coding, logic building, and automation
- *IoT-based learning modules* demonstrating connectivity among devices, sensor integration, and real-time data communication
- *Industry 4.0 exhibits*, including smart sensors, automated control units, and small-scale factory simulation models showcasing modern industrial automation

## **3. Immersive & Interactive Learning Technologies**

- *AR/VR-based virtual labs* and simulation tools enabling immersive learning experiences in science, engineering, and medical domains
- *Smart classroom ecosystems* featuring interactive displays, wireless collaboration tools, and cloud-integrated teaching platforms
- *3D printing technology* used for rapid prototyping, model creation, and hands-on engineering design applications

## **Interaction with Experts**

During the exhibition, students got the valuable opportunity to engage directly with industry experts, technology developers, and innovation leaders. They provided detailed explanations about the functionality of their products, the challenges encountered during their development, and the real-world problems their innovations are designed to address. These interactions offered us deeper insights into current industry trends, emerging technologies, and future career possibilities within advanced technical fields. The expert guidance significantly enriched the overall experience and helped bridge the gap between theoretical knowledge and its practical application in modern industries.

## **Learning Outcomes**

### **1. Enhanced Understanding of Modern Ed-Tech**

Students gained a comprehensive understanding of the latest educational technologies, including AI-based learning systems, immersive digital tools, robotics, and smart classroom solutions. The visit helped them observe how technology is transforming teaching-learning processes globally.

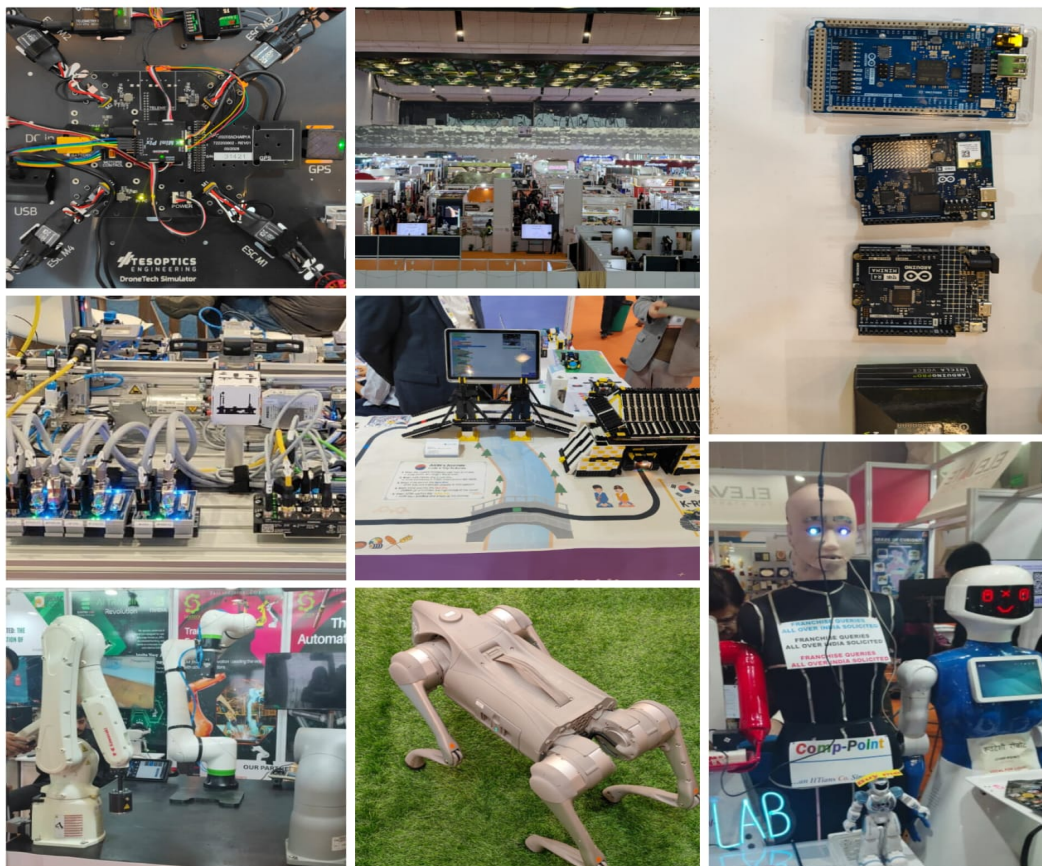
### **2. Improved Technical & Analytical Skills**

Through hands-on exposure to robotics kits, IoT modules, AR/VR simulations, and data-driven platforms, students strengthened their technical proficiency and analytical thinking.

They learned how emerging technologies operate, how data is processed, and how automation enhances efficiency across various domains.

### 3. Broader Awareness of Future Trends in Education

The visit broadened students' perspectives on future educational and industrial trends. They understood global shifts toward personalized learning, digital transformation, Industry 4.0, and skill-based education. This awareness will support their academic growth and encourage innovation and entrepreneurship.



## Conclusion

The visit to DIDAC India 2025 provided meaningful insights into how emerging technologies were reshaping the education landscape. The exhibition showcased practical innovations such as smart classrooms, robotics, and AI-driven learning platforms, offering a deeper understanding of their real-world application. Observing these developments from an engineering perspective broadened technical awareness, sparked new ideas, and highlighted future trends in the education and ed-tech industries. Overall, the experience was highly informative, inspiring, and strengthened the motivation to explore technology-driven solutions within the education sector.



We extend our heartfelt gratitude to the DIDAC India organizing team for their warm hospitality and for providing an enriching platform that enabled our students to explore cutting-edge technologies and global educational innovations.

We also express our sincere thanks to the Management and SMES for their support to visit DIDAC India 2025 that made possible for students to gain meaningful exposure to emerging technologies and industry innovations.

We convey our deep appreciation to our respected Head of Department, Dr. Neeru Rathee, for her continuous encouragement and motivation in promoting experiential learning and industry exposure for students.

We are equally grateful to our esteemed Prof. (Dr.) Avanish Kumar Srivastava, Director Maharaja Surajmal Institute of Technology (MSIT) for his unwavering support, vision, and commitment to fostering academic–industry collaboration within the institution.



Dr Shaifali M. Arora

Assistant Prof, ECE Dept.

(Training Incharge, ECE-I, 2<sup>nd</sup> Year)

Ms. Prinkle Talan

Associate Prof., ECE Dept.

(Training Incharge, ECE-II, 2<sup>nd</sup> Year)

