

**Report on Knowledge Sharing Session “Research Frontiers in Metal Forming and composite materials”**

**Resource Person:** Dr.P.Jayaraj, Professor Mechanical Engineering, NIT, Surathkal & Dr.K.Hariharan, Professor Mechanical Engineering, IIT Madras

**Programme Title:** Research Frontiers in Metal Forming and composite materials

**Date:** 15.07.2026

**Summary**

The session featured two eminent academicians as resource persons: Dr. P. Jayaraj, Professor, Department of Mechanical Engineering, NIT Surathkal, and Dr. K. Hariharan, Professor, Department of Mechanical Engineering, IIT Madras. Their expertise and research experience provided valuable insights into recent developments and emerging research directions in the areas of metal forming and composite materials.

The session focused on the latest research trends in metal forming processes and advanced composite materials, with emphasis on their applications in modern engineering and manufacturing. The resource persons discussed the evolving research landscape, innovative material-processing techniques, and the need for developing materials and manufacturing processes that offer improved strength, durability, lightweight characteristics, performance, and sustainability.

The interaction provided participants with an opportunity to understand the significance of advanced metal forming techniques and composite materials in addressing contemporary engineering challenges. The session also highlighted the role of research and innovation in developing high-performance materials and efficient manufacturing methodologies for applications in sectors such as automotive, aerospace, and other advanced engineering industries.

**Event Poster:**

**MOET** **Dr. MAHALINGAM** **NAAC** **NSRF**  
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**Office of Dean**  
**Research & Innovation**  
**RESEARCH INTEREST GROUP**

**“Materials Design & Manufacturing”**  
**Knowledge Sharing Session**

**Dr. P. Jayaraj**  
Professor  
Mechanical Engineering  
NIT Surathkal

**Dr. K. Hariharan**  
Professor  
Mechanical Engineering  
IIT Madras

**“Research Frontiers in Metal Forming and Composite Materials”**  
**Date & Time: 15.07.2026 @ 2:00 PM**  
**Venue: Mechanical Department Conference Hall**

**Organizer(s): Dr. S.K. Ashok ASP/Auto Mr. M. Padmanaban, AP(SS)/Mech**  
**All are cordially Invited !!!**

**Collaborate, Innovate, Elevate: Research Excellence...** **AY 2024-25**

**Photos taken during the session:**



*S. Prakash*

**Dean R&I**

*A. Senthil*

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*B. Prasad*

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