

**... all round development
of the personality is
possible only through
education ...**



सत्यमेव जयते

Ministry of Education
Government of India

NO COURSE FEE FOR REGISTRATION

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“Current Trends in Metal Additive Manufacturing”

A twelve-day online refresher program has been designed for teachers in working higher education seeking to update their knowledge on the latest advancements in Metal Additive Manufacturing (AM), also known as 3D metal printing. The course will cover a wide range of topics, from fundamental principles to cutting-edge technologies and applications.

The program will provide a comprehensive understanding of the principles and processes of Metal Additive Manufacturing. The participants will learn about the latest advancements in materials, technologies, and applications in Additive Manufacturing.

A TWELVE DAYS FACULTY DEVELOPMENT PROGRAMME

To be held

7th to 18th JULY 2025

Organized by

**INDIAN INSTITUTE OF
TECHNOLOGY (ISM)
DHANBAD**

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Programme Coordinator

Prof. Amitava Mandal

Department of Mechanical Engineering

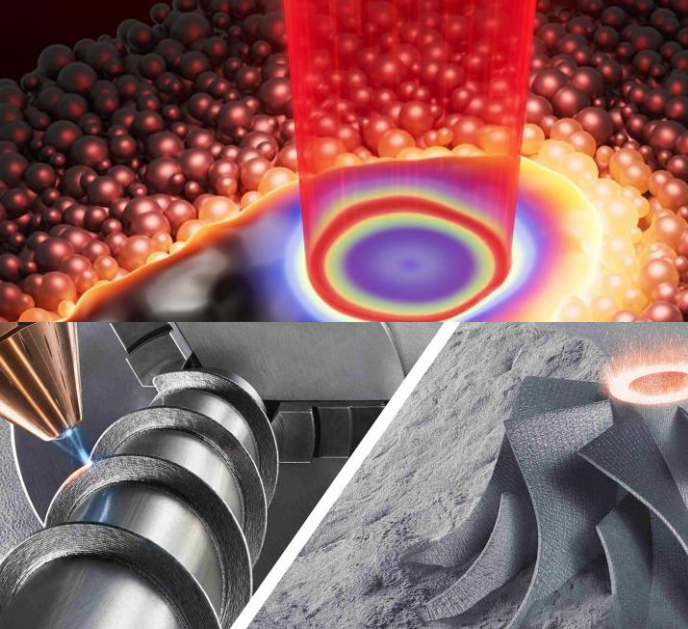
Indian Institute of Technology (ISM) Dhanbad

Dhanbad - 826004, Jharkhand, India

Phone:- + 91 9471191826

amitava@iitism.ac.in.





LAST DATE OF REGISTRATION: 05.07.25

ONLINE MODE: NO COURSE FEE

How to register

1. The participants should first register at <https://mmc.ugc.ac.in/> using their email ID.
2. Use the Login credentials received over the registered Email Id to LOGIN as PARTICIPANT.
3. From the Dashboard click on "Apply for Other Programmes".
4. Click on Apply for and Select "Refresher Course".
5. Select Centre & Programme Date: IIT Dhanbad (ISM) (Jharkhand) (07/07/25 - 18/07/25)

6. Fill in the required details like Your Subject Area Specialization; Year of Joining; Teaching Experience and others
7. Click on "Upload NOC" button and upload the NOC duly signed and approved by the Head of your Institution by clicking on the 'Choose File' Button.
8. Click on Submit button.
9. Last date to register is 05.07.2025, but please register well in advance to avoid last minute rush.
10. The participants will get a confirmation Email after registration.

Eligibility Criteria: as per MMTTP guidelines

MMTTP Information: https://www.ugc.gov.in/pdfnews/2241074_MM-TTP-Information-Brouchure.pdf

MMTTP portal user guide: <https://mmc.ugc.ac.in/S/MMTTP%20User%20Manual%20Participants.pdf>

Objective & Scope

The primary objective of this twelve-day refresher program is to equip teachers with the latest knowledge and understanding of Additive Manufacturing (AM) technologies, their principles, applications, and impact across various sectors. This course aims to enable teachers to effectively integrate AM concepts into their existing curricula, develop innovative teaching methodologies, and create engaging learning experiences for students. Upon successful completion of the program, all participants will get a comprehensive understanding of the principles and processes of Metal Additive Manufacturing and its research trends.

Course content in brief

Introduction to AM processes (e.g., Powder Bed Fusion, Directed Energy Deposition).

