

Department of Mechanical Engineering

Report on Add-on Lecture on “Advanced Manufacturing Process”

Event Overview:

The Department of Mechanical Engineering organised an add-on lecture titled “**Advanced Manufacturing Process**” on 08 June 2026, from 10:00 AM to 12:00 PM, in Seminar Hall-1. A total of 70 students from the 4th semester of Mechanical, Aerospace, and Aeronautical Engineering departments attended the session. The lecture was delivered by Mr. Vinod A.R., Scientist-D and Group Head for Additive Manufacturing at CMTI, Bangalore.



Mr Vinod A. R. is presenting the add-on lecture to students

The event commenced at 10:00 am with a welcome speech delivered by Dr Shrinivas L Gombi, Dean (Academics) & HOD (Mech), and Dr Namrata B, Assistant Professor, Mechanical Engineering Department, who gave an introduction of the guest.



Students attending the add-on lecture

Mr. Vinod A. R commenced his presentation by outlining the development of advanced manufacturing processes, highlighting various techniques involved and illustrating their applications with real-world examples. Students gained valuable insights into the fundamental and advanced concepts of manufacturing systems, enhancing their understanding of the subject. The real-world examples provided by Mr. Vinod A. R helped bridge the gap between theoretical knowledge and practical applications. This session also encouraged students to explore emerging technologies and their role in modern manufacturing systems.

Objectives of the Event

- To provide fundamental and advanced knowledge of modern manufacturing techniques, including additive manufacturing, CNC machining, and precision engineering.
- To expose participants to the latest trends and emerging technologies in advanced manufacturing industries.
- To bridge the gap between theoretical concepts and real-world industrial applications.



- To enhance understanding of automation, robotics, and digital manufacturing (Industry 4.0).
- To develop awareness of sustainable and cost-effective manufacturing practices.
- To improve participants' skills in design for manufacturability (DFM) and process optimisation.
- To encourage innovation and research-oriented thinking in advanced manufacturing domains.
- To provide insights into career opportunities and skill requirements in the manufacturing and production industries.

Outcomes and Impact

- Participants gained a clear understanding of modern manufacturing technologies, including additive manufacturing, CNC machining, and Industry 4.0 concepts.
- Enhanced knowledge of practical industrial applications, helping bridge the gap between academic learning and real-world practices.
- Improved awareness of automation, robotics, and digital manufacturing systems used in current industries.
- Developed insights into design for manufacturability (DFM), process planning, and optimisation techniques.

Conclusion

The add-on lecture on Advanced Manufacturing Processes successfully imparted valuable knowledge of modern manufacturing technologies and their industrial



applications. Participants gained deeper insights into emerging trends, enhancing their technical understanding and career readiness. Overall, the event effectively achieved its objectives and encouraged innovation and practical learning.

Report by: Prof. Shivakumar H D, Assistant Professor, Dept. of Mech. Engg.