

OP Jindal University, Raigarh

Department of Electrical Engineering

Quarterly Report October to December 2023

Journal Publication:

BOOK Publication:

International Conference:

1. **Dr G MadhusudhanaRao** et al have presented a paper titled “ANFIS-based Optimisation for achieving the Maximum Torque per Ampere in Induction Motor Drive with PI Controllers” in First International Conference on Advances in Electrical, Electronics and Computational Intelligence (ICAEECI 2023) to be held at KSR College of Engineering, Tiruchengode, Tamil Nadu, India during 19 – 20, October 2023.
2. **Dr. Ankireddy Narendra** presented a paper on “Universal Motor Drive based Drip Irrigation using PV or Grid System” in 11th National Power Electronics Conference (NPEC2023) held at IIT Guwahati during 14-16 Dec 2023.

Research Achievements and Publications:

1. SCOPUS indexed book chapter of Dr. Sandeep Biswal, Sr. Assistant Professor, Department of EE, Title: **Directional Relaying Issues in Power Transmission Networks**, it will be published in the book titled “Energy and Environmental Aspects of Emerging Technologies for Smart Grid”.

OP Jindal University, Raigarh

Department of Electrical Engineering

2. SCOPUS indexed book chapter of Dr. Sandeep Biswal, Sr. Assistant Professor, Department of EE, Title: **Optimal Location Selection of Electric Vehicle Charging Stations and Capacitors in Radial Distribution Networks using GJO Algorithm**, it will be published in the book titled “Energy and Environmental Aspects of Emerging Technologies for Smart Grid”.
3. SCOPUS indexed book chapter of Dr. R. D. Patidar, Dr. Sushree Dipti Swain & Dr. Sandeep Biswal, Sr. Assistant Professor, Department of EE, **Performance of Grid-Connected Shunt Active Filter Equipped PV System**, it will be published in the book titled “Energy and Environmental Aspects of Emerging Technologies for Smart Grid”.

Webinars:

Faculty and Staff involvement in university activities

- Dr Sushree Diptimayee Swain is involved in various CDC activities
- Dr Ankireddy Narendra taking part in the departmental Monthly Progress Report from October 2023 to December 2023.
- Mr. Shashikant Kaushaley, Mr. Rupesh Patel and Mr. KP Satish are involved in various industrial visits for B. Tech 3rd semester students.
- Mr. Shashikant Kaushaley & Mr. Rakesh Patidar were involved in NAAC criteria 7.
- Mr. Rupesh Patel was involved in NAAC criteria 6, 7.1.9 and 7.1.10.
- Dr Sushree Diptimayee Swain, Dr Ankireddy Narendra, Mr. Rakesh Patidar, Mr. Shashikant Kaushaley, Dr. Sandeep Biswal, Mrs. Bhawana Deshmukh, Mrs. Pushpanjali S. Hota, Mr. Jugal Kishore, Mr. Kapol Nashine and Pankaj Badek were involved in **Smart India Hackathon** from 19th - 20th December 2023 at OPJU Campus.
- All faculty and staff were actively involved in NAAC-related activities.

OP Jindal University, Raigarh

Department of Electrical Engineering

Workshops/FDP/Seminars

1. **Dr. Sandeep Biswal, Sr. Assistant Professor in the department of EE as an Organizing Secretary has organized a workshop on 'Emission Control Strategies in Thermal Power Plants' on 31st October 2023 in hybrid mode in association with IEEE IRC, Jindal Power Limited, Tamnar, Institution Innovation Council & IEEE MP Section.**



OP Jindal University, Raigarh

Department of Electrical Engineering

Collaborations and MoUs:

Awards/Honours:

1. **Dr. Ankireddy Narendra** acted as a “**session chair**” in 11th National Power Electronics Conference (NPEC2023) held at IIT Guwahati during 14-16 Dec, 2023.

Patent:

Training Sessions conducted by the Center for Corporate Education and Training (CCET):

	Party	Title of the Training	Training From	Conducted By	Days	No. of participant

- **Upgradation in infrastructure:**

Appointments:

Important activities conducted by Department/ Expert Lecture Delivered:

OP Jindal University, Raigarh

Department of Electrical Engineering

1. Dr. Sandeep Biswal, Sr. Assistant Professor has delivered