Materials science for AM (metals, alloys, and their properties).

Design for Additive Manufacturing Principles.

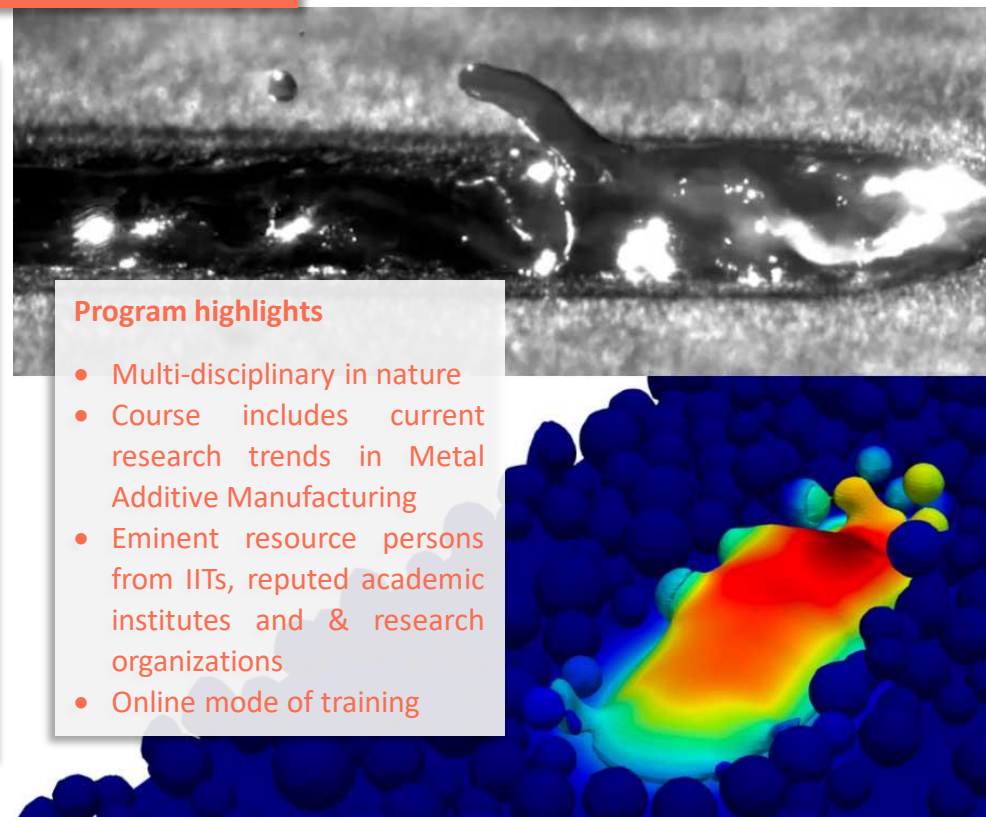
High-performance AM systems and technologies.

Artificial intelligence and machine learning in AM.

Multi-material and hybrid manufacturing.

Program highlights

- Multi-disciplinary in nature
- Course includes current research trends in Metal Additive Manufacturing
- Eminent resource persons from IITs, reputed academic institutes and & research organizations
- Online mode of training





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ABOUT THE DEPARTMENT

The Department of Mechanical Engineering started the journey in 1999, and successfully completed 25 years with excellence. Presently, the department is the largest in the institute having 45 faculty members. The department offers two UG courses, one in Mechanical Engineering and another in Mining Machinery Engineering; three PG course: Thermal, Design and Manufacturing. Faculty members of the department have guided more than 250 PhD students so far.

For further details, please visit:
<https://www.iitism.ac.in/departments-of-mechanical-engineering>

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ABOUT THE INSTITUTE

Indian Institute of Technology (ISM) Dhanbad, earlier known as Indian School of Mines Dhanbad. The Indian School of Mines was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. In 1967 it was granted the status of a deemed to be university under Section 3 of UGC Act, 1956. In 2016, ISM Dhanbad has got the status of IIT. Since its establishment, IIT(ISM) Dhanbad has undergone considerable expansion of its activities, and presently it can be considered as a total technology education institute. At present, the Institute has 17 departments and several centres, which are equipped with all necessary infrastructure and worldclass faculties to undertake all kinds of fundamental and applied research problems.

CURRENT TRENDS IN METAL ADDITIVE MANUFACTURING

Under the aegis of
Malaviya Teacher Training Programme

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7th - 18th JULY 2025

ONLINE MODE