

# 1 Day Workshop on Renewable Energy -Opportunities and Challenges



November 9, Friday



10 am to 4:30 pm



St. Joseph's College of Engineering  
and Technology, Palai



Organised by  
Department of Mechanical Engineering  
in association with  
Center for Interdisciplinary Research, SJCTET

ST. JOSEPH'S  
COLLEGE OF ENGINEERING  
AND TECHNOLOGY,  
-PALAI-

Administered by the Diocese of Palai | An ISO 9001-2008 Certified College  
[www.sjctetpalai.ac.in](http://www.sjctetpalai.ac.in)

## Resource Persons



**Mr. C. P. George**  
Deputy Chief Engineer  
KSEB

Mr. C. P. George is Deputy Chief Engineer, Kerala State Electricity Board Ltd. (KSEBL). He is a B. Tech graduate from NIT Calicut and has vast experience in the fields of power sector, oils & gas and open cast mining. He is a certified power system operator & certified specialist in regulatory frameworks (Ministry of Power – GOI). He has considerable experience and in-depth knowledge in Engineering, Planning, Material Management and project Execution. He has Over 32 years of experience in HV and EHV systems in Power Stations and Substations up to 220 kV. He has also worked in ECC Division (Engineering Construction & Contracts) of L&T, Occidental Mukhaizna Muscat – Oman and Neyveli Lignite Corporation Tamil Nadu, India. He has experience in planning software Primavera, man hour estimates and job card progress matrix for scheduling in various levels of management.



**Dr. N. Sendhil Kumar**  
Head,  
Dept. of Mechanical Engineering  
NIT Puducherry

Dr. Sendhil Kumar Natarajan, is the Head of the Mechanical Engineering Department, NIT Puducherry. He obtained his Ph. D from IIT Madras and has vast engineering knowledge in the field of Energy Technologies. He worked as Senior R&D Engineer at CSEM-UAE and have did his Post-Doctoral Research at Heriot-Watt University, Edinburgh, Scotland, UK. He is the winner of young faculty award in 2017 and is the winner of outstanding researcher award and Bharat Vikas Award in the field of solar thermal energy. He has fourteen international journal publications and twenty-one national and international conference publications. His research areas include solar thermal system and CSP (Concentrating Solar Power) system, CPV (Concentrator Photo-voltaic) system, integration of high temperature solar thermal systems, heat transfer and fluid flow systems.

## Target Audience

- ▶ PG and final year UG students in Mechanical Engineering & Electrical Engineering
- ▶ Faculty members & Practicing engineers


## Program Schedule

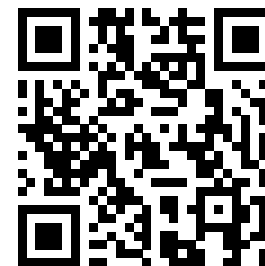
9:30 am	Registration
10:00 am	Inauguration
10:30 - 12:30 pm	Session on <b>Renewable Energy Electric Power Production</b> by Mr. C.P. George
1:30 - 4:30 pm	Session on <b>Challenges and issues in concentrating solar power systems</b> by Dr. N. Sendhil Kumar

## Registration

- ▶ Limited number of seats
- ▶ No registration fee

Register at  
[www.bit.ly/2SGsijP](http://www.bit.ly/2SGsijP)

or  
Scan the QR Code 



## Coordinators

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# SJCET, Palai

The establishment of St. Joseph's College of Engineering, was the fulfillment of a long cherished dream of providing facilities for higher education in engineering and technology. The college has developed a distinct identity and character, where education and training are imparted in a truly holistic way.

The college aims to provide an education that WORKS! –education that helps the students in ensuring a challenging and satisfying career after the graduation. The college is dedicated to preserve the Eco-systems and live in harmony with nature. SJCET follows a strategic planning approach to development insisting on Total Quality Management and continuous improvement at all levels. The college have a team of well-qualified, dedicated and trained teachers and follow the most innovative teaching-learning processes. The laboratories and other facilities are adjudged as one of the best among the engineering colleges in Kerala.

## Department of Mechanical Engineering

The Department of Mechanical Engineering is committed to excellence in research, teaching, and service to the community. The department had its start along with the inception of the college in the year 2002. The department has the unique identity with:

- ▶ Well equipped laboratories having facilities even beyond the curriculum of UG programmes
- ▶ Follows Outcome Based Teaching Learning (OBTL) process
- ▶ Faculty members having long term teaching as well as industrial experiences
- ▶ APJAKTU research center with three registered guides in the fields of manufacturing and thermal engineering. Ongoing Ph. D works as well as funded projects
- ▶ Majestic alumni who adjoin the department through technical and well as employment opportunity supports
- ▶ Two batches of UG programme and two PG programmes
- ▶ Highly qualified faculty members including five Ph.D. holders

### Vision

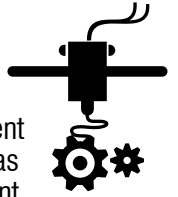
To develop into a center for imparting knowledge and technical skills of international standards, in Mechanical Engineering

### Mission

- ▶ To follow a teaching-learning process, with the support of qualified and committed faculty, in undergraduate and post graduate Mechanical Engineering programs.
- ▶ 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.

## PG Programmes

### Advanced Manufacturing and Production Management



- ▶ M.Tech program with vision to orient students in the highly developing areas of Manufacturing as well as Management fields
- ▶ Unique M. Tech program under APJAKTU which precisely focuses to the industrial requirements
- ▶ Highly qualified faculty members having research experience in premier institutions including IIT & NIT leads the teaching session in very dedicative way
- ▶ An inbuilt Micro machining centre and High end software's, to assist graduates for their highly competent project works
- ▶ Projects are carried out in renowned industries and government institutes including ISRO & IIT's
- ▶ Tie-up with University of Johannesburg , South Africa for project Co-Supervision
- ▶ The graduates are open to the opportunities for internships in abroad universities which are recognized as top in the world

### IC Engines and Energy Systems



- ▶ Curriculum matching with the most potential topics of Automobile Engineering and Energy Engineering
- ▶ Highly qualified faculty members who have research experience in premier institutions like IITs and NITs.
- ▶ Opportunities to the students to become a part of the funded projects from governmental agencies.
- ▶ Research support from TU Delft (Technical University), Netherlands
- ▶ Direct contact to do internship and projects associated with ARAI, ISRO and Forbes Marshall.
- ▶ Opportunities and funding to participate in international conferences abroad.