

Five Days Online Workshop  
On  
**Renewable Energy and  
Plug in Vehicle  
Integration in Micro-Grid**

**14<sup>th</sup> - 18<sup>th</sup> November 2022**

Convener :

**Dr. Sushree Diptimayee Swain**



**OPJU**

UNIVERSITY OF STEEL TECHNOLOGY  
AND MANAGEMENT

Organized By:

**Department Of  
Electrical Engineering**



**OP Jindal University, Raigarh**

## About OP Jindal University

Founded by the Jindal Education and Welfare Society, OP Jindal University (OPJU) was set up to bring high quality education to its students based on a world class curriculum, the latest teaching methodology and committed faculty members. The multidisciplinary university aims to develop young professionals and future leaders who will not only power growth and development in the state, but also make a mark globally. At the core of the university's philosophy and approach lies the belief that students learn best when exposed to real world situations and when nurtured through enriching interactions with practitioners and professors. We at OPJU believe that every student has innate potential that can be unlocked through quality teaching and mentorship. In The Institute offers B.Tech., M.Tech. and Ph.D. programmes in Engineering, Science, Management and Humanities.

## Brief Profile of the Department of Electrical Engineering

Electrical Engineering Department is one of the oldest departments of OPJU Raigarh. The Department has been imparting quality education at undergraduate and post-graduate, Ph.D level. The faculty members have been active in teaching and research activities. The course curriculum is being revised from time to time so as to keep students abreast with latest emerging technologies. Various departmental laboratories have been strengthened and modernized by procuring state of art equipment's. Department is also equipped with latest experimental and computational facilities for taking up R&D and consultancy activities in different areas of Electrical Engineering.

## Highlights

This program will be conducted in one session per day. This course will help the participants in enhancing their skills and knowledge towards academic research as well as current trends in Electrical Engineering.

## Organizing Committee

### Chief Patron

**Ms. Shallu Jindal**  
Chancellor, OPJU Raigarh

### Patron

**Dr. R.D. Patidar**  
Vice Chancellor, OPJU Raigarh

### Chairman

**Dr. G. Madhusudhana Rao**  
Head, Dept. of EE, OPJU Raigarh

### Convener

**Dr. Sushree Diptimayee Swain**  
Assistant Professor(Sr. Grade)  
Dept. of EE, OPJU Raigarh

## Organizing Committee

- ❖ Dr. Deepak Singh, Assoc. Prof.
- ❖ Mrs. Pushpanjali S. Hota, Asst. Prof.
- ❖ Mrs. Bhawana Deshmukh, Asst. Prof.
- ❖ Mr. Prashanth Kumar Jena, Asst. Prof.
- ❖ Mr. Rakesh Patidar, Asst. Prof.
- ❖ Dr. Imran A. Quadri, Asst. Prof. (Sr. Grade)
- ❖ Dr. Sandeep Biswal Asst. Prof. (Sr. Grade)
- ❖ Mr. Ankireddy Narendra, Asst. Prof.
- ❖ Mr. Shashikant Kaushley, Asst. Prof.
- ❖ Mr. Rupesh Patel, Lecturer

## Overview of FDP

The purpose of five day FDP is to provide ideas on research development, applications, challenges and current trends in Electrical Engineering.

## Objectives

- To enhance skills on research publications, funding projects, journal indexing and the usage of Latex software in writing research articles.
- Provide comprehensive view on current trends in Electrical Engineering research areas.

## Course Coverage

- ❖ Cyber Physical System approach to Micro-grid System Design.
- ❖ Distributed Generating System Integration.
- ❖ Power Electronic Control Design For Micro-grid.
- ❖ Integration of Renewable and Plug-in Electric Vehicles to Micro-grid.
- ❖ Forecasting of solar irradiance to address intermittency and variable nature of Renewable Energy.
- ❖ Control of PV and EV Connected Smart Grid.
- ❖ Control Scheme of Charging Control of Plugin Electric Vehicles and Effects on Forecasting Electricity Price.
- ❖ Power Management of PV and EV connected Smart Grid.
- ❖ Design of Electric Vehicle Charging System for a Renewable Source integrated Micro-grid.
- ❖ Development of PV fed UPQC with Advance Controller for Power Quality Improvement.

## For Registration

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

[https://docs.google.com/forms/d/e/1FAIpQLSehUiukbY4JoFegVC7N0RbIHRLjm-megctwk7j6D6wA8FXhZg/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSehUiukbY4JoFegVC7N0RbIHRLjm-megctwk7j6D6wA8FXhZg/viewform?usp=pp_url)

## FDP Delivery Mode

Online (Link will be shared to registered person only)

E-Certificate will be provided

## Important Dates

Last date of e-registration : 12-11-2022  
Confirmation by E-mail : 12-11-2022  
e-Workshop duration : 14 Nov-18 Nov 2022

## Registration Fee

Category	Registration Fee in INR
Research Scholars/ PG & UG Student	100/-
Faculty Members From Engineering Institute	150/-
Engineers from Industry and R&D Organization	200/-

Account No : 34368061214  
IFSC Code : SBIN0012145  
Branch Code : Raigarh  
Bank : State Bank of India

## Inauguration 2:30 PM to 3:30 PM



**Dr. R.D. Patidar**  
Vice Chancellor, OPJU Raigarh



**Dharendra Prasad Kuswaha**  
Associate Vice President,  
SMS III (JSP)



**R.D. Katre**  
Vice President,  
JPL Tamnar, Raigarh



**Dr. G. Madhusudhana Rao**  
Head, Dept. of EE, OPJU Raigarh



Date	Session Details (2.30 - 4.30PM)
14.11.2022	Inaugural Session
	Design of Electric Vehicle Charging System for a Renewable Source integrated Micro-grid. <b>Dr. Gayadhar Panda, Professor, Dean (NIT Meghalaya, India)</b>
15.11.2022	Power Quality Improvement & Management For PV Integrated Micro-Grid <b>Dr. Pravat Kumar Ray, Associate Professor (NIT Rourkela)</b>
16.11.2022	Integrated Solution for Micro- grid Power Quality Issues <b>Dr. R.D. Patidar, Vice Chancellor, OP Jindal University, Raigarh</b>
17.11.2022	Power Electronic Control Design For Micro-grid by using OPAL-RT <b>Dr. Ritula Thakur, Associate Professor (NITTTR Chandigarh),</b>
18.11.2022 (1 <sup>st</sup> Half Session) 11:00 AM - 01:00 PM	Power Management of PV and EV connected Smart Grid. <b>Dr. Mahendra Joshi, Ph.D (NIT Rourkela) GM (Genpact)</b>
18.11.2022 (2 <sup>nd</sup> Half Session) 2:30 PM - 4:30 PM	Forecasting of solar irradiance to address intermittency and variable nature of Renewable Energy. <b>Dr.PVV Ramarao, Professor, MVSR Engineering College, Hyderabad</b>

## Resource Persons

Distinguished faculty members graduated from premier institutions viz., Reputed Foreign Universities, IITs, NITs



**Dr. Gayadhar Panda**  
Professor & Dean (NIT Meghalaya, India)



**Dr. Pravat Kumar Ray**  
Associate Professor (NIT Rourkela)



**Dr. R.D. Patidar**  
Vice Chancellor, OPJU



**Dr. Ritula Thakur**  
Associate Professor (NITTTR Chandigarh)



**Dr. Mahendra Joshi**  
Ph.D (NIT Rourkela) GM (Genpact)



**Dr. PVV Ramarao**  
Professor, MVSR Engineering College, Hyderabad

## Contact Persons

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