ST. WILFRED'S COLLEGE OF COMPUTER SCIENCES

Affiliated to Mumbai University, Approved by AICTE- New Delhi, DTE Maharashtra (DTE Code-3539)

INDUSTRIAL VISIT REPORT – 12TH MARCH 2025

OBJECTIVE OF THE INDUSTRIAL VISIT:

The objective of an industrial visit is to provide students with practical insights into the corporate world, offering exposure to key organizational functions like Marketing, HR, Finance, Operations, and Logistics. These visits bridge the gap between theoretical learning and real-world applications, helping students understand industry practices first hand.

An IoT-focused industry visit familiarizes students with real-world applications, technologies, and industry standards. It provides exposure to **IoT infrastructure**, including **hardware, software, sensors, actuators, and communication protocols**, while demonstrating its role in sectors like **healthcare, manufacturing, smart cities, and agriculture**. Students gain insights into **industry protocols (MQTT, CoAP, HTTP), security challenges, data analytics, cloud storage, and AI integration**. The visit also introduces emerging trends like **5G, Edge Computing, and IIoT**, helping students explore career opportunities, interact with industry professionals, and enhance their technical expertise in this evolving field.

PURPOSE OF THE VISIT:

The **IoT industry visit** bridges the gap between theory and practice, offering students firsthand exposure to real-world applications. It helps them understand IoT technologies like **sensors, cloud computing, and data analytics** across industries such as **healthcare, manufacturing, agriculture, and smart cities**. Students gain insights into **industry standards, communication protocols, and security challenges** while exploring **emerging**

trends like 5G, Edge Computing, and IIoT. Interaction with industry professionals enhances their technical knowledge, career awareness, and practical understanding of IoT's transformative impact, preparing them for future roles in the field.

COMPANY PROFILE:

Tantraniketan – Advancing Tech Education is a dynamic startup at the forefront of technological education, fostering tech enthusiasts of all ages. We bridge the gap between theory and practice through hands-on training, workshops, and industry-oriented internships.

Our Vision & Mission

We empower learners with future-ready skills under the **Skill India Mission**, fostering innovation and lifelong growth. Our goal is to make tech education practical, accessible, and impactful.

Why Choose Us?

- **Expert-Led Training:** Specialized programs in **Robotics, IoT, Arduino, AI, and Wireless Technologies**.
- **Hands-On Learning:** DIY kits, real-world projects, and a state-of-the-art robotics lab.
- **Industry-Ready Internships:** Practical exposure for school & college students.
- **Future-Driven Curriculum:** Covering automation, cloud integration, and emerging technologies.
- **Global Perspective:** Preparing learners for international tech challenges.

Our Impact

Since 2019, we have trained **1,000+ students**, nurturing innovators through collaborative learning, hackathons, and mentorship.

Work Culture

We embrace a **hybrid model** with flexible on-site and remote work options, fostering creativity and productivity.

Join Us

🎤 **Headquarters:** Mumbai, Maharashtra

🌐 **Website:** [Facebook - Tantraniketan]

📞 **Contact:** 7709630264

👥 **Company Size:** 2-10 employees

🔬 **Industry:** Robotics Engineering

GIMPSES OF THE INDUSTRY VISIT:


Tantraniketan
GPS Map Camera
Mumbai,Maharashtra,India
New Link Road, Dahisar West, Mumbai,
Maharashtra 400068, India
Lat 19.256142, Long 72.850288
03/12/2025 01:42 PM GMT+05:30
Note : Captured by GPS Map Camera


