

## About The ICFAI Foundation for Higher Education (IFHE):

The ICFAI Foundation for Higher Education (IFHE) is declared as a Deemed to be University, under Section 3 of UGC Act. 1956. It has evolved a comprehensive student-centric learning approach consisting of several stages, designed to add significant values to the learner's understanding in an integrated manner, covering relevant knowledge, practical skills and positive attitudes. The University is a member of the Association of Indian Universities (AIU) and Association of Commonwealth Universities (ACU). The IFHE Deemed to be University has ICFAI Business School (IBS), IcfaiTech, Faculty of Science & Technology (FST), Icfai School of Architecture and Faculty of Law (FOL).

## About IcfaiTech, Faculty of Science and Technology (FST):

IcfaiTech, FST offers B.Tech, M.Tech and Ph.D programmes in Mechanical Engineering, Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering. The FST also offers B.Sc and Ph.D courses in Mathematics, Physics and Chemistry.

## About Department of Mechanical Engineering:

The Department of Mechanical Engineering offers an Undergraduate and Post-graduate programs in Mechanical Engineering also offers Ph.D programme. The Department has well qualified and experienced faculty, and good laboratory facilities. Presently the department is handling several R&D projects.

### Chief Patron:

**Dr. J. Mahender Reddy**  
Vice Chancellor-IFHE Hyderabad

### Patrons:

**Dr. V. Panduranga Rao**  
Advisor, ICFAI Group

**Dr. M. Srinivasa Reddy**  
Director, IcfaiTech, FST, Hyderabad.

### Coordinators:

**Dr. A. Manmadha Chary**

**Dr. Rajesh Chollangi**

### Organizing Committee:

Dr. Tharakeshwar Appala  
Dr. T. Srinivasa Rao  
Dr. A Chandra Shekhar  
Dr. M.L.Pavan Kishore  
Dr. Pravat Ranjan Pati  
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Mr. Shaik Himam Saheb

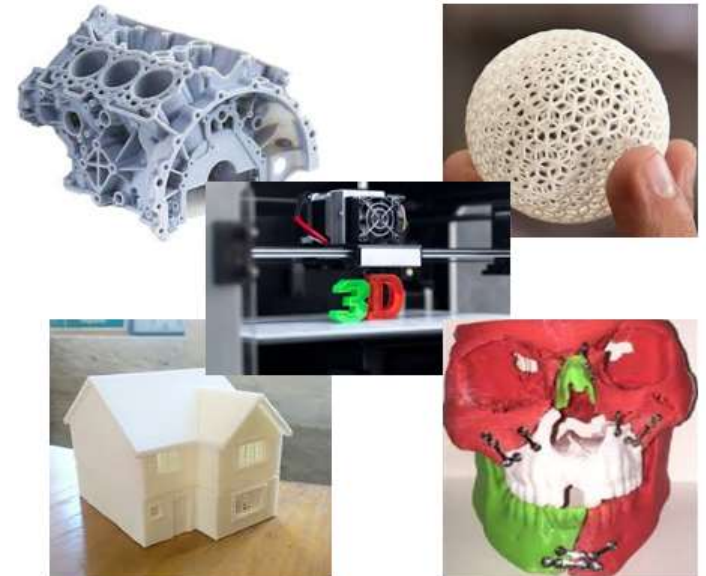
### Contact details:

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## One-Week Short Term Training Programme on

# 3D Printing in Modern Engineering

22<sup>nd</sup> – 26<sup>th</sup> April 2019



### Organized by

Department of Mechanical Engineering,  
IcfaiTech, Faculty of Science and Technology  
IFHE (Deemed-to-be University), Hyderabad,  
Telangana, INDIA-501203

[www.ifheindia.org/icfaitech](http://www.ifheindia.org/icfaitech)

## Overview of the Programme:

**3D printing** is defined by the ASTM F42 committee as the process of joining materials to make objects from 3D model data, usually layer upon layer, as opposed to subtractive manufacturing methodologies. 3D Printing systems use data of computer-aided-design (CAD) software or 3D object scanners to direct hardware to deposit material, layer upon layer, in precise geometric shapes. 3D printing synonyms are Additive Manufacturing, Rapid Prototyping, Additive Techniques, Additive Layer Manufacturing, Layer Manufacturing and Solid Freeform Fabrication. 3D Printing is used to build physical models, prototypes, patterns, tooling components and production parts with materials like plastics, metal, ceramic, glass and composites. In recent years, 3D printing has been developed enough to perform crucial roles in many applications, with the most important ones being manufacturing, medicine, electronics, food industry, architecture, jewelry and custom design.

## Objectives of the Programme:

- To create awareness about the state-of-the-art technologies in 3D Printing.
- To learn the 3D modelling, build-setup preparation and 3D printing through hands-on sessions.
- To enable participants to learn the industrial, real life and pedagogical applications of 3D printing.
- To facilitate the participants to develop low-cost 3D printers to teach engineering concepts.
- To help the participants in completing/guiding the academic project works in 3D printing.

## Resource Persons:

Experts from IITs, NITs and Reputed Institutions/Organizations/Industries who are in the 3D Printing practice will deliver lectures. Following are the key resource persons:

- ✓ Mr. K. Guruprasad Rao, Director & Mentor, Imaginarium, Mumbai.
- ✓ Dr. G. Jagan Reddy, Scientist 'G', DMRL, Hyderabad.
- ✓ Dr. U. Chandrasekhar, Additional Director (Former), GTRE, Bangalore.
- ✓ Dr. Gururaj Telasang, Scientist 'D', ARCI, Hyderabad.
- ✓ Dr. S. Surya Kumar, IIT Hyderabad.
- ✓ Dr. Falguni Pati, IIT Hyderabad.
- ✓ Dr. Y. Ravi Kumar, NIT Warangal.
- ✓ Dr. Shiva Rama Krishna, O.U, Hyderabad.
- ✓ Dr. Adityamohan Alwala, MNR Medical College and Hospital, Sangareddy.

## Topics to be Covered:

- 3D Printing Processes
- 3D Modelling Techniques
- 3D Digitizing & Reverse Engineering
- Hardware configuration and building of 3D Printers
- Overview of metal 3D Printing
- Metal 3D Printing with Laser Engineered Net Shaping and Selective Laser Melting
- Role of 3D Printing in fields of Medical, Aerospace and Satellite communication
- 3D Bio-printing
- 3D Printing projects and R&D activities
- Hands-on sessions on 3D printing

## Registration:

This program is open to the Faculty members, Professionals involved in industry, Research Scholars, Post-Graduate and Graduate students. Eligible candidates may apply by submitting the scanned copy of the filled registration form (attached with this mail/ brochure) by e-mail to [sttpon3d@ifheindia.org](mailto:sttpon3d@ifheindia.org) on or before 15-04-2019 along with the registration fee.

## Registration Fee Details:

Industry Professionals	₹3000/-
Academicians	₹2000/-
Scholars and Students	₹1000/-

Certificate of participation will be issued to all the participants. Registration fee includes kit, working lunch, tea and snacks.

Account Name	The ICFAI Foundation for Higher Education
Account No.	05212020001733
Bank	HDFC Bank Ltd
Branch	Banjara hills
IFSC Code	HDFC0000521

**Note:** The paid accommodation will be provided in the campus on first come first serve basis.

## Confirmation of Participation:

On receipt of the registration form along with proof of payment of registration fee, eligible participants will be sent a confirmation of their participation through e-mail. As the programme is conducted in an interactive mode with **hands-on sessions**, the number of participants is limited to 50. Participants are requested to register at the earliest.