

# Joint Online Two Weeks Certification Programme

## ***MATLAB Programming for Additive Manufacturing and 3D Printing (MPAM)***

***September 20 - October 01, 2021***

organized by

**PDPM IITDM Jabalpur, MNIT Jaipur and IIT Guwahati**



### ***Course Contents***

- MATLAB User Interface, Basic Operations
- Basics for decision making
- Debugging a program, Algorithm development and Problem formulation
- Building Graphical User Interface (GUI), Developing GUI for Input/output functions
- App development in MATLAB, Generating Executable Files and Stand-Alone Applications
- Basics of Rapid Prototyping/Additive Manufacturing/3D printing, Need, Basic Principles and Steps in RP/AM/3DP, Process chain, Classification of Additive manufacturing processes
- FDM and SLS Process, Applications and case studies, Data preparation, STL File Problems
- G&M code generation, open source software for 3D printing, Machine Demonstration, Part printing, Recent research trends in RP/AM/3DP, Bio Medical applications

### ***Features***

- Instructor led online training sessions
- 3-4 hours per day
- Rigorous Hand- on (practice) sessions
- Experts/Speakers from IITs, NITs, IIITs and industry
- Specific industry-led sessions
- Opportunities to connect with expert for research orientation

### ***Joint Principal Coordinator***

Prof. Ratnajit Bhattacharjee, IIT Guwahati

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***Last Date to apply: September 14, 2021***

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### ***Registration Details***

**Registration link -**

<https://forms.gle/dFZierDDsk5p23L96>

**Registration fee**

Faculty/students – Rs. 500/-

Others – Rs. 1000 /-

Foreign participants – Rs. 4000/-

**Online payment details:-**

Bank Name: State Bank of India

A/C Name: IIT Guwahati R and D E and ICT Academy

Account No.: 36071160089

IFSC Code: SBIN0014262

Bank Name: State Bank of India

Bank Address: IIT Guwahati, GHY- 39