

## RESOURCE PERSONS

Experts from Academic Institutions and Industries

## OTHER IMPORTANT INFORMATION FOR PARTICIPANTS

- This FDP is only for faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government and Industry.
- The FDP will be conducted in Online mode. Participants willing to participate in this online FDP should have the provision of laptop/desktop/smart phone with good quality internet connections and other audiovisual facilities, as required for online training.
- Course Registration is free for all participants.
- Seats are limited (only 200) and the participants are selected by organizers on first come first serve basis.
- Shortlisted candidates will be informed through their email.
- On completion of the course an objective/quiz based assessment of all participants will done
- Those who have an attendance of minimum 80 % and score more than 60% in the test will be issued a digital certificate by the ATAL Academy.

## REGISTRATION

Participants interested to attend this program should register online in the below mentioned links :

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

## IMPORTANT DATES

Last date for registration: **12.10.2020**  
*Selected participants will be informed through email.*

Scan here for Registration



For Queries contact:  
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## AICTE TRAINING AND LEARNING (ATAL) Academy

Sponsored

ONE WEEK FACULTY DEVELOPMENT PROGRAM  
ON

## EXPLORING ADDITIVE MANUFACTURING IN HEALTHCARE APPLICATIONS

OCTOBER 19 - 23, 2020



Organized by

Department of Mechanical Engineering

**Dr.N.G.P. INSTITUTE OF TECHNOLOGY**

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai.  
Recognized by UGC & Accredited by NAAC and  
NBA (BME, CSE, ECE, EEE & Mechanical)  
Dr.N.G.P. Nagar - Kalapatti Road, Coimbatore - 641048  
[www.drngpit.ac.in](http://www.drngpit.ac.in)

## ABOUT THE COLLEGE

Dr. Nalla.G.Palaniswami - A name that is taken with great reverence by the medical fraternity and common public alike, for his pioneering efforts in providing quality healthcare. Since its inception in 1989, the Kovai Medical Center and Hospital or KMCH as we know it, has been redefining the corporate hospital set up, making healthcare accessible to all, catering to patients from all over the globe. Looking beyond its success and recognizing the need for competent technical education, Dr.N.G.P initiated the establishment of Dr.N.G.P. Institute of Technology in 2007. It aims to develop and implement a comprehensive Human Resources plan, to include recruitment, professional development, retention and succession plans that attract qualified staff and faculty and ensure that they remain contemporary in their respective roles and disciplines. The College has been affiliated to Anna University, Chennai, approved by the All India Council for Technical Education (AICTE), New Delhi, recognized by UGC under 2(f) and 12(b) and accredited by NAAC and NBA (BME, CSE, ECE, EEE & MECHANICAL).

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering has been in existence since 2009. The UG Programme is accredited by NBA. The department is recognized as Research Centre by Anna University, Chennai. The department is grown into a full-fledged one with well-equipped lab facilities and infrastructure. The department has well experienced faculty members of various specializations. The activities in the department are carried out to consort the global innovations, inventions, alternate resource development upgraded in the mechanical world for human mankind journey. The students are trained to upgrade themselves and the department is striving to mould them into a better engineer in this society.

## ABOUT AICTE-ATAL

The objectives of AICTE Training and Learning (ATAL) Academy are: To set up an Academy which will plan and help in imparting quality technical education in the country To support technical institutions in fostering research. innovation and entrepreneurship through training To stress upon empowering technical teachers & technicians using Information & Communication Technology To utilize SWAYAM platform and other resource for the delivery of trainings. To provide a variety of opportunities for training and exchange of experiences, such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes. To support policy makers for incorporating training as per requirements.

## ABOUT THE FDP

Additive manufacturing has widespread applications in various industries such as aerospace, armament, automotive, tool and mould making, architecture, building construction, dental, implants, prosthetics, surgical devices and aids, electronics, jewellery, etc. The medical industry is one of the fastest-growing sectors within additive manufacturing, and is used for a range of applications, from patient-specific implants to realistic functional prototypes and advanced medical tools. Additive manufacturing for medicine and healthcare is expected to grow exponentially. Additive Manufacturing (AM) provides extensive customisation as per the individual patient data and requirements for Medical applications. AM medical models are using in dental, cosmetic surgery, hip and knee joints, bone fractures, tumor resection, etc. This FDP brings you a taste of technology and generate a quick start interest to work with future technologies.

## COURSE CONTENTS

- 3D Printing & Additive Manufacturing for HealthCare - An Overview
- 3D Printing for Retinal Organs
- Current Status of 3D Printing in Spine Surgery
- Spine Surgery in 3D Printing
- Data Collection and Analysis for Healthcare Application
- 3D Printing Technology for Medical Applications
- 3D Printing for Pre Surgical Applications
- 3D Printing of Surgical Instruments
- 3D Printing of Biomaterials
- Nano 3D Printing in Hearing aids & Orthopedics
- Future Technology in 3D Printing

## ORGANIZING COMMITTEE

Chief Patron :	<b>Dr.Nalla.G.Palaniswami</b> Chairman, KMCH
	<b>Dr.Thavamani D Palaniswami</b> Secretary Dr. N.G.P. Institute of Technology
Patron :	<b>Dr.O.T.Buveneswaran</b> Chief Executive Officer KMCRET
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