

**AICTE TRAINING AND LEARNING (ATAL) ACADEMY**  
**FACULTY DEVELOPMENT PROGRAM**

**NOVEL MATERIALS**  
**THEORY, SIMULATION & APPLICATIONS**

Nov 06, 2023 - Nov 11, 2023



*Organized by*

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**Model Engineering College, Thrikkakara**  
**(Managed by IHRD, Govt. of Kerala)**

REGISTRATION CAN BE DONE ONLY THROUGH AICTE – ATAL PORTAL  
**<https://www.aicte-india.org/atal>**

**Dr. Joe Francis T**  
**9446940297**

**Mr. Jayan M C**  
**8281051694**

**IMPORTANT DATES**  
**APPLY ON OR BEFORE : 27-10-2023**  
**INTIMATION TO SELECTED CANDIDATES : 30-10-2023**

# Topics and Resource Persons



## **Discovery of Novel Materials Through Computer Simulations**

*Dr. Sarith P Sathian - Professor, Dept. of Applied Mechanics, IIT Madras*

## **Functionally Graded Materials**

*Dr. Akhil S Karun - Assistant Professor,*

*Kunjali Marakkar School of Marine Engineering (On Deputation)*

*Division of Mechanical Engineering, SOE, CUSAT*



## **Smart Materials & Structures**

*Dr. Reji John - Scientist G & Director Materials (Rtd.) NPOL,*

*DRDO and Emeritus Professor, Dept. of Polymer Science &*

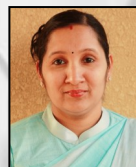
*Rubber Technology, CUSAT*

## **Proton Exchange Membrane Fuel Cells: Advances and Challenges in**

### **Electrocatalyst Support Materials**

*Dr. P Biji - Professor, Chemistry / Nanoscience,*

*PSG Institute of Advanced Studies, Coimbatore*



## **Carbon and its Composites-Materials of the Millennium**

*Dr. Prasanth Raghavan - Professor and Head,*

*Dept. of Polymer Science & Technology, CUSAT*

## **Biodegradable Metallic Materials for Temporary Implants**

*Dr. Hanas T - Associate Professor, Dept. of Material Science & Engineering,*

*NIT Calicut*



## **Novel Materials for Under Water Sensors**

*Dr. Rahna K Shamsudeen - Scientist F, Materials Group, NPOL, DRDO KOCHI*

## **Front End Innovation to Market Launch**

*Dr. Babu Varghese - Senior Scientist | Product Owner Philips Research,*

*Netherlands*



## **Computational Material Science**

*Dr. Jeetu S Babu - Assistant Professor, Dept. of Mechanical Engineering,*

*Amrita School of Engineering,*

*Amrita Vishwa Vidyapeetham, Amritapuri Campus Kollam*

## **Materials for Energy Harvesting and Sensors**

*Dr. Soney Varghese - Professor, Dept. of Material Science & Engineering,*

*NIT Calicut*



## **PCM for Thermal Management / Nanomaterials Based Coatings**

*Dr. V Sajith - Professor, Dept. of Material Science & Engineering,*

*NIT Calicut*



## **FAB Lab / IDEA Lab**

*Sri. Kannadas P K - Assistant Professor, Dept. of Mechanical Engineering,*

*MEC Thrikkakara*

## How To Apply

### ATAL FDP: Novel Materials – Theory, Simulation and Applications

1. Visit the AICTE ATAL portal - <https://www.aicte-india.org/atal>
2. If you do not have a login ID on the ATAL portal, click on "Sign Up" to create a new login as a "Participant". Click on the "Verify Email" link send to your registered email id to confirm your registration.
3. After email verification, return to the ATAL portal, login using your newly created login credentials, complete all the required fields in the "Participant Detail" and then save it.
4. After saving Participant Details, click on the "**FDPs**" link on the left side of the window. Apply proper filters as shown in the figure below and navigate down to see the “**FDP on Novel Materials – Theory, Simulation and Applications**” Click on the + sign to apply for FDP. A message will pop-up. Click **confirm**.
5. Please note that, scanned copy of your ID card and NOC from Principal/Registrar are to be uploaded for completing the registration process

After successful registration, send a copy of Registration Form / No Objection Certificate to [atalfdp\\_mechanical@mec.ac.in](mailto:atalfdp_mechanical@mec.ac.in)



**REGISTRATION FORM**  
**AICTE Training and Learning (ATAL) Academy**  
**Faculty Development Program on**  
**Novel Materials - Theory, Simulation & Applications**  
**(Nov 06, 2023 - Nov 11, 2023)**

Name :  
Designation :  
Institution :  
Address :  
  
Phone (Office) :  
Phone (Mobile) :  
Email :  
Qualification :  
Experience :  
Food Preference : Vegetarian/Non-Vegetarian

The given information is true to the best of my knowledge. I agree to abide by the rules & regulations governing the Faculty Development Program, if selected.

Place :

Date :

Signature

**No Objection Certificate**

Mr./Ms./Dr.....is an employee of our Institution and the institute has no objection in him/her applying for the AICTE sponsored ATAL FDP on Novel Materials – Theory, Simulation and Applications. If selected, he / she will be permitted to attend the program.

Date :

Seal:

Signature of HOI / Director