GPS Map Camera
Mumbai,Maharashtra,India
New Link Road, Dahisar West, Mumbai,
Maharashtra 400068, India
Lat 19.255982, Long 72.850376
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GPS Map Camera
Mumbai,Maharashtra,India
New Link Road, Dahisar West, Mumbai,
Maharashtra 400068, India
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GPS Map Camera
Mumbai,Maharashtra,India
New Link Road, Dahisar West, Mumbai,
Maharashtra 400068, India
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03/12/2025 12:48 PM GMT+05:30
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GPS Map Camera
Mumbai,Maharashtra,India
New Link Road, Dahisar West, Mumbai,
Maharashtra 400068, India
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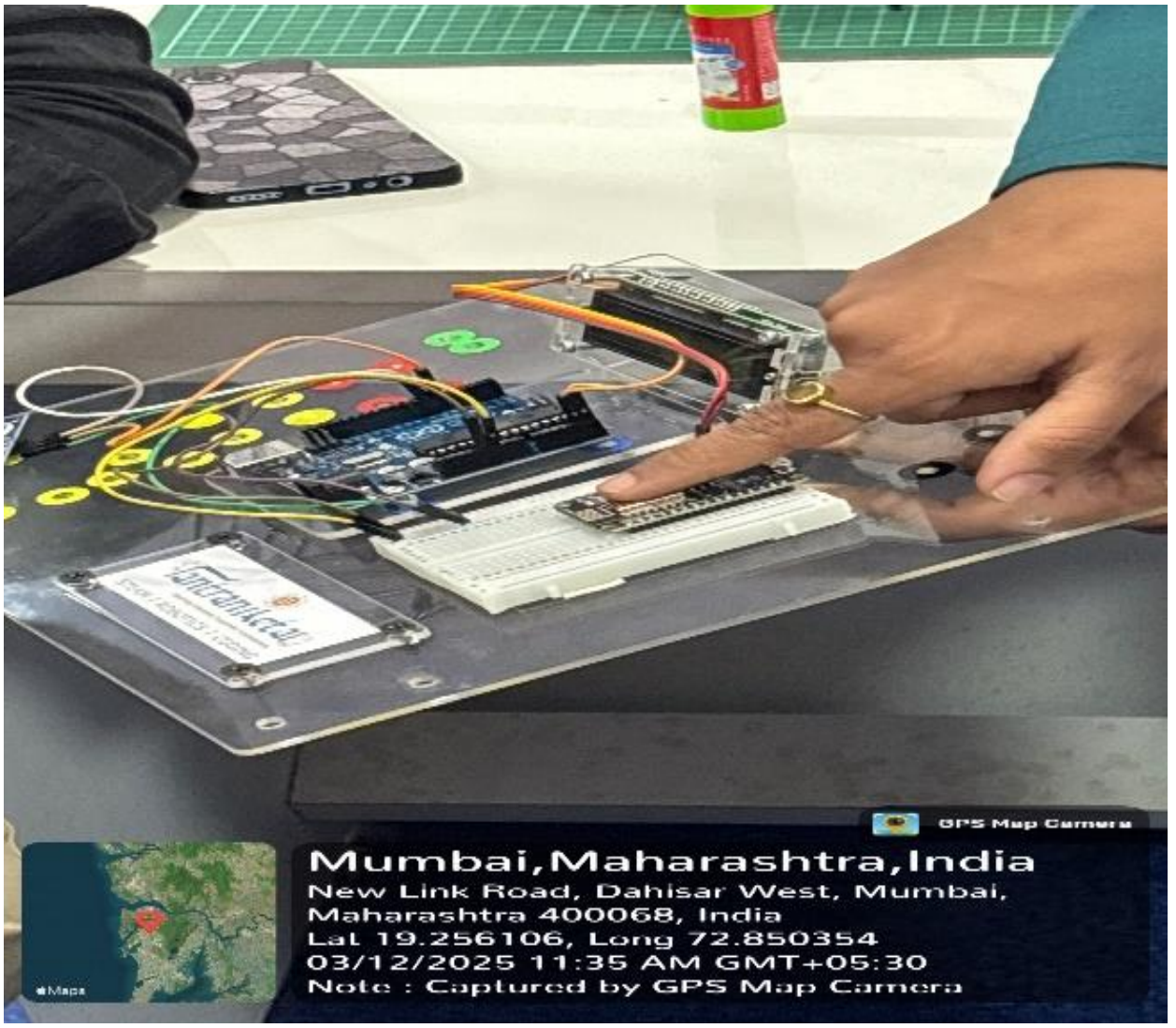

OUTCOME/OBSERVATIONS

Students gain hands-on experience with **IoT devices, sensors, and communication protocols**, understanding real-world applications across industries. They explore **data collection, processing, and cloud integration**, while also learning about **industry standards, security challenges, and best practices**. Exposure to **5G, Edge Computing, and IIoT** broadens their knowledge of emerging trends. Additionally, **interactions with industry experts** provide networking, career insights, and clarity on job roles. The visit **bridges academic learning with industry needs**, equipping students with practical skills and a deeper understanding of IoT's impact.

CONCLUSION:

The IoT industry visit provided students with **practical exposure** to real-world applications, bridging the gap between theory and practice. They gained hands-on experience with **IoT devices, sensors, communication protocols, and data management**, enhancing their understanding of **industry standards and security challenges**. Insights into **5G, Edge Computing, and IIoT** kept them updated on emerging trends. **Industry interactions** offered valuable career guidance and networking opportunities. The visit was **well-organized and informative**, strengthening students' technical skills. Future visits could include **interactive sessions and live demonstrations** for a more immersive learning experience.

Prepared by: Ms. Sathiyabama, Asst. Professor, SWCCS

Verified by: Ms. Firoza Mirza, TPO, SWCCS

Submitted to: Dr. Shubhi Lall Agarwal, Director, SWCCS