

## AICTE Training and Learning (ATAL) Academy

ATAL Academy was established with a vision to empower faculty to achieve goals of Higher Education such as access, equity and quality. ATAL Faculty Development Programme (FDP) has been designed to fulfill the need to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines.

The objectives of ATAL FDP are:

- To support technical institutions in fostering research innovation and entrepreneurship through training.
- To stress upon empowering technical teachers & technicians using ICT
- To provide a variety of opportunities for training and exchange of experiences such as workshops, orientations, learning communities, peer mentoring and other FDPs.

## About IIT Palakkad

IIT Palakkad belongs to the prestigious group of 23 Institutes of excellence all over India today.

The institute was announced by the Government of India in 2014 and began with a head start in the very next academic year, 2015-16, with the support of the mentor Institute (IIT Madras). The academic

program was launched by admitting students to the B. Tech. course in the disciplines of Civil Engineering, Computer Science & Engineering, Electrical Engineering and Mechanical Engineering. The Institute has a vibrant student and faculty community drawn from different parts of the country and has truly emerged as a microcosm of India. IIT Palakkad targets to become a multi-disciplinary institution with a population of 5000 students in 10 years. IIT Palakkad recognizes collective growth, in collaboration with industry and other academic institutions, as the need of the time and emphasizes blue-sky research and directed research as two essential pillars of technology development.

## Department of Mechanical Engineering

Department of Mechanical Engineering at IIT Palakkad has earned a good reputation as a center of excellence in academics, research and industrial collaborations within a short time since establishment. The department offers B. Tech. in Mechanical Engineering and M. Tech. in Manufacturing and Materials Engineering. It has state-of-the-art research facilities with key research areas being additive manufacturing, micro and nano machining, contact mechanics, tribology,

laser processing, welding and surface engineering, composite fabrication and machining, transport in porous media, heat transfer studies in space-simulated environments and development of novel numerical approaches for incompressible and compressible flows. This enables the students to get theoretical knowledge as well as in hand experience in all aspects. The vision of the Mechanical Engineering stream is to train and graduate students who would be leaders in their chosen field. Our students have graduated with UG and PG degrees and have been placed well in industry and higher educational institutions.

## Course Contents

- Introduction to Additive Manufacturing processes
- Polymer and Metal based Additive Manufacturing processes
- Design for Additive Manufacturing
- Heat Transfer in Additive Manufacturing processes
- Post-Processing of Additive Manufacturing parts
- Laser additive micro and macro manufacturing
- Rapid Tooling: An Industrial application
- Role of Additive Manufacturing in Aerospace parts and its certification
- State of the art of AM in Industry

## Important Dates

Last date for registration:	Dec. 10, 2021
Intimation of selection:	Dec. 11, 2021
Confirmation by participants:	Dec. 12, 2021
Date of FDP:	Dec. 13-17, 2021

## Invited Speakers

Eminent speakers from IITs, RRCAT, DRDO, and Industries.

## Registration

There is no registration fee for participants. Number of participants is limited to a maximum of 200 on first-come-first-serve basis and selected candidates will be intimated through email.

## Who Can Participate

- Faculty members of the AICTE approved institutions
- Research scholars and PG students
- Personnel from government sector, research and development, and industries
- School teachers and staff of host institutions

## How to Apply

The applicants should register at AICTE-ATAL web portal at the earliest.

Step1: Sign up as a Participant

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

Step 2: Verify, Login – Workshops, State – Kerala, Month – December, Thrust area – All.

Step3: Register to **Additive Manufacturing: Lab Scale to Field Scale**, @ IIT Palakkad



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**Online Five-day AICTE  
Training and Learning  
(ATAL)**



## Faculty Development Program on **Additive Manufacturing: Lab Scale to Field Scale**

December 13-17, 2021



Dr. Kesavan D.

Dr. Kanmani Subbu S.

Assistant Professor



IIT PALAKKAD

Organized by

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