



Malaviya Mission Teacher Training Programme (MMTTP)

Indian Institute of Technology Mandi
Kamand, Mandi, Himachal Pradesh

06 Days Interdisciplinary STC

On

Advancements in Additive Manufacturing: Processes, Materials, and Applications

(Online Mode)

February 16 – February 21, 2026

About the Course:

Additive Manufacturing (AM), commonly known as 3D printing, has emerged as a transformative manufacturing paradigm enabling the fabrication of complex, customized, and high-performance components that are difficult or impossible to produce using conventional manufacturing routes. Rapid advances in AM processes, materials, digital design tools, and post-processing techniques have significantly expanded its adoption across aerospace, automotive, biomedical, energy, tooling, and consumer product sectors.

This **six-day online Short Term Programme** is designed to provide participants with a **comprehensive and up-to-date understanding of advancements in additive manufacturing**, covering **process fundamentals, materials development, structure–property relationships, applications, and emerging research directions**. The programme integrates **theoretical concepts, practical insights, computational aspects, and illustrative demonstrations**, enabling participants to connect fundamental principles with real-world engineering practice.

Special emphasis will be placed on **metal additive manufacturing**, alongside **biomedical and bioimplant applications**, **advanced and hybrid AM techniques**, and **digital and computational frameworks** supporting AM process optimization and design.

Participants Eligibility Criteria

Faculty members working in universities and colleges that are included under Section 2(f) of the UGC Act. The teachers of colleges that do not yet come within the purview of Section 2(f), but have been affiliated to a university for at least three years, will be permitted to participate in the courses. These conditions apply only to Residential Training Programmes/Courses.

Application/Registration Procedure

- The participants should first register at <https://mmc.ugc.ac.in/> and create an account.
- After logging in as participant using User ID and Password, from the dashboard, click on “Apply for Guru Dakshta (FIP), Refresher Course and Short-Term Programme/Faculty Development Programme”, next start filling the application form.
- In the application form, select “Apply for” as “Short Term Programme (residential)”, next give details of your earlier participation in FIP, next select “Programme Name & Centre Name” as “Indian Institute of Technology Mandi”, later fill in the remaining items and submit the application form.

Salient Features of the Course

- The programme will be conducted over **6 working days**, comprising **36 contact hours** (six hours per day, six days a week).
- The course will comprise **24 expert lectures**, along with discussions, illustrative sessions, and academic interactions.
- **Participant evaluation** will be carried out through a combination of **MCQ-based assessments**. Successful completion of the programme will be considered towards the **Career Advancement Scheme (CAS)** requirements as prescribed by the **UGC**.
- **No application or registration fee** will be charged for participation in the programme.
- A **Certificate of Successful Completion** will be awarded to participants who attend all the sessions and satisfactorily qualify the assessment process.

This programme is designed to help participants **update their knowledge of current research trends and emerging practices** in **additive manufacturing**, while strengthening their **academic, research, and professional competencies**. Upon completion of the course, participants will be better equipped to **independently conduct high-quality research, integrate advanced topics into teaching, and critically analyse contemporary developments in the field**.

Programme Director	Resource Person(s)
Prof. Atul Dhar	Dr. Sandeep Sahu Dr. Suntharavel Muthaiah V.M.

Important Dates	Contact
Application Deadline Date: 9th February, 2026	mmttp@iitmandi.ac.in
Programme Start Date: 16 th February, 2026 End Date: 21 th February, 2026	

Relevant Important Links:

- **Step-by-Step Process:**

https://docs.google.com/document/d/1FXBxCPL4fUv82gs38x_eJYyk_7YCqvY6/edit?usp=sharing&ouid=107195621035338052957&rtpof=true&sd=true

- **User Participant Manual Link:**

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

- **MMTTP Website:** <https://mmc.ugc.ac.in/>