

## **Centre for Continuing Education of NIT Warangal:**

The Centre for Continuing Education of NIT Warangal organizes Continuing Education Programs and Workshops in the frontier areas of Science, Engineering, Technology, Management, Humanities, Social Science and socially relevant themes on self-financing basis in three different modes: (i) At NIT Warangal by NIT Warangal (ii) At NIT Warangal in collaboration with other Organizations (iii) By NIT Warangal Faculty at the Host Organization/Institute.

### **About NIT Warangal:**

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 13 Departments offering eight undergraduate and 32 post-graduate programs besides doctoral program. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure, state of the art library, seminar halls, guest houses and laboratories.



## **About: Vardhaman College of Engineering**

The Department of Mechanical Engineering was established in the year 2006 at the time of the inception of Vardhaman College of Engineering. The Department offers one Under Graduate programme, B.Tech in Mechanical Engineering, with an intake of 60 and one Post Graduate programme, M.Tech with specialization in Engineering Design with an intake of 18 seats. The Department has well-equipped laboratories with research facilities and is actively involved in many fabrication and research projects in collaboration with leading R&D organizations.

The B.Tech Mechanical Engineering Programme has been accredited by the NBA in 2009, 2015 and 2018. Department has received research grants from AICTE, RPS, UGC and DRDO.

For any query regarding this program, please contact the Coordinators.

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## **Center for Continuing Education**

### **Online Continuing Education Program on “Challenges in 3D Printing and Post Processing”**

**06<sup>th</sup> March to  
12<sup>th</sup> March, 2023**

### **Call for Registration and Participation**

#### **Coordinators**

Dr G. Venkatesh

Dr. S. Venukumar

Dr. Manjaiah M

#### **Organized by**

**Department of MED, NIT  
Warangal &**

**Dept. of ME, VCE Hyderabad**

**In association with the**

**Center for Continuing Education, NIT  
Warangal**



## Overview of the FDP:

3D printing is the latest technological progress in the fields of manufacturing, design, and building. Also known as additive manufacturing, in which a 3D object is manufactured by depositing material layer-by-layer in accordance with a digital model prepared using any CAD software. The object may be printed using a variety of printing materials, including metals, ceramics, polymers, powders, filaments, and paper. There are several 3D printing methods, and this FDP gives an overview of these technologies. Also, a number of post-processing methods are used to enhance the surface quality of the different additively prepared components.

## Objectives:

- The objective of the FDP is to introduce different 3D printing process for social relevance applications.
- The workshop would assist participants understand the challenges of metal 3D printing, including high costs, increased complexity, and component quality.
- To provide a thorough understanding of several post-processing methods.
- This FDP also focuses on the exploration of several industrial applications in the Aerospace, Automotive, Medical, and Industrial Goods industries.

## Topics to be covered:

- *3D Printing: The Technologies.*
  - *SLA Process*
  - *FDM Process*
  - *Powder Bed Fusion Technologies*
  - *Direct Energy Deposition*
  - *Metal Binder Jetting*
  - *Binder Jetting*
  - *Material Jetting*
- *Various post processing Techniques.*
- *Hands on 3D Printing.*
- *Industrial Applications*
  - *Aerospace*
  - *Automotive*
  - *Medical*
  - *Industrial components*
- *Overview of Bio printing ideas*

## Resource Persons:

Eminent faculty from IITs, NITs, DRDO, ARCI, Industry and Senior Faculty from different departments of NIT Warangal, will deliver lectures and conduct hands on sessions.

**Registration is open to:** Faculty members in all disciplines of Engineering, Sciences, Mathematics, Life sciences, Management, Post-Doctoral Fellows, Research Scholars, PG students, UG students who have an aptitude to work in the areas of additive manufacturing.

**How to Apply:** Eligible candidates may apply by filling the following google-form with payment proof on or before **20<sup>th</sup> Feb, 2023.**

<https://tinyurl.com/4pa7kcrw>

## Registration

Category	Amount
Faculty, Post-doctoral fellows , Research Scholars, PG students, UG students	<b>Rs. 500 /-</b>
Industry participants	<b>Rs. 1000/-</b>

Registration fee may be remitted Online through NEFT to the Bank account given below. Proof of remittance of the requisite registration fee (with transaction number if online transaction) shall be uploaded in the google form.

<b>Account Number</b>	<b>62403680215</b> (Savings Account)
<b>Account Name</b>	<b>Center for Continuing Education NITW</b>
<b>Bank Name:</b>	<b>State Bank of India (SBI)</b>
<b>Branch:</b>	<b>NIT Warangal</b>
<b>IFSC Code:</b>	<b>SBIN0020149</b>

## Confirmation of Participation:

On receipt of the google form and fee remittance receipt, participants will be sent confirmation of their participation through email by **20<sup>th</sup> Feb, 2023**. As the program is conducted online, the number of participants in the workshop is limited to 100. *Candidates are advised to register early to avoid disappointment.*

<https://tinyurl.com/4pa7kcrw>