

Joint Online Faculty Development Programme

“Additive Manufacturing and 3D Printing (AM & 3DP)”

July 18-29, 2022

Organized by

IIT Roorkee, MNIT Jaipur, NIT Patna & PDPM IIITDM Jabalpur



Course Contents

Overview and basics of Additive Manufacturing and 3D printing, Need, Basic Principles and Steps in AM & 3DP, Process chain, Classification of Additive manufacturing processes, FDM and SLS Process, Applications and case studies, Materials for AM, Design for manufacturability.

Data preparation, tessellation algorithms, STL File Problems, STL File Manipulation and Repair Algorithms, STL file reading, repairing, slicing, contour generation, path planning, G&M code generation, open source software for 3D printing, Machine Demonstration, Part printing, Recent research trends in AM & 3DP, interdisciplinary aspects in AM & 3DP, Bio Medical applications. Development of 3D printer.

Speakers

- Dr. Pulak Mohan Pandey, IIT Delhi
- Dr. Prashant K. Jain, IIITDM Jabalpur
- Dr. Pavan K. Kankar, IIT Indore
- Dr. Amit Singh, MNIT Jaipur
- Dr. Mohammad Taufik, MANIT Bhopal
- Dr. Narendra Kumar, NIT Jalandhar

Venue and Time

Workshop will be conducted online using Zoom platform, daily four hours, in two sessions from 3:30pm onwards

Principal Coordinator

Prof. Prashant K. Jain

PDPM IIITDM Jabalpur

Email: pkjain@iiitdmj.ac.in

Phone: 0761-279 4415, 94258 00310 (M)

Programme Features

- Course will be beneficial to beginners as well as practitioners of different domain intended to use AM and 3D Printing
- Teaching methodology will be adopted in such a manner so that all can cope up even those who do not possess any prior knowledge of AM & 3D printing, programming, irrespective of their Branch of study

Registration Details

Registration link – Please fill registration form using following link

<https://forms.gle/Ky7UoqUvmBS7GwsZ6>

Indian Participants –

Academic (student/faculty): Rs. 500

Industry Participants and Others : Rs. 1000

Foreign Participants –

SAARC/African countries

Academic (student/faculty): - Rs. 500/-

Others - Rs. 1000/-

Rest of the countries

Fee - US\$ 60 or British £ 50

Last Date for Registration : July 11, 2022

Online payment details

Beneficiary Name : EICT Academy

Bank Name: INDIAN BANK

A/C No. : 50302042708

IFSC Code: IDIB 000 M694

Branch: Mehgawan, IIITDM Branch



Contact Us

pkjain@iiitdmj.ac.in academy@iiitdmj.ac.in,

Cell No: 9340841848

Web: <https://www.iiitdmj.ac.in/mip.iiitdmj.ac.in/>