

REPORT

INDUSTRIAL VISIT

IIITDM KANCHEEPURAM

Indian Institute of Information Technology, Design and Manufacturing

Date: 19/01/2026

Venue: IIITDM Kancheepuram Campus

Purpose: To explore interdisciplinary domains including IoT, 3D Printing, Automation, and Content Creation.

Institute Overview

IIITDM Kancheepuram is an Institute of National Importance established by the Ministry of Education. It focuses on IT-enabled Design and Manufacturing, bridging the gap between hardware and software through state-of-the-art laboratory facilities.

Key Highlights of the Visit

The visit was organized across four specialized laboratories, providing a comprehensive view of modern industrial standards:

1. Content Creation Laboratory

- **Focus:** Professional Development & Industry Readiness.
- **Key Takeaways:** Gained insights into the evolving industrial standards required for placements. Experts emphasized the critical role of internships and skill-building in securing roles within reputed global companies.

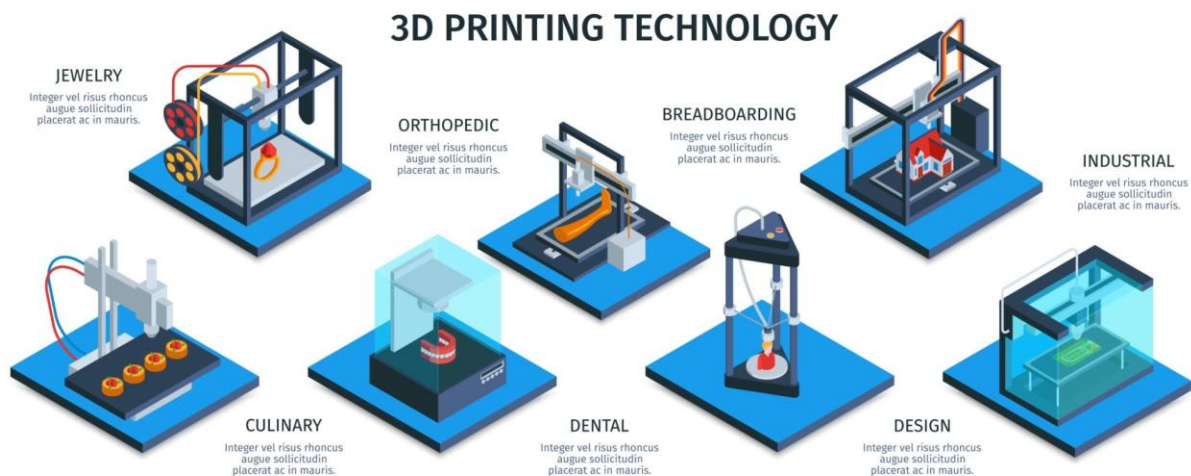
2. IoT (Internet of Things) Laboratory

- **Focus:** Smart Systems and Connectivity.

- **Key Takeaways:** Introduced to the **Raspberry Pi** ecosystem. Observed a practical demonstration of an **IR Sensor** integrated with IoT protocols to understand basic automation and data sensing.

3. 3D Printing Laboratory

- **Focus:** Additive vs. Traditional Manufacturing.
- **Key Takeaways:** Explored the shift from conventional machining to non-conventional techniques. Learned how **Rapid Prototyping** via 3D printing offers superior flexibility, precision, and cost-effectiveness in design.



4. Automation Laboratory

- **Focus:** Industrial Efficiency & Robotics.
- **Key Takeaways:** Observed advanced automation devices and threading machines in action. The session demonstrated how automated systems significantly boost productivity and reduce human error in mass production.

Interactive Session

The faculty and lab instructors engaged with students to discuss:

- The integration of **Design Thinking** in technical projects.
- Future career opportunities in **Industry 4.0** and Smart Manufacturing.

- The importance of cross-disciplinary knowledge (combining coding with mechanical hardware).

Conclusion

The visit to IIITDM Kancheepuram was highly informative, offering a "hands-on" perspective on how technology drives modern manufacturing. It provided a clear roadmap for students to align their technical skills with current industrial practices. We thank the IIITDM faculty for this enriching technical exposure.

