



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद Indian Institute of Technology (Indian School of Mines), Dhanbad

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PRESS-RELEASE

Centenary Lecture on Advanced Manufacturing Delivered by Dr. Jan Wegner at IIT (ISM) Dhanbad

The Department of Fuel, Minerals & Metallurgical Engineering (FMME), **Indian Institute of Technology (ISM) Dhanbad**, successfully organized a Centenary Lecture under the *FMME Centenary Lecture Series* on February 25, 2026.

The lecture was delivered by **Dr. -Ing. Jan Wegner**, Group Leader for Metal Additive Manufacturing at the University of Duisburg-Essen, Germany, on the topic “*Advanced Manufacturing Research at University Duisburg-Essen: Additive Manufacturing as an Enabler for Novel Materials and Designs.*” The session was held at 11:00 AM in the Seminar Hall, 2nd Floor, FMME Department, and witnessed active participation from faculty members, research scholars, and students.

In his lecture, Dr. Wegner highlighted how additive manufacturing has evolved beyond enabling intricate geometries to becoming a powerful tool for developing novel material concepts suited for structural and functional applications. He emphasized the critical importance of understanding the interrelationship between material composition, process parameters, and resulting properties to unlock the full potential of advanced manufacturing technologies.

Drawing upon selected project examples from the University of Duisburg-Essen, one of Germany’s largest universities with approximately 38,000 students from over 130 countries, he provided insights into cutting-edge research in metal additive manufacturing. He also offered a practical overview of how research is structured at UDE and discussed avenues for student involvement through thesis projects, research assistantships, and collaborative research initiatives.

Dr. Wegner, who is currently visiting Dhanbad under the PECFAR fellowship sponsored by IGSTC, elaborated on his research focus areas, including amorphous metals, diamond-reinforced metal matrix composites, in-situ monitoring, compliant mechanisms, metamaterials, and post-processing of additively manufactured components.

The lecture stimulated engaging discussions and interactive exchanges between the speaker and participants, fostering academic dialogue on future collaborations in advanced manufacturing research.

The event forms part of the ongoing Centenary Celebrations of IIT (ISM) Dhanbad, marking 100 years of academic excellence and reaffirming the institute’s commitment to global academic partnerships and frontier research in engineering and technology.

Rajni Singh

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