



**NATIONAL INSTITUTE OF
TECHNOLOGY CALICUT**
DEPARTMENT OF MECHANICAL ENGINEERING



FIVE-DAY WORKSHOP ON **ENERGY SYSTEMS AND MODELLING**

(Online Mode)

26th – 30th June 2023

Department of Mechanical Engineering, NIT Calicut, Cordially invites you to attend the Five-Day Workshop on “Energy Systems and Modelling”

Last date of Registration and Payment: **24th June 2023**

Confirmation and Invitation Link: **25th June 2023**

Coordinators:
Dr. Vinod Kumar Sharma
Dr. Vijayaraj K

ABOUT NIT CALICUT

National Institute of Technology Calicut (NITC) is one of the 31 institutions of national importance set up by an Act of Parliament namely the 'National Institute of Technology Act 2007', and is fully funded by the Government of India. The mandate of the Institute is to provide higher technical education and conduct research in the various branches of Engineering, Science, Technology and Management. Originally established in 1961 as a Regional Engineering College (REC), it was transformed into a National Institute of Technology in 2002. The Institute offers bachelors, masters and doctoral degree programs in Engineering, Science, Technology and Management. With its proactive collaborations with a multitude of research organizations, academic institutions and industries, the institute has set a new style for its functioning under the NIT regime.

ABOUT MED, NIT CALICUT

Department of Mechanical Engineering, the largest department in the Institute, offers regular undergraduate, postgraduate and doctoral degree programmes. It also offers part time doctoral degree programmes, mainly meant for those employed in industries and academic institutions. Department offers continuing education programmes for industry and academic personnel. Summer/Winter schools have also been organised by the Department. The faculty of this department provides guest lecture for many of the neighbouring institutions. Besides teaching, the members of the faculty are involved in consultancy work (Design & Development, Energy Auditing, Industrial Sickness Evaluation, Testing etc.), sponsored research work (sponsored by DST, AICTE, ARDB etc.), and product development.

COURSE OBJECTIVE

The objective of the workshop is to provide a forum for industry and academic discussion about Future Energy Systems. Computer Modelling supports the goal of accelerating the pace of engineering and science in industry and academia, and NIT Calicut serves as the focal point for upskilling the local engineering colleges.

It is proposed to conduct an online Five-Day orientation workshop for faculty members, UG/PG students, research scholars from various engineering colleges, and industry persons.

PATRON

Prof. Prasad Krishna
Director, NIT Calicut

WORKSHOP CHAIR

Dr. Joseph M.A.
HOD, MED, NIT Calicut

LIST OF SPEAKERS

Dr. E. Anil Kumar
IIT Tirupati

Dr. B. Satyasekhar
IIT Jammu

Dr. Afzaal Ahmed
IIT Palakkad

Dr. Rakesh N
IIT Madras

Dr. Rakesh Sharma
DLR Stuttgart, Germany

Dr. Sambhaji Kadam
University of Glasgow, UK

Dr. Harimohan
NYMCTU, Taiwan

Dr. Sayuj Sasidharan
Trinity College Dublin, Ireland

Dr. Vinod Kumar Singh
IEST Shibpur

Dr. Arun P
NIT Calicut

Dr. Sarvoththama Jothi
NIT Calicut

Dr. Saleel Ismail
NIT Calicut

Dr. Rohini Kumar
NIT Calicut

Dr. Simon Peter
NIT Calicut

Dr. Sujith Kumar CS
NIT Calicut

Dr. Bhaskar Das
VIT Vellore

Dr. Vinod Kumar Sharma
NIT Calicut

Dr. Vijayaraj K
NIT Calicut

Dr. Sharu BK
NIT Calicut

Dr. Jacob Koshy
NIT Calicut

Dr. Sanjeev Manjhi
NIT Calicut

TOPICS TO BE COVERED

- Hydrogen Production, Storage and Utilization
- CO₂ Capture and Sequestration
- Energy Harvesting
- Fuel Cells
- Ammonia Thermal Systems
- Solar Thermal Systems
- Turbomachinery
- Thermal Sensors for Energy Systems
- Battery Thermal Management
- Energy Materials
- CO₂ Refrigeration System
- Renewable Energy Conversion Systems
- Phase Change Materials
- Fundamentals of CFD
- CFD Modelling - Hands on
- Innovation and Startups in Energy Systems

HOW TO REGISTER?

Interested students can register by filling the google form through the link provided below.

<https://docs.google.com/forms/d/1rN-oCDXHFryjUzKUiekRlyqVHt6lX3K4qUrMwFB9xJ8/edit?ts=6463e15f>

REGISTRATION FEE (INCLUDING 18% GST):

Industry Persons – 1888 INR
Faculty Members – 1770 INR
PhD Scholars – 1180 INR
PG Students – 885 INR
UG Students – 590 INR

PAYMENT DETAILS:



Registration fee can be paid using the above QR Code.

CONTACT DETAILS:

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Dr. Vijayaraj K
vijayaraj@nitc.ac.in