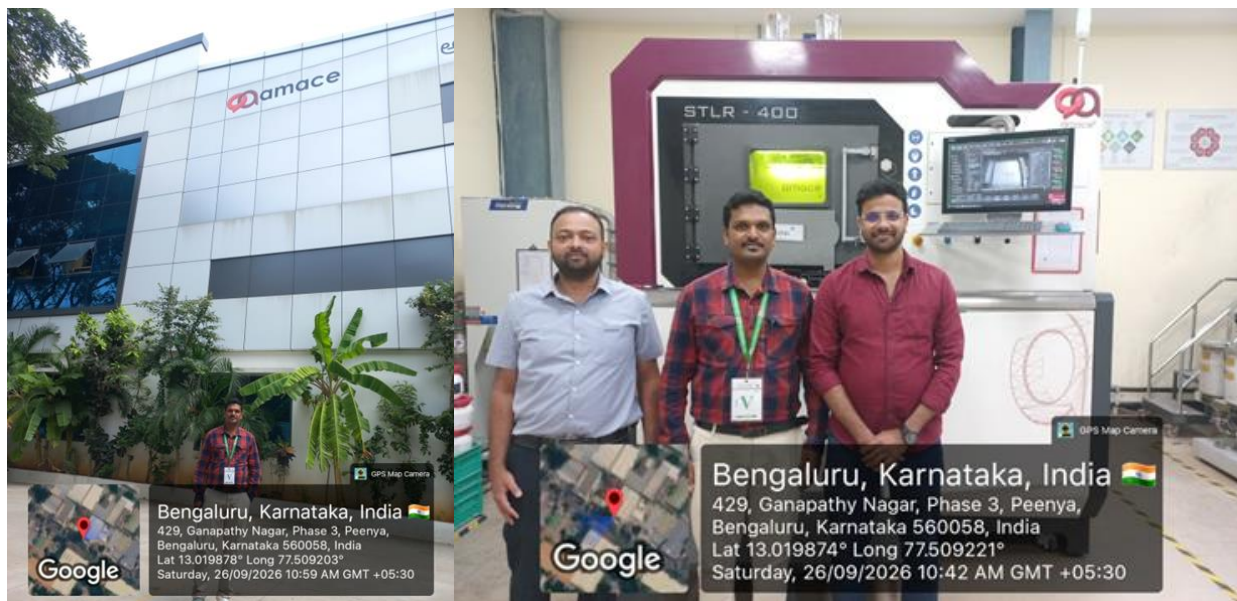


A Report on Industry Institute Interaction Visit to
"Amace Solutions Pvt. Ltd, Bangalore"
Organized by Department of Mechanical Engineering
on 26.09.2026.



Report Submitted by: Dr. G. Bala Narasimha, Assistant Professor, Department of Mechanical Engineering.
Date of Visit & Time: 26/09/2026, 10:00 a.m.

Mode of Conduct: Offline

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1. Introduction

As part of the efforts of the Department of Mechanical Engineering, Madanapalle Institute of Technology & Science (MITS), to strengthen industry-academia interaction and promote experiential learning, an industrial visit was undertaken to **AMACE Solutions Pvt. Ltd., Bengaluru, on 26 September 2026.**

The visit was primarily aimed at understanding the industrial applications of metal additive manufacturing (AM) and exploring opportunities for collaboration between AMACE Solutions and MITS in the areas of student internships, industrial visits, technical training, guest lectures, Memorandum of Understanding (MoU), career opportunities, and faculty research collaboration.

The visit provided an opportunity to gain practical exposure to the industrial implementation of metal additive manufacturing and understand the requirements and challenges involved in transitioning from conventional manufacturing to advanced manufacturing technologies.

2. About AMACE Solutions Pvt. Ltd.

AMACE Solutions Pvt. Ltd. is an organization focused on metal additive manufacturing and advanced manufacturing solutions. Established in 2018, AMACE is an arm of the Ace Micromatic Group (AMG), one of India's prominent machine-tool groups.

AMACE focuses on enabling industries to adopt additive manufacturing technologies by providing solutions covering metal additive manufacturing machines, materials, process development, and application-oriented solutions.

The company aims to make additive manufacturing more accessible and efficient for industries and supports applications requiring complex geometries, precision manufacturing, customized components, and advanced material processing.

The company's activities are relevant to several high-technology sectors, including:

- Aerospace
- Automotive
- Healthcare and medical applications
- Tooling and dies
- Engineering components
- Precision manufacturing
- Advanced materials and manufacturing

The industrial exposure provided during the visit helped in understanding how additive manufacturing is being integrated into modern manufacturing systems and how engineering professionals need to combine knowledge of materials science, manufacturing processes, CAD, simulation, process parameters, and component testing.

Objectives of the Visit

The visit was undertaken as part of the **Industry–Institute Interaction initiative**, with the primary objective of exploring opportunities for establishing a Memorandum of Understanding (MoU) between the Department of Mechanical Engineering, MITS Deemed to be University, and Amace Solutions Pvt. Ltd, Bangalore.

The specific objectives of the visit were:

- To strengthen industry–academia collaboration.
- To explore opportunities for student internships and industry-oriented projects.
- To discuss the possibility of organizing industrial visits and technical training programmes for students.
- To explore placement support and career development opportunities for students.
- To identify opportunities for skill development, guest lectures, workshops, and faculty interaction.
- To explore other areas of collaboration that could benefit students, faculty, and the institution.

Interaction and Technical Discussion

During the visit, an interactive discussion was held with the technical team of AMACE regarding the

- **Working and applications of metal additive manufacturing** were explained by the technical team, including the CAD design, printing process, materials used, and post-processing.
- The team explained the importance of **post-processing, testing, and characterization** of 3D-printed components, including mechanical testing, dimensional inspection, surface evaluation, and microstructural examination.
- Discussions were held on opportunities for **industry–academia collaboration between AMACE Solutions and MITS**.
- The possibility of conducting **guest lectures, technical training programmes, and industrial visits** for MITS students was discussed.
- **Internship and career opportunities** for MITS students in additive manufacturing, design, materials, manufacturing, testing, and research were also discussed.
- The possibility of establishing an **MoU between AMACE Solutions and MITS** was discussed to support internships, industrial visits, training, guest lectures, student projects, and other academic activities.
- Opportunities for **joint research and consultancy** in areas such as additive manufacturing, advanced materials, process optimization, and characterization were also discussed.
- The interaction was useful in understanding the current industrial practices in metal additive manufacturing and provided a valuable opportunity to identify areas where the expertise and facilities of the industry and academic institution can complement each other.

Outcomes of the Visit

- Gained practical knowledge about metal additive manufacturing and its industrial applications.
- Understood the printing process, materials, post-processing, and testing methods.
- Identified opportunities for student internships and industrial visits.
- Discussed possibilities for guest lectures and technical training programmes.
- Explored potential career opportunities for students in additive manufacturing.
- Discussed the possibility of establishing an MoU between AMACE Solutions and MITS.
- Identified opportunities for joint research and consultancy activities.
- Strengthened industry–academia interaction between AMACE Solutions and MITS.

Conclusion

The industrial visit to AMACE Solutions Pvt. Ltd., Bengaluru, was informative and provided valuable insights into metal additive manufacturing and its industrial applications. The visit helped in understanding the printing process, materials, post-processing, and testing of AM components. The interaction also provided opportunities to explore student internships, industrial visits, guest lectures, training programmes, MoU, and research collaboration between AMACE Solutions and MITS. Overall, the visit was a useful step towards strengthening industry–academia interaction and providing students with better exposure to advanced manufacturing technologies.

Acknowledgement

The Department of Mechanical Engineering, MITS, sincerely expresses its gratitude to the Honourable Chancellor, Vice Chancellor, Registrar, and Principal for their approval, encouragement, and support in facilitating this industrial visit and providing an opportunity to explore potential industry–academia collaborations and gain valuable industrial exposure. We extend our special thanks to Dr. S. Baskaran, Head of the Department, Department of Mechanical Engineering for his constant guidance, encouragement and support. We also sincerely thank the management and technical team of AMACE Solutions Pvt. Ltd., Bengaluru, for their warm welcome, valuable technical discussions, and support in exploring opportunities for industrial visits, internships, training, MoU collaboration, career development, and joint research activities.