A Report on Industrial Visit to "Tamil Nadu Smart and Advanced Manufacturing Centre (TANSAM), Chennai"

Organized by Department of Computer Science & Engineering on 28th October 2026



Report Submitted by: Mr. T. Murali, Assistant Professor, Department of CSE.
Venue: Tamil Nadu Smart and Advanced Manufacturing Centre (TANSAM), 2nd Floor, New Mechanical Building, Anna University, Kotturpuram, Chennai - 600025.
Mode of Conduct: Offline (On-site Industrial Visit) Attendees Count: 48 from III-Year CSE – H
Faculties Accommodated: Mr. T. Murali, Ms. G. Vandana
Report Received on 02.11.2026

Company Details:
Company Name: Tamil Nadu Smart and Advanced Manufacturing Centre (TANSAM) Office Address: 2nd Floor,

New Mechanical Building, Anna University, Kotturpuram, Chennai - 600025.

Objectives:

- To **bridge the gap between academic learning and industry practices** by exposing students to real-world IT environments, processes, and workflows
- To develop a practical understanding of how emerging technologies such as **AR/VR, IoT, Artificial Intelligence, Machine Learning, Deep Learning and Robotics** are utilized in the industry to address real-world challenges.
- To provide students with an opportunity to **interact with industry professionals** and gain insights into career opportunities, industry-relevant technical skills, and emerging trends in the IT sector.

Report Summary:

The Department of Computer Science and Engineering, MITS (Deemed to be University), organized an industrial visit to **Tamil Nadu Smart and Advanced Manufacturing Centre (TANSAM), Chennai**, on **28th October 2026**. The visit aimed to provide students to gain practical exposure to advanced technologies and Industry 4.0 applications.

During the visit, **Mr. Mohan B, CEO**, **TANSAM** explained the various processes and activities carried out at TANSAM, including smart manufacturing, industrial automation, digital technologies, and advanced engineering solutions.



Following the introductory session, the students were taken through the various laboratories, where the technical team explained their functions, applications, and industrial significance.

The laboratories and centres covered during the visit included:

- **Product Innovation Centre** – Product design and development.
- **Centre for Predictive Engineering Analytics** – Engineering simulation, modelling, and analysis.
- **Innovative Manufacturing Centre** – Advanced manufacturing, 3D printing, and reverse engineering.
- **Smart Factory Research Centre** – Smart manufacturing, automation, and robotics.
- **Centre for Asset Performance Management** – IoT-based monitoring and predictive maintenance.
- **Industrial IoT and Equipment Centre** – Industrial IoT, sensors, and equipment automation.
- **Product Lifecycle Management (PLM) Centre** – Product data management and digital product development.
- **AR/VR/MR Research Centre** – Immersive technologies and virtual simulations.
- **Digital Technologies Centre** – Artificial Intelligence (AI), Machine Learning (ML), and computer vision.

The visit provided students with valuable exposure to modern industrial technologies and their practical applications. It helped them understand the importance of automation, digital transformation, and industry-oriented skills in advanced manufacturing.

Overall, the industrial visit was informative and beneficial in bridging the gap between theoretical knowledge and practical industrial applications.

Outcome of the Event:

- Gained practical knowledge of **Smart Manufacturing and Industry 4.0 technologies.**
- Understood the importance of **AI, IoT, Robotics, and Industrial Automation in modern industries.**
- Learned the applications of **3D Printing, Engineering Simulation, and Predictive Maintenance.**
- Bridged the gap between theoretical knowledge and **real-time industrial applications**.
- Enhanced awareness of **emerging technologies, industry requirements, and career opportunities** in advanced manufacturing.