

ABOUT JUET

Jaypee University of Engineering and Technology was established in the year 2003 with the name Jaypee Institute of Engineering & Technology based on the MOU signed between Jaiprakash Sewa Sansthan and the Government of Madhya Pradesh with an aim of becoming a Center of Excellence in Engineering and Technology. The Government of MP vide gazette extra ordinary no. 3 of 2010 has established Jaypee University of Engineering and Technology (JUET), Raghogarh, Guna as a private university in the State of MP under the provisions of MP Niji Vishwavidyalaya Adhiniyam 2007 on 10 April 2010. It has been approved by UGC under section 2(f) of UGC Act ,1956. JUET has been accredited with grade 'A' by NAAC.

ABOUT THE DEPARTMENT

Mechanical Engineering Department was established in 2008 to play a pivotal role in developing high caliber manpower in the frontier areas of manufacturing. Departmental labs are well equipped with basic as well as state-of-the-art laboratory facilities, such as additive manufacturing machines (EOSINT P395, ZPrinter 450, software (Magics RP, RP Tools); CIM System, CNC Lathe, CNC Milling, 5 & 6 axis robots, CMM, AS/RS, Auto. Assembly St., AGV, PLC kit, simulator, different types of sensors, EDM Drill m/c, Simulation software for machining as well as CAD/CAE software such as Abaqus, Pro/E, Solidworks etc..

OBJECTIVES

The objective of this workshop is to disseminate the state-of-the-art of additive manufacturing (AM) technology to technical fraternity. This workshop will provide participants with an excellent opportunity to comprehend the basic and advanced concepts of AM technologies and their diverse applications in society especially in automotive, aerospace and medical sectors.

TOPICS TO BE COVERED

Lecture Sessions (Online mode):

- ◆ Introduction and Classification of Additive Manufacturing (AM)
- ◆ STL Repairing and Slicing Algorithms
- ◆ Metal Additive Manufacturing
- ◆ Design for Additive Manufacturing (DfAM)
- ◆ AM in Automotive, Aerospace and Construction Industries
- ◆ Medical 3D Printing and Bio Printing

Lab Sessions (Online mode):

- ◆ CAD modeling, conversion to STL and repairing STL file in MagicsRP software
- ◆ Pre processing, part fabrication and post processing on EOSINT P395 and ZPrinter 450
- ◆ Part fabrication on FDM printer (CAD model preparation, Repairing, Fabrication and Post processing)

National Workshop

on

**ADDITIVE MANUFACTURING
(NWAM - 2021)**

April 15 - 17, 2021



Accredited with Grade 'A' by NAAC

Organized by

Department of Mechanical Engineering
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ENGINEERING AND TECHNOLOGY

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WHO CAN APPLY

3D Printing/Additive manufacturing is becoming popular not only in industries but almost every part of the society. The Workshop is interdisciplinary in nature and can be attended by:

- ◆ Faculty members
- ◆ Research scholars, PG and UG students
- ◆ Professionals/ Executives from industry, corporate, government organizations
- ◆ Hobbyist/budding researchers

REGISTRATION

Limited seats are available in each category. Registration will be done on first come first serve basis.

Registration deadline: **Sunday, April 11, 2021**

[Link for registration:](#)

<https://forms.gle/ch8cdVFfVF2nHzve9>

REGISTRATION FEES

There is no registration fees. However, E-certificates shall be issued to only those participants who attend the program with minimum 70% attendance and submit feedback at the end of the workshop.

PATRON

Prof. J. S. P Rai, Vice Chancellor, JUET Guna

VICE PATRON

Prof. P. K. Singh, Dean (A & R), JUET Guna

Brig. Arjun Rawat (Retd.), Registrar, JUET, Guna

CHAIRMAN

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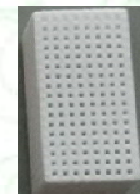
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KEY SPEAKERS

- ◆ Prof. Santosh Kumar, IIT, BHU
- ◆ Prof. Puneet Tandon, IIITDM, Jabalpur
- ◆ Prof. Ravi Kumar Dwivedi, MANIT, Bhopal
- ◆ Prof. Sarang Pande, Marwadi University, Rajkot
- ◆ Dr. Yashwant Kumar Modi, JUET, Guna
- ◆ Dr. Mohammad Taufiq, MANIT, Bhopal
- ◆ Dr. Ankit Nayak, Banasthanali University, Vanasthali
- ◆ Mr. Rahul Verma, 3Dexter Pvt. Ltd., Delhi

WORK at AM LAB, JUET





Jaypee University of Engineering and Technology, Guna, MP

Department of Mechanical Engineering



National Workshop on Additive Manufacturing (NWAM-2021) April 15 – 17, 2021

Workshop-Schedule

Date/Time	10:00 AM -11:30 AM	11:30 AM - 01:00 PM	01:00 PM- 02:30 PM	02:30 PM- 03:30 PM	03:30 PM- 04:00 PM
April 15, 2021	Introduction to AM and 3D printing Prof Ravi Kumar Dwivedi, MANIT, Bhopal	STL file slicing algorithm Prof. Sarang Pande, Marwadi University	Lunch Break	Aerospace/automotive/medical and other applications of AM Dr. Yashwant Kumar Modi JUET, Guna	
April 16, 2021	Metal Additive Manufacturing Prof. Santosh Kumar, IIT BHU	Data preparation and FEA of human body part Dr. Ankit Nayak, Banasthali University		Live demo, repairing of STL file and working of ZPrinter450 and EOSINT P395 Dr. Yashwant Kumar Modi JUET, Guna	
April 17, 2021	Research scope in 3D printing and AM Prof. Puneet Tandon IIITDM, Jabalpur	Design for Additive Manufacturing (DfAM) Dr. Mohammad Taufik, MANIT, Bhopal		Live demo, working of FDM printer Mr. Rahul Verma, 3Dexter Pvt. Ltd.	Feedback and Valedictory function