

### Advisory Committee:

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Director, R & D, VNRVJMET

#### Organizing Committee:

##### Convenor:

**Dr. G. SRINIVASA GUPTA**

HOD, ME, VNRVJMET

##### Coordinator:

**Dr. YEOLE SHIVRAJ NARAYAN**

Professor, ME

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##### Co-coordinators:

**Mr. K. JAYA PRAKASH**

**Mr. T. MALYADRI**

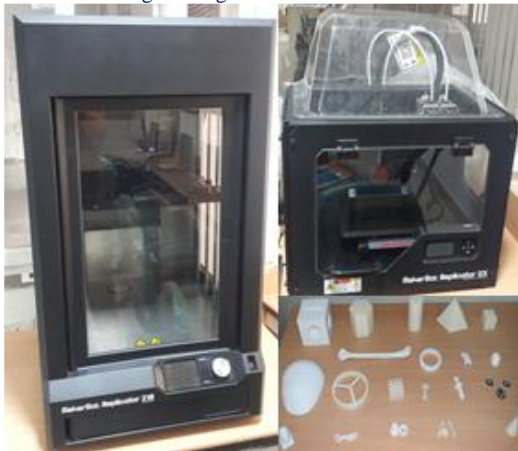
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All the faculty and staff members of department of  
Mechanical Engineering.



### About VNR VJMET:

Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology [VNRVJMET], an autonomous institute sponsored by Vignana Jyothi Society, was established in the year 1995 in the state of Telangana. Institute is affiliated to Jawaharlal Nehru Technological University Hyderabad (JNTUH) and is granted Autonomous status from the academic year 2012 by University Grants Commission (UGC) New Delhi. The institution is conferred with the honor of “College with Potential for Excellence” (CPE) by UGC in August 2016. Institute has received accreditation from National Assessment and Accreditation Council (NAAC) with Grade A++ with a CGPA of 3.73 on 4 point scale in 2018. National Board of Accreditation (NBA) has re-accredited B.Tech. - UG – CE program for 5 years in 2016 and UG – CSE, ECE, EEE, EIE, IT, ME programmes for 3 years in 2019. Institute has secured 127<sup>th</sup> rank in engineering category of NIRF India 2020 rankings. Institute has been recognized as ‘AICTE Research Centre’ by the AICTE. Recently, Institute received I-Gauge ‘Diamond’ rating from QS. The institute has 9 departments and offers 26 academic programs both at UG and PG level. The institute offers academic programs with innovative curriculum, advanced research in cutting-edge technologies and societal engagement through outreach activities.

### About ME Department:

The Department of Mechanical Engineering was established in 1995 with an intake of 60 in B.Tech. Mechanical Engineering programme, which was increased to 120 in 2010. It also offers 2 M.Tech. programmes in Advanced Manufacturing Systems and CAD/CAM with an intake of 18 each. Department is recognized as ‘Research Center’ by the JNTU Hyderabad. The department has a team of 47 highly experienced faculty and staff, out of them 18 are doctorates. It has fully equipped workshop and up-to-date laboratories like Machine Tools, Thermal Engineering, Heat Transfer, Metallurgy and Instrumentation etc. The department also has sophisticated CNC, CAD, CAM labs with high configuration workstations and licensed softwares like AUTOCAD, CATIA, ANSYS, FLEXSIM, EDGE CAM, MASTERCAM, ADAMS, MATLAB, MINITAB, AUTOMOD, Automation Studio etc. The department also has a Center of Excellence in Joining Technologies. Department has received grants from various funding agencies for carrying out research projects. As on date, 09 projects have been completed and 03 are ongoing. Department has an exclusive facility for emerging technology on 3D Printing – consisting of **02 Makerbot FDM Printers** and **01 Artec Scanner**.



