

# ONLINE FACULTY DEVELOPMENT PROGRAMME

## Additive Manufacturing & 3D Printing

12, 13 & 14  
JULY 2021

### Funded by

APJ Abdul Kalam Technological University,  
Kerala

### Organised by

Department of Mechanical Engineering,  
St. Joseph's College of Engineering & Technology, Palai



ST. JOSEPH'S  
COLLEGE OF ENGINEERING  
AND TECHNOLOGY,  
- PALAI -



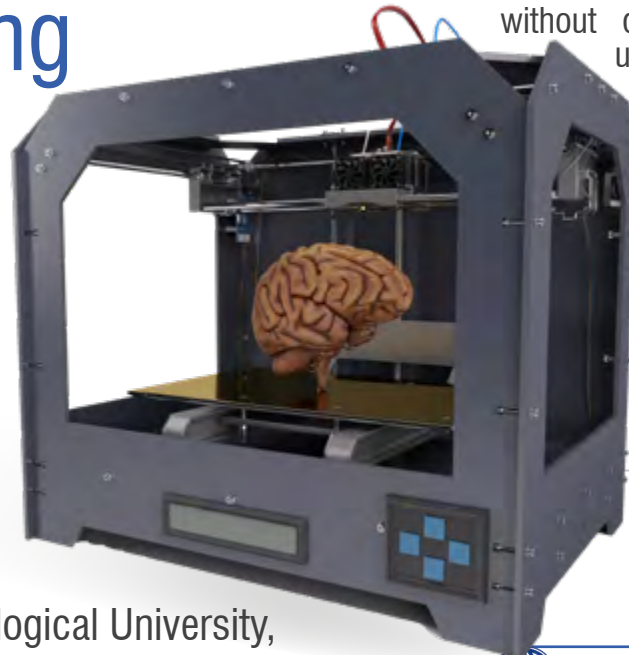
### Topics

- Introduction of 3D printing technology
- Metal 3D printing
- Biomedical applications in 3D Printing
- Research in Additive Manufacturing
- Virtual demo in Cura® and ideaMaker®

### About programme

Additive manufacturing (AM), universally known as 3D printing, is transforming how products are designed, produced, and serviced. AM enables on-demand production without dedicated equipment or tooling, unlocks digital design tools.

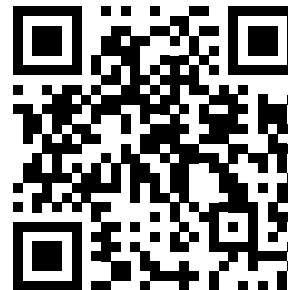
This programme provides an opportunity to perform research in 3D printing for various applications. The programme also tends to provide a forum for academic expert, industry experts and research scholars to exchange and share their experiences and innovations about all aspects of 3D Printing.



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### Programme Objectives

- To impart knowledge and skills related to 3D printing technologies especially in bio-medical devices.
- To explore the state-of-the-art technologies in 3D Printing.
- To apprise the participants of emerging trends in 3D Printing technology.
- To bridge the gap between academic learning and industry demands in the field of 3D printing technology.
- To enable the participants to have experiential learning in 3D modelling, build-setup.

### Programme Attributes

- **There is no registration fees for the course.**
- Maximum number of participants is limited to 60. Therefore, participants will be selected on first-come first-serve basis.
- Selected candidates will be intimated by e-mail.
- Submission of application signed and sealed by head of the institution is mandatory.

### Who can attend?

Faculty members of AICTE affiliated educational institutions under KTU, Research Scholars and MTech students are eligible to participate.

### Important dates!

**Date of commencement of online registration** : 10 June 2021

**Last date for completing online registration** : 30 June 2021

**Intimation of selection** : 05 July 2021

**Confirmation of Participation** : 10 July 2021

## Resource Persons

**Dr. Mamilla Ravi Sankar**  
Assoc. Professor - IIT Tirupati

**Dr. S. Kanmani Subbu**  
Asst. Professor - IIT Palakkad

**Dr. Y Ravi Kumar**  
Assoc. Professor - NIT Warangal

**Mr. Vinod Kumar V**  
Engineer F - SCTIMST Trivandrum

**Dr. Sreekanth M P**  
Asst. Professor - VJEC Chempuri, Kannur

**Mr. Adhil Munna**  
CEO - CLOODOT

**Dr. Lijo Paul**  
Dean PG - SJ CET Palai

## Programme Coordinators

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## Address for communication

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## SJ CET

The establishment of St. Joseph's College of Engineering and Technology, Palai, managed by catholic diocese of Palai, was the fulfillment of a long cherished dream of providing facilities for higher education in engineering and technology. The college has developed a distinct identity and character, where education and training are imparted in a truly holistic way.

The college aims to provide an education that WORKS! – education that helps the students in ensuring a challenging and satisfying career after the graduation. The college is dedicated to preserve the Eco-systems and live in harmony with nature.

## Department of MECHANICAL ENGINEERING

The Department of Mechanical Engineering is committed to excellence in research, teaching, and service to the community. The department had its start along with the inception of the college in the year 2002. The department has the unique identity with:

- B.Tech Program in Mechanical Engineering accredited by NBA.
- M.Tech Program in Advanced Manufacturing and Production Management.
- Well-equipped laboratories having facilities even beyond the curriculum of UG and PG programmes.
- Follows outcome based teaching learning (OBTL) process.
- Faculty members having long term teaching as well as industrial experiences
- APJAKTU Research Centre with in the fields of manufacturing and thermal engineering.
- Ongoing Ph. D works as well as funded projects
- Majestic alumni who adjoin the department through technical and well as employment opportunity supports.

## VISION

To develop into a center for imparting knowledge and technical skills of international standards, in Mechanical Engineering

## MISSION

- To follow a teaching-learning process, with the support of qualified and committed faculty, in undergraduate and post graduate Mechanical Engineering programs.
- To establish an infrastructure and academic ambiance for collaborating with Industry, Academia and Community to serve local and national enterprises.
- To make the students self-learners and socially committed engineers, for individual and collective accomplishments.

## M. TECH in Advanced Manufacturing & Production Management

- Unique M. Tech program under APJAKTU precisely focusing industrial requirements in manufacturing and management.
- Highly qualified faculty having research experience in premier institutions including IIT & NIT
- Well equipped research centre with high end software's, to assist graduates for highly competent project works
- Projects carried out in renowned industries and government institutes including ISRO & IIT's
- Tie-up with University of Johannesburg for project Co-Supervision
- Alumni's placed in premier core companies including Forbes Marshal & MRF

