## Faculty Development Programme

# Nanomaterials: Developments, Applications and Future Outlook

### January 9 to 13, 2023 St. Joseph's College of Engineering & Technology Palai

#### Organised by Department of Mechanical Engineering

**Funded by** APJ Abdul Kalam Technological University, Kerala





ST.JOSEPH'S College of Engineering and Technology, - Palai-

## Resource Persons



**Prof. Dr. Sabu Thomas** *Vice-Chancellor* Mahatma Gandhi University, Kottayam



**Dr. Shijo Thomas** Associate Professor School of Materials Science and Engineering, National Institute of Technology, Calicut



**Dr. Suraj Soman** Scientist CSIR- National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram



**Dr. Adersh Asok** Scientist CSIR- National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram



**Dr. Krishnan Kartha Kalathil** *Ramanujan Fellow (SERB)* Mahatma Gandhi University, Kottayam



Dr. Mathew Joseph Assistant Professor

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## Coordinators

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## About the FDP

Nanomaterial research and development is a broad and interdisciplinary area that has been growing at a great pace worldwide in the past few years. The use of nanomaterials spans across various industries, from healthcare and cosmetics to environmental preservation and air purification. Objective of this FDP is to bring out the current research trends and future scope of research on nanomaterials. The programme will be covering new materials which are highly in demand, their characterization and applications.

### **Course Contents**

- Introduction to nanomaterials
- Materials for solar energy conversion
- Fundamentals & emerging trends in nano structured photovoltaic devices
- Sustainable deployment of solar photovoltaic technology
- Nano enhanced phase change materials for thermal management
- Synthesis and characterization of nanomaterials
- Supramolecular nanomaterials

## Course Highlights

- No registration fee. (However, participants need to pay ₹1000/which will be refunded upon successful completion of the FDP)
- Visit to the nanomaterial characterisation and testing facilities at Mahatma Gandhi University, Kottayam.

## How to apply?

Faculty from institutions affiliated to APJAKTU, Kerala can apply.

1. Download recommendation letter format from

#### http://tiny.cc/fdpmesjcet-letter

2. Fill the online form:

#### http://tiny.cc/fdpmesjcet-form

Last date of submission of online application : 12 Dec 2022

### Department of Mechanical Engineering

The department of Mechanical Engineering started in 2002, having a unique identity with:

- > NBA accredited B. Tech Programme in Mechanical Engineering
- > M. Tech Programme in Advanced Manufacturing and Production Management
- APJAKTU Research Centre within the fields of manufacturing, industrial and thermal engineering
- > Ongoing Ph. D works as well as funded projects



**VISION:** To develop into a centre 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 postgraduate Mechanical Engineering programmes.
- To establish an infrastructure and academic ambience 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.

### How to Reach?

Reach the venue (Google Map location) : http://tiny.cc/mesjcet-map In case of queries, mail to us : fdpnano@sjcetpalai.ac.in