



# NATIONAL WORKSHOP ON GRID POWER ELECTRONICS TECHNOLOGY (19-20, SEPTEMBER 2025)



**Organized by**

**PV Research Lab, Department of Electronics & Communication Engineering**

**Indian Institute of Information Technology Design and Manufacturing Kancheepuram, Chennai – 600 127**

(An Institute of National Importance under Ministry of Education, Govt. of India)

**Funded by**

**Anusandhan National Research Foundation (ANRF)**

(Department of Science & Technology, Government of India)

## ABOUT WORKSHOP

The flexible and efficient integration of renewable energy sources and electrical vehicles are possible using grid power electronics technologies. Despite having the stringent requirements for stability and safety on generation, transmission, distribution and utilization sides, they used to fulfil critical roles in various utility applications as well. For ensuring safe and reliable operation, synchronize grid power electronic system under abnormal conditions of the grid becomes critical for grid stability. The proposed workshop covers grid power electronics system including integration of RESs and their control, various converter topologies, Power quality and Control of grid power electronics system in unbalanced grid etc.,

## IIITDM KANCHEEPURAM, CHENNAI

The course will be organized by Indian Institute of Information Technology Design & Manufacturing (IIITD&M Kancheepuram), Chennai. It is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Human Resource Development, Government of India. To pursue design and manufacturing oriented engineering education and research and for promoting the competitive advantage of Indian products in global markets. The institute is located on a 51-acre campus on the outskirts of Chennai, off the Vandalur-Kelambakkam road. The Institute is presently offering UG, PG, and Ph.D programmes in Computer Engineering, Electronics and Communication Engineering and Mechanical Engineering.

## EMINENT SPEAKERS



**Dr. H. Krishnamoorthy**  
University of Houston,



**Dr. Animesh Sahoo**  
IIT Dharwad



**Dr. Vijayakumar Gali**  
Univ. of Hertfordshire, UK



**Dr. B. Chitti Babu**  
IIITDM, Kancheepuram



**Shri. KVN Pawan Kumar**  
DGM, SRLDC, Grid India



**Shri. Sanyasi Naidu,**  
DGM, SRLDC, Grid India

## TOPICS

- Grid integration of renewable energy system including power quality with Solid State Transformers (SSTs)
- Grid synchronization techniques for grid-connected power converters.
- Control of grid power electronics system in unbalanced grid
- Renewable-based off-Grid/Grid-Interactive systems.
- Roadmap for Grid Forming Inverters' Integration into Indian Power Grids
- Power quality issues of aggregated grid power electronics

## WHO SHOULD ATTEND?

The Programme is open to the faculty of Engineering Universities/ Institutes /colleges, researchers, industry personnel and Ph. D. scholars.

## FACULTY CONDUCTING WORKSHOP

The Programme will be conducted online mode by the faculty members from IITs/IIITDM/Foreign universities are invited to deliver lectures in the programme.

## REGISTRATION FEE PARTICULARS

**No registration fee**

## HOW TO APPLY?

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/cte6sRs6eKNWRfCy8>

## SELECTION CRITERIA

Selection will be done based on a first-come-first-serve basis to a maximum number of 80 (Eighty). The list of selected participants will be intimated through e-mail.  
**Note:** 100% attendance is mandatory for receiving the Certificate.

## IMPORTANT DATES

Last date for Registration	30/08/2025
Selection List by E-mail	05/09/2025
Duration	19/09/2025 - 20/09/2025

## ORGANIZING COMMITTEE

**Chief-Patron**

**Prof. M V Kartikeyan FIEEE, FNAE,  
Director**

Indian Institute of Information Technology  
Design and Manufacturing Kancheepuram, Chennai

**Patron**

**Prof. S.Jeyavel  
Dean (SRICCE)**

Indian Institute of Information Technology  
Design and Manufacturing Kancheepuram, Chennai

**Convener**

**Dr. B. Chitti Babu**

**Associate Professor (Power & Energy)**

Dept. of Electronics & Communication Engg.,  
Indian Institute of Information Technology  
Design and Manufacturing Kancheepuram, Chennai.  
E-mail: [pvrlabiitdm@gmail.com](mailto:pvrlabiitdm@gmail.com)