

## About University

Anna University was established in September 1978 as a unitary type of technical university amalgamating four institutions: the College of Engineering Guindy, the A C College of Technology, the Madras Institute of Technology and the School of Architecture and Planning. All these four institutions each with a long history and distinct characteristics of own, provided a fertile reservoir of resources from which the nascent university has been formed and grown to its present stature. The College of Engineering Guindy, the main campus of the University, is one of the oldest technical institutions in India. Its origin dates back to 1794, which was established as a Survey School by East India Company. The Survey School was first expanded into a Civil Engineering School in 1858 and then upgraded into a college in 1859. The University offers 45 Under-Graduate and 108 Post-Graduate Programmes along with M.Phil, M.S. (By Research) and Ph.D. Programmes. The University receives grants from the state and central governments, national and international agencies, and industrial houses. It has an extensive link with Indian industries, national research laboratories and international universities. This enables the university to keep with new development and emerging technologies.

## About Department

The Department of Manufacturing Engineering (DoME) is a multifaceted, dynamic, quality conscious with a glorious past and continuing saga of success and achievement. Its strength is contributed by highly qualified faculty, brilliant students and state of the art infrastructure via classroom, library, and modern laboratories. It has produced outstanding alumni who lead in education and industry and service sector. Its faculty are involved in research in the field of CAD/CAM/CIM/ROBOTICS, micromachining, electronics manufacturing, 3D printing / Additive Manufacturing and composite materials.

## Organizing Committee

- Chief Patron : Dr. M. K. Surappa  
Vice-Chancellor,  
Anna University,  
Chennai – 600 025.
- Patron : Dr. L. Karunamoorthy  
Registrar,  
Anna University,  
Chennai – 600 025.
- Chair : Dr. D. Sridharan  
Director, CFD  
Dr. I. Arul Aram  
Additional Director, CFD.  
Anna University,  
Chennai – 600 025.
- Co-Chair : Dr. M. Kanthababu  
Professor and Head,  
Dept. of Manufacturing Engg.,  
College of Engineering Guindy,  
Anna University, Chennai, 600 025.

## Venue:

Hall of Guines '68

Department of Manufacturing Engg.,  
CEG, Anna University, Chennai – 600 025.

## Important Dates

- |                              |              |
|------------------------------|--------------|
| Submission of Application    | : 30.08.2019 |
| Intimation of Selection      | : 06.09.2019 |
| Confirmation by participants | : 09.09.2019 |



## FIVE – DAY ATAL WORKSHOP ON **3D Printing and Design**

CO-ORDINATORS

Dr. G. Arumaikkannu,  
&

Dr. A. Suresh Babu,

Department of Manufacturing Engineering,  
College of Engineering Guindy,  
Anna University, Chennai – 600 025.

Sponsored by

AICTE, NEW DELHI

under

**AICTE Training & Learning (ATAL) Academy**



Jointly organized by

**Centre for Faculty Development**

Anna University

&

Department of Manufacturing Engineering,  
College of Engineering Guindy,  
Anna University, Chennai – 600 025.

## ABOUT THE COURSE

In today's era of continuous innovation and demand for shorter product realization time 3D printing is a must know technology. Over the last decade, 3D printing (Additive Manufacturing) gaining spot as an inevitable manufacturing technology in defense, power generation, aerospace, medical and automobile fields. AM empowers the innovators with enormous design freedom and emerges as a key technology for manufacturing customized products.

This workshop will impart knowledge and skills related to 3D printing technologies, design approaches for 3D printing, selection of material and equipment. Participants will also be benefited from hands on experience, knowledge sharing by the industrial and academic experts.

## COURSE CONTENT

- **Introduction 3D printing (Additive Manufacturing)**
- **CAD for Additive Manufacturing**
- **Additive Manufacturing Techniques**  
*SLA, SLS, FDM, LOM, Binder jetting, Material jetting techniques*
- **Additive Manufacturing Applications**  
*Medical, automotive, aerospace, etc.*
- **Materials for Additive manufacturing**
- **Identification of products for AM and process planning**
- **Post Processing techniques**
- **Inspection**
- **Part Quality improvement**
- **Demo of Additive Manufacturing**  
*AM lab visit*  
*AM industry Visit*

## RESOURCE PERSONS

Speakers shall be drawn from various disciplines of different institutions of higher

learning, related industries and R&D organizations of different parts of the country.

## ELIGIBILITY

1. There is no registration fee from any participants.
2. All the faculties & Research Scholar from AICTE approved institutions are eligible for the workshop.
3. No TA/DA will be paid to any participants.
4. Number of participants is limited to 50.
5. Participants will be selected on first-come first-served basis.
6. Selected candidates will be intimated by e-mail confirmations of participation is to be made by email only.
7. Faculty members selected for the programme should get the authorization certificates signed from the principal.
8. The Coordinators decision will be final in the selection of participants.
9. Participants will have to make their own stay arrangements during the five days.

Scanned copy of filled in registration form is to be uploaded to the following link

<https://forms.gle/wLLEmsvpyqLbbFFz5>

## Address for Communication

**Dr. G. Arumaikkannu / Dr. A. Suresh Babu**  
Department of Manufacturing Engineering,  
College of Engineering Guindy,  
Anna University, Chennai-25.

Phone: 044-2365 7712 / 7704

Email: 3dprintingfdp@gmail.com

## REGISTRATION FORM

FIVE – DAY ATAL WORKSHOP  
ON

## **3D PRINTING AND DESIGN**

16<sup>TH</sup> to 20<sup>TH</sup> September 2019

Name:.....

Designation.....

Qualification & Experience.....

Department.....

Institution.....

e-mail id.....

Mobile Number.....

Address:.....

.....

## DECLARATION

I declare that all the details furnished above are true to the best of my knowledge and I agree to abide by the rules and regulations governing the conduct of Five-Day workshop under AICTE Training & Learning (ATAL) Academy.

Date:

Place:

Signature of the Applicant

## AUTHORIZATION CERTIFICATE

This is to certify that ----- is regular employee / Research Scholar of our institutions and is hereby permitted to attend the five days ATAL workshop at Dept of Manufacturing Engg., CEG, AU, Chennai-25

Date:

Place:

Signature of the HOD/Principal

With seal