## Five Days AICTE Training and Learning (ATAL) Academy Online Faculty Development Program

on

## 3D PRINTING AND DESIGN

February 15 - 19, 2021

### Coordinator

**Dr. Yeole Shivraj Narayan**

Professor

### Co-Coordinators

**Mr. K. Jaya Prakash**

Assistant Professor

**Mr. T. Malyadri**

Assistant Professor



### Organized by

**Department of Mechanical Engineering  
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Ph: 040 - 23042758/59/60  
<http://www.vnrvjiet.ac.in>**

### Overview of the FDP:

3D Printing, colloquially known as Additive Manufacturing (AM) technology, has been recognized as one of the emerging technologies globally. It is breaking down all the barriers in design and manufacturing, and making what was previously impossible, possible for anyone with just a basic understanding of the technology. AM has been used as a design and prototyping tool since its inception, but the focus is now shifting to the production of functional parts and products, such as jet engine parts, hearing aids etc. AM technology is used to create a wide variety of items, including jewelry, toys, sculptures, and other artistic products. It holds the potential for disrupting existing and creating new markets, but the technology is in its relative infancy and it may be years or decades before it reaches levels of confidence comparable to what the industry has with the more familiar conventional manufacturing processes and materials. This Faculty Development Program (FDP) is designed to bring together a peer community focused on the latest trends, products, and real-life experience in this dynamic emerging technology space. The FDP will include case studies by leading manufacturers and presentations by eminent academicians, researchers and leading technology providers along with hands-on on 3D printing softwares.

### Objectives of the FDP:

1. To apprise the participants with the contemporary technologies in 3D printing and their fundamentals.
2. To provide hands-on learning experience to the participants in design and modeling of objects and obtaining the physical prototype through 3D printing.
3. To create awareness among the participants regarding the applications of 3D printing in various sectors.
4. To inspire the participants to offer a course on 3D printing technology at their respective institutions.

### Topics to be covered:

- Introduction to 3D printing processes, tools/equipments and softwares
- CAD modelling for 3D printing
- Pre-processing of CAD data – STL file generation and error rectification
- Selection of print parameters for 3D printing
- Introduction to Reverse Engineering - 3D scanning
- Post-processing: requirement and techniques
- Inspection and testing of product quality
- **Case studies on applications of 3D printing** in Medical/Dental, Automotive, Aerospace, Defence, etc.
- **Demo and Online Practice Session on Design & 3D Printing:** Using AutoCAD, Netfabb, Makerware, Artec Studio etc.

### Resource Persons:

Subject experts from reputed institutions like IITs, NITs, etc., research organizations like DRDO, industry experts, medical professionals and faculty from the host Institute-VNRVJIET who are broadly working in the area of 3D printing and design at research and application level will deliver the lectures and conduct hands-on sessions.

### Eligibility:

The program is open to UG students, PG scholars, Ph.D. research scholars and faculty of Engineering and Polytechnic colleges of AICTE approved Institutions, Bureaucrats / Technicians / Participants from Industry, Medical Practitioners and faculty and staff of host institutions.

### Registration:

- There is **No Registration Fee**.
- Participants are required to register at <https://atalacademy.aicte-india.org> by selecting this FDP.
- Participants will be selected on **First-come First-serve** basis. **Number of seats are limited (Maximum 200)**.
- Selected candidates will be intimated by e-mail.
- Confirmation of participation has to be made by e-mail.
- **Digital certificate** will be issued by the **ATAL Academy** to those participants who have attended the program with **minimum 80% attendance** and scored **minimum 60% marks** in the test.

### Important Dates:

|                           |                   |
|---------------------------|-------------------|
| Last date of application  | <b>22-01-2021</b> |
| Intimation of selection   | <b>26-01-2021</b> |
| Last date of registration | <b>31-01-2021</b> |

### Address for Communication:

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Online Faculty Development Program  
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## 3D PRINTING AND DESIGN February 15 - 19, 2021

### REGISTRATION PROCEDURE

Link:

<https://atalacademy.aicte-india.org/login>

1. Register as a participant → Fill your details
2. Select Workshops → State: **Telangana** → Month: **February** → Thrust Area: **Thrust Areas** → Mode: **Online**
3. Select Institute → **Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology Hyderabad & 3D Printing and Design** → Click on



→ Confirm

For more information, please contact:

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