LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS)
Accredited by NAAC with 'A' Grade
An ISO 21001:2018,14001:2015,50001:2018 Certified Institution
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B. REDDY NAGAR, MYLAVARAM, NTR DIST., A.P.-521 230.
hodcsm@lbrce.ac.in, csmoffice@lbrce.ac.in, Phone: 08659-222 933, Fax: 08659-222931
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AI&ML)

# Report on Two-day industrial visit

# to

# "MSME TECHNOLOGY CENTER VISAKHAPATNAM"

| | |
|---|---|
| **Event Type** | **:** Industrial visit |
| **Date** | **: 21st** to **22nd** March 2025 |
| **Time** | **:** 09:00 AM - 5:00 PM |
| **Place of visit** | **:** MSME TECHNOLOGY CENTER VISAKHAPATNAM |
| **Organized by** | **:** Department of CSE( AI & ML), LBRCE. |
| **Faculty accompanied** | **:** Dr B Rajendra Prasad ,Dr Shaik Salma Asiya Begum, Mr L Narendra, Mr Y Kranthi Kumar, Mr. R. Chiranjeevi, Ms. P. Padmini |
| **Total no. of Students visited** | **:** 122 |

**Description:**

The industrial visit began with 122 students and 6 faculty coordinators departing from the college campus at 7:15pm in three private buses, reaching the destination by 6:00 am. Upon arrival, the resource person, Prof. **Dr. K. Murali Krishna** (HoD, Mechatronics) provided a brief overview of innovative industry technologies, including AI, Cloud Computing and Networking. After the presentation, the students took a break for Snacks. After the break, they visited data center, Cloud, and AI services along with an extensive managed service.

**Objective of industrial visit**

An industrial visit to the MSME Technology Center, Visakhapatnam aims to provide participants with valuable exposure to real-time industrial operations and modern manufacturing practices. It helps in understanding the functioning of Micro, Small, and Medium Enterprises (MSMEs) and their significant role in economic development. The visit offers insights into advanced

technologies such as CNC machining, 3D printing, electronics, and IoT, while also highlighting the various skill development programs and training opportunities available. Participants get a chance to interact with industry experts, witness live demonstrations, and explore entrepreneurial avenues supported by the government. Overall, the visit serves as a bridge between academic learning and industrial application, enhancing technical knowledge, practical awareness, and career readiness.

**Outcome of industrial visit**

The industrial visit to the **MSME Technology Center, Visakhapatnam**, provided students/participants with valuable insights into the real-time industrial environment and the application of advanced manufacturing and design technologies. Key outcomes of the visit include:

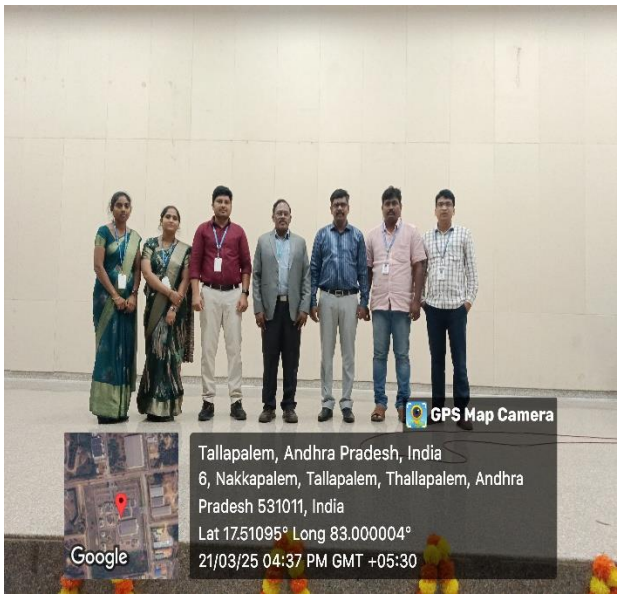
1. **Exposure to Modern Technologies**: Participants observed the use of advanced machinery including CNC machines, 3D printers, precision tools, and CAD/CAM software used in design and manufacturing processes.
2. **Understanding MSME Support Mechanisms**: The visit offered an understanding of how the Technology Center supports Micro, Small, and Medium Enterprises (MSMEs) through technical training, consultancy, and infrastructure support.
3. **Skill Development Opportunities**: Students were introduced to various short-term and long-term training programs available at the center, particularly in areas like automation, tool design, and digital manufacturing, encouraging them to pursue skill enhancement courses.
4. **Real-Time Industry Exposure**: Observing the workflow, quality control processes, and safety protocols provided a hands-on learning experience that bridges the gap between academic knowledge and industrial practices.
5. **Networking and Career Insights**: Interaction with industry professionals helped participants understand career pathways in the field of manufacturing, design, and entrepreneurship within the MSME sector.
6. **Encouragement Towards Innovation**: The center's emphasis on innovation and R&D inspired students to think creatively and consider industrial challenges as opportunities for research and development.

**Company Profile**

MSME Technology Center, Visakhapatnam is a state-of-the-art institution established by the Government of India under the Ministry of Micro, Small and Medium Enterprises (MSME) as part of the Technology Centre Systems Program (TCSP). Located in Auto Nagar, Visakhapatnam, the center is dedicated to enhancing the competitiveness of MSMEs and empowering youth

through advanced skill development, technical training, and precision manufacturing support. Equipped with cutting-edge infrastructure such as CNC machines, CAD/CAM labs, 3D printing facilities, and automation units, the center offers a wide range of long-term and short-term training programs in areas like tool design, mechatronics, and industrial automation. It also provides design, consultancy, and prototyping services to MSMEs and supports innovation and entrepreneurship through incubation and mentoring. The center plays a vital role in bridging the gap between industry and academia, fostering a skilled workforce for sustainable industrial growth.

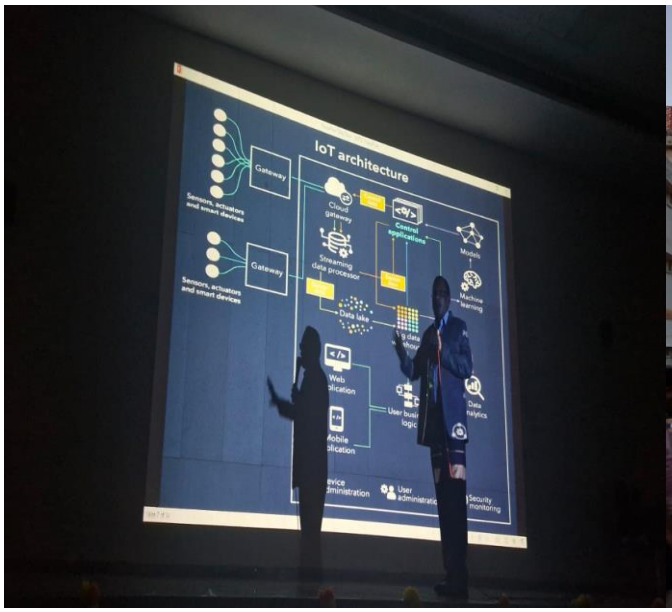

**Before departure**





**Faculty and students at the venue**


Resource Person Prof. **Dr. K. Murali Krishna** (HoD, Mechatronics)


IoT architecture
Gateway
Sensors, actuators and smart devices
Gateway
Sensors, actuators and smart devices
Cloud gateway
Streaming data processor
Data lake
Control applications
Models
Machine learning
Data analytics
Web application
Mobile application
User business logic
Device administration
User administration
Security monitoring


MSME-TC(V)





A group photo with Resource Person Prof. **Dr. K. Murali Krishna** (HoD, Mechatronics) and Dr Prasad Reddy garu

**Feedback given by the students, staff in MSME**

To provide helpful feedback for the MSME (Micro, Small, and Medium Enterprises), consider focusing on areas like access to finance, technology adoption, skill development, and streamlining regulations to foster growth and competitiveness.





**Appreciation Certifictes given by MSME Team to Students:**



GPS Map Camera
Tallapalem, Andhra Pradesh, India
6, Nakkapalem, Tallapalem, Thallapalem, Andhra Pradesh 531011, India
Lat 17.510978° Long 82.999967°
21/03/25 04:35 PM GMT +05:30
Google


GPS Map Camera
Tallapalem, Andhra Pradesh, India
6, Nakkapalem, Tallapalem, Thallapalem, Andhra Pradesh 531011, India
Lat 17.510982° Long 82.999969°
21/03/25 04:35 PM GMT +05:30
Google


GPS Map Camera
Tallapalem, Andhra Pradesh, India
6, Nakkapalem, Tallapalem, Thallapalem, Andhra Pradesh 531011, India
Lat 17.510807° Long 82.999769°
21/03/25 04:36 PM GMT +05:30
Google


GPS Map Camera
Tallapalem, Andhra Pradesh, India
6, Nakkapalem, Tallapalem, Thallapalem, Andhra Pradesh 531011, India
Lat 17.510818° Long 82.99977°
21/03/25 04:36 PM GMT +05:30
Google


GPS Map Camera
Tallapalem, Andhra Pradesh, India
6, Nakkapalem, Tallapalem, Thallapalem, Andhra Pradesh 531011, India
Lat 17.510927° Long 82.999921°
21/03/25 04:36 PM GMT +05:30
Google

## Impact analysis

The industrial visit to MSME Technology Center had a significant and multifaceted impact on the participants. The visit served as a bridge between academic learning and industrial application, resulting in the following key impacts:

**1. Academic Enrichment**

- Reinforced classroom concepts through real-world applications in manufacturing, automation, and design.
- Enabled better understanding of subjects such as CAD/CAM, CNC programming, robotics, and industrial safety.

**2. Skill Awareness and Development**

- Exposed participants to cutting-edge tools and technologies, increasing awareness of industry-required skills.
- Motivated students to enroll in skill development programs offered by the center to enhance employability.

**3. Career Orientation**

- Provided clarity on various career options within the MSME ecosystem, including roles in design, production, quality control, and entrepreneurship.
- Encouraged students to consider opportunities in government-supported industries and start-ups.

**4. Innovation and Research Motivation**

- Observing industrial innovation in action encouraged participants to develop problem-solving skills and a research mindset.
- Sparked interest in participating in mini-projects, internships, and academic research aligned with real industry problems.

**5. Entrepreneurial Insight**

- Provided a clear view of how MSMEs function, and how the government supports innovation and start-ups through incubation and funding opportunities.
- Inspired some students to explore entrepreneurial ventures with support from technology centers.

### 6. Networking and Industry Connect

- Strengthened industry-academia linkage, paving the way for future collaborations, internships, and technical guidance.
- Gained contacts and mentors within the MSME Technology Center, creating pathways for future engagement.

### 7. Soft Skills and Team Building

- Fostered teamwork, communication, and observation skills through group learning during the visit.
- Improved confidence in interacting with professionals and presenting technical questions.

**Co-Ordinators:**

Dr B Rajendra Prasad
Dr Shaik Salma Asiya Begum
Mr L Narendra
Mr Y Kranthi Kumar
Mr. R. Chiranjeevi
Ms. P. Padmini

**Dr. S.JAYAPRADA**

**(Head of the Department)**