Bansilal Ramnath Agarwal Charitable Trust's
Vishwakarma Institute of Technology, Pune

Department of CSE(AI&ML)

Report on STTP/FDP/Workshop/Seminar/Guest Lectures/Industry Visit Organized

"Report on Industry Interaction and Project Review at Forbes Marshall"

Date: 24/07/2025

Industry Details: Forbes Marshal Date: 24/07/2025, Tuesday

Time: 11 am to 5 pm

Location: Forbes Marshall, Chakan, Pune

Institution: Vishwakarma Institute of Technology (VIT), Pune

Department: Computer Science and Engineering – AI&ML

Purpose: SMA-Project Briefing Meeting

Industry Mentor: Manoj Jadhav (9823098919)

VIT Mentor: Dr. Jyoti Kanjalkar, CSE(AI&ML)

Students Involved:

Atharv Patwardhan, TY CSE(AI&ML) - A
Vishruti Mohinkar, TY CSE(AI&ML) - A
Atharv Muchandi, TY CSE(AI&ML) - A
Vedant Nagmoti, TY CSE(AI&ML) - A

Objectives of Forbes Marshall Industry Visit

1. To review the progress of industry-sponsored student projects and align them with real-world requirements.
2. To bridge the gap between academic learning and industrial practices through direct interaction with industry professionals.
3. To provide students with exposure to real-world challenges and applications in the industry.
4. To facilitate interaction with industry mentors for guidance, insights, and feedback.
5. To promote industry-academia collaboration for innovation and skill development.
6. To encourage students to develop practically viable and industry-relevant solutions.

Overview

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A fruitful interaction was held at Forbes Marshall, focused on reviewing the progress of ongoing industry-sponsored student projects. These collaborative initiatives are a part of our continuous efforts to bridge the gap between academia and industry, fostering innovation and empowering students with real-world exposure and practical learning.

Highlights of the Interaction

- Insightful discussions were held with industry mentors, focusing on current challenges and real-world applications.
- Two student teams from TY-CSE-AIML presented innovative solutions to real-world problems proposed by Forbes Marshall.
- The event emphasized the importance of industry-academia collaboration in building job-ready, practically-skilled graduates.

Project Mentorship

Under the expert guidance of Dr. Radhika Kulkarni and Dr. Jyoti Kanjalkar, the student teams have made significant strides in their respective projects. One of the mentored teams comprises the following talented TY-CSE-AIML students:

- Atharva Patwardhan
- Vedant Nagmoti
- Vishruti Mohinkar
- Atharv Muchandi

Their work was highly appreciated for its practical orientation and technical depth.

Acknowledgments

We extend our sincere gratitude to the following individuals at Forbes Marshall for their continued encouragement, valuable feedback, and industry insights:

- Vishwanath Sir
- Rahul Sir
- Anand Sir
- Suryakant Sir

Their involvement has been instrumental in shaping these student projects.

Leadership Support

This collaborative effort has been made possible through the visionary leadership and guidance of:

- Bharat Agarwal Sir, Executive Director & Managing Trustee, VIT Pune

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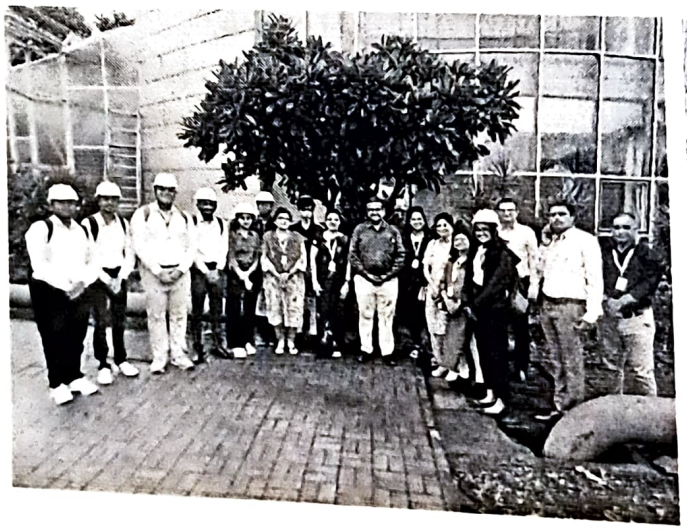
- Rajesh Jalnekar Sir, Director, VIT Pune
- Vivek Deshpande Sir, Director, VIIT Pune
- Dr. Atul Kulkarni Sir, Director – Corporate Relations, VIT & VU
- Leena Deshpande Madam, Associate Director – Corporate Relations, VIT & VU
- Dr. Radhika Kulkarni Madam, Associate Dean – Corporate Relations, VIT & VU
- Dr. Premanand Ghadekar, HoD, CSE-AIML Department, VIT Pune

