



Prof Shravan Kumar

From HoD's Desk

Dr. Shravan Kumar

Associate Professor & HOD

Department of Fuel Minerals & Metallurgical
Engineering

Indian Institute of Technology (ISM) Dhanbad

Mob: +91-9771421510, LL: +91-326-223-5948

Email: fmme@iitism.ac.in



Dear Readers,

The seventh edition of our department's monthly newsletter marks a significant milestone as our department's research endeavors by spreading knowledge base by industrial collaborations, invited talks and workshops on emerging topics.

The faculties of the department have also earned recognition for outstanding contributions by getting involved in getting highly competitive PM ECRG projects showcasing the exceptional research output.



Projects and Publications

Prof. Kasturi Sala

Although her work spans various topics including laser welding, oxidation behaviour of alloys, her research is also expanding significantly to other fields of metallurgy and materials science, with a focus on sustainable recycling in the Circular economy.

Project Title: Development of an Advanced Twin Roll Casting (TRC) System for Minimizing Segregation in Aluminum and Magnesium Alloys: Advancing Sustainable Recycling in the Circular Economy

**Funding Agency: TeXMIN
Budget (49.3 Lakhs Approx.).
Role: Principal Investigator**



Publication:

1. Girendra Kumar, **Avanish Kumar**, Gaurav Nandan, Shreya Mukherjee, Ashok Kumar, Himadri Nandan Bar: *Monotonic deformation behavior of SA333 Gr-6 steel: Dynamic strain aging*: International Journal of Pressure Vessels and Piping 126 (2025).

External Outreach

Prof. Avanish Kumar visited Bradken India Private Limited, located in Coimbatore, Tamil Nadu. Bradken is a global manufacturer and supplier of innovative wear-resistant products and solutions for mining industries. The company specializes in high-quality castings, ground-engaging tools, and mill liners designed to enhance productivity and durability in heavy industries. Prof. Kumar had an industrial tour and a meeting with their R&D team to explore the possibilities of collaborative research with IIT(ISM) Dhanbad.





Outreach Activities

Prof. Raj Kumar Dishwar, assistant professor in the Fuel, Mineral, and Metallurgy Department of IIT (ISM) Dhanbad, was invited as the guest speaker Maharana Pratap University of Agriculture and Technology, Udaipur. He further extended his discussion for collaborations and projects in future.



Industrial collaboration

Prof. Raj Kumar Dishwar also visited Hindustan Zinc Limited, Debari, Udaipur for collaboration work in the area of recovery of Critical Minerals from the plant wastes. He also interacted with the industrial experts of how to enhance the waste to wealth by developing various strategies adopted in industrial practices.



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Head of the Department

Editors

Dr. Kasturi Sala
Assistant Professor
Dr. Subhendu Mishra
Assistant Professor (visiting)

Student Editor

PSS Darshan

Contact us:

fmme@iitism.ac.in

+91-326-223-5948

fmme.iitism.ac.in/

