

## About Nehru Group of Institutions (NGI)

Nehru College of Educational and Charitable Trust was established way back in 1968 by the Founder Chairman late Shri. P. K. Das who was an eminent Chartered Engineer, a renowned Academician, a great Industrialist and a well known Philanthropist with an objective of imparting value added practical education of international standard in aviation and other fields of technology. The trust, started initially with a college of aeronautics diversified later on to establish a cluster of educational institutions both in Tamil Nadu and Kerala. Nehru Group of Institutions (NGI) was founded on this philosophy to serve students, especially from socially backward backgrounds looking out for continuing education pathways with an academic and vocational direction.

## About the Institute

Jawaharlal College of Engineering and Technology (JCET) Lakkidi, Ottapalam, Palakkad, is one of the top-ranking Educational institutions offering excellence in engineering education. Apart from highly competent and devoted faculty, excellent infrastructure and teaching aids JCET with its enchanting and spectacular topography, lush green vegetation, salubrious climate, has evolved as a notable School of Engineering. It has an integrated approach to Education where academic training goes arm in arm with techniques that develop the body, mind and soul and prepare all its graduates to be future leaders and entrepreneurs.

JCET is affiliated to the A.P. J. Abdul Kalam Technological University, Trivandrum, Kerala from the 2015 admissions onwards, and had been affiliated to the University of Calicut, Kozhikode, Kerala from 2008 to 2014 and is approved by the All India Council for Technical Education, (AICTE), New Delhi.

Jawaharlal College of Engineering and Technology is a part of Nehru College of Educational and Charitable Trust, which was headed by Late P.K. Das, F.I.E., F.I. Mech. E., M.S. Engg., A.F.R.Ae.S. (London), C.Engg., a well known educationist, and philanthropist. The Trust was established at an auspicious moment in the year 1968, with the primary objective of rendering selfless, dedicated and yeomen service to the cause of higher education originally in the field of Aeronautical Engineering and subsequently in the field of rest of engineering branches, Management, Arts, Science, and Paramedical Sciences has added feather after feather to its cap. Its Educational service to the poor, underprivileged and downtrodden in the society is freely accessed and widely appreciated by the people, especially from Tamil Nadu and Kerala. Over the period of nearly five decades, it has established and patronized a number of prestigious Educational Institutions, all of which have grown to the stature of being accredited with ISO 9001 : 2015 certification by the International Certification Services. JCET is one of the best self-financing college in palakkad.

## About Department of Mechanical Engineering

The Department of Mechanical Engineering was started in the year 2008. The department offers B. Tech. program in Mechanical Engineering. Mechanical Engineering department has a team of highly qualified and experienced faculty, well developed infra structure and lab facilities. At present, the department intake capacity is 60 students per year at the B. Tech. level. The department helps the students to develop their overall personality and make them worthy to compete and work at global level. The department has evolved a comprehensive student-centric learning approach, designed to add significant value to the learner's understanding in an integrated manner through workshops, lab sessions, assignments, training, seminars, projects and independent study.

## About FDP

This FDP is designed to give exposure to the latest green energy strategies and engineering practices adopted for the sustainable development of the society and the nation. A comprehensive understanding of the latest renewable energy technologies, energy efficient processes, energy conservation measures and environment-friendly design, etc. are needed to apply and implement different strategies for ensuring sustainability. Upon completion, participants will be able to train their students on energy efficient and eco-friendly engineering practices and renewable energy harnessing methods.

## Course Contents

- # Solar energy and thermal challenges
- # Thermal energy storage
- # Heat pump assisted Solar thermal desalination
- # Design and optimisation of energy systems
- # Analysis of energy systems
- # Advanced biomass conversion technologies
- # Hybrid energy systems
- # Energy efficiency
- # wind energy exploitation in urban environment

## Who can attend the FDP?

This FDP is open to faculty members / research scholars, who aspire to specialize in Renewable Energy, from engineering colleges affiliated to APJ Abdul Kalam Technological University, Kerala

## Resource Persons



**Dr. Mohanraj**  
Professor,  
Dept of Mechanical Engineering  
Hindustan College of Engineering



**Dr. Sathyabhama**  
Professor  
Dept of Mechanical Engineering,  
NIT Surathkal



**Dr. S. Jayaraj**  
Former Professor (HAG) & Head  
Dept. of Mechanical Engineering  
NIT Calicut



**Dr. Arun K Raj**  
Research head,  
Centre for Computational  
Engineering and Networking,  
Amrita Viswa Vidyapeetham,  
Coimbatore, India



**Dr. V. Arul Mozhi Selvan**  
Associate professor  
Dept. of  
Mechanical engineering  
NIT Tiruchirappalli



**Dr. P. Arun**  
Associate professor  
Dept. of  
Mechanical engineering  
NIT Calicut



**Dr. N. Gunasekaran**  
Principal  
Jawaharlal college of engineering  
and technology



**Dr. K. Dileep**  
HOD Dept. of Mechanical Engineering  
Jawaharlal college of engineering and  
technology

## Registration Link & Instructions

- # Mode of conduct: OFFLINE
- # NO REGISTRATION FEE
- # Participants need to register through online
- # Link is given below and upload duly filled registration form given at the back side of this page.
- # The no. of participants is limited to 30 and the selection will be based on first come first serve basis
- # It is compulsory for all participants to attend all the offline sessions and to fill the feedback forms in order to receive the participation certificate.



Scan to Register  
Last date for registration : 18.04.2023  
Notification of selection: 20.04.2023