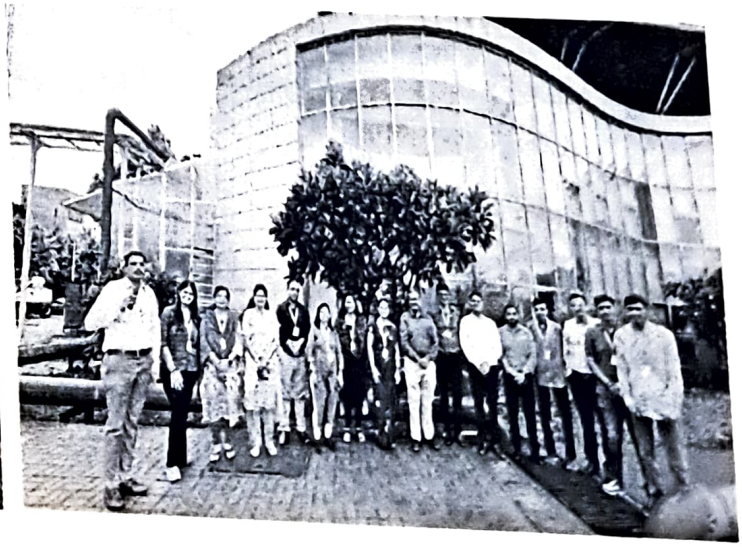
Faculty Contributions

We also acknowledge the continuous support and guidance of our dedicated faculty members:

- Dr. Deepali Jadhav Madam
- Dr. Namrata Kharate-Wasatkar Madam
- Rakhi Bhardwaj Madam
- Vivek P. Sir
- Gajanan Gambhire Sir
- Manoj Jagdale Sir
- Prasad Chaudhari Sir

PHOTOS OF THE VISIT





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Outcomes of the Industry Visit

- Students gained practical exposure to real-world problem statements and industrial expectations.
- Student teams successfully presented innovative solutions to industry-defined problems.
- Students received valuable feedback and insights from industry experts, helping refine their projects.
- Enhanced understanding of industry practices, current challenges, and applications.
- Improved technical, presentation, and communication skills through project reviews.
- Strengthened industry-academia relationship, enabling future collaborations.
- Students developed job-ready skills and practical orientation, aligning with industry needs.

POs Attained:

PO1 – Engineering Knowledge:
Students gained a fundamental understanding of wire manufacturing processes, material behavior, and quality control techniques used in the cement industry.

PO2 – Problem Analysis:
Exposure to real-world challenges in detecting surface defects enabled students to analyze complex manufacturing problems and explore efficient solutions.

PO4 – Conduct Investigations:
Understanding defect types and inspection methods provided insight into industrial investigation techniques, testing procedures, and defect analysis.

PO5 – Modern Tool Usage:
Students were introduced to modern inspection systems, automation technologies, and the potential use of AI/computer vision for real-time defect detection.

PO7 – Environment and Sustainability:

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Learning about quality control and defect reduction highlighted the importance of minimizing material waste and improving sustainable manufacturing practices.

PO12 – Lifelong Learning:
The visit encouraged curiosity and motivated students to explore advanced technologies in automation, manufacturing, and intelligent inspection systems.

PSOs Attained:

PSO1 – Apply Computing Techniques:
Students were able to relate classroom concepts to real-world applications by exploring the use of computer vision, image processing, and automation systems for defect detection in wire manufacturing.

PSO2 – Design and Evaluate Solutions:
Exposure to industrial challenges enabled students to understand the design, feasibility, and evaluation of an automated real-time defect detection system, considering accuracy, speed, and reliability.

PSO3 – Explore AI Applications:
The interaction highlighted the potential use of AI and machine learning in identifying surface defects, thereby enhancing students' interest in intelligent manufacturing and smart inspection systems.

Faculty Mentor:

Dr. Jyoti P. Kanjalkar

CSE(AIML)

Submitted

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