



SRI SAIRAM COLLEGE OF ENGINEERING
(Accredited by NAAC, ISO 9001:2015 Certified Institution, Approved by AICTE, New Delhi, Affiliated to VTU, Belagavi)
Anekal, Bengaluru – 562106, Karnataka
DEPARTMENT OF MECHANICAL ENGINEERING



Date – 29.04.2025

A

Report for

Industrial Training on

“MIG (Metal Inert Gas) Welding Lab and MMM (Metrology, Measurement and Maintenance) Lab”

The Department of Mechanical Engineering organized an industrial training program for second and third-year students at Hosur Industry Association (HIA) from 15th April 2025 to 22nd April 2025. The objective of the visit was to provide practical exposure and hands-on experience in MIG Welding and Metrology, Measurement and Maintenance (MMM) Lab operations. The Training was attended by a total of 34 students, comprising 23 second-year and 11 third-year students. The program was conducted under the guidance of HIA staff and lab in-charges, providing students with an industry-oriented learning experience.

Faculty & Industrial Mentors:

- HIA MMM Lab In-charge: Mr. Arul Thambi
- MIG Welding In-charge : Mr. Hemachandran

Their expert supervision and interactive sessions were instrumental in helping students understand practical applications of welding technology and modern manufacturing techniques.

Objectives of the Visit

- To familiarize students with MIG Welding processes and industrial safety.
- To understand the use and calibration of metrology instruments.
- To explore material testing methods used in the MMM lab.
- To connect academic concepts with real-world industrial practices.

Key Learning's:

MIG Welding,

- Working of Gas Metal Arc Welding (GMAW) equipment.
- Use of shielding gases, filler materials, and parameter settings.
- Real-world applications in automotive and fabrication industries.
- Safety measures and defect detection in welding.



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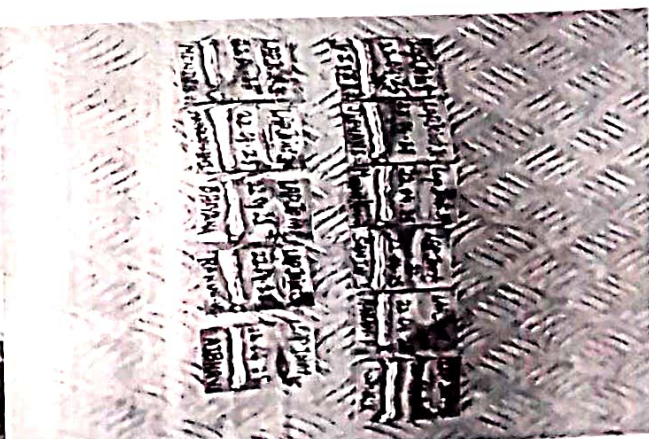
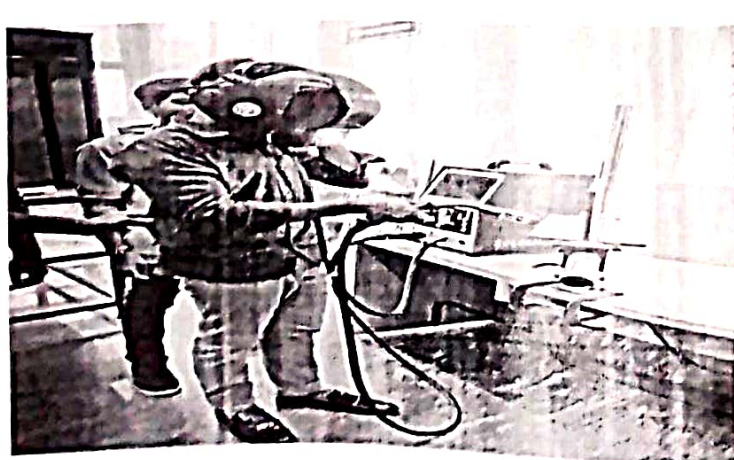
MMM Lab,

- Practical use of instruments like micrometres, Vernier calipers, height gauges, etc.
- Material property testing – Hardness (Brinell, Rockwell), tensile strength, and metallographic analysis.
- Overview of CNC machines and automated processes.

Outcome of the Training

The industrial training greatly enriched the students' understanding of mechanical concepts through real-time exposure. Students gained:

- Hands-on skills in welding techniques.
- Better awareness of industrial standards and quality control.
- Confidence in using measuring and testing equipment.



We also thank Dr. B Shadaksharappa Principal, Dr. R. Arunkumar COO and Dr. Balaji V, Head of the Department for motivating the students

V. Pr
Talent Enablers Coordinator
29/4/25

03/05/2025

W. Balaji
HOD/Mechanical
29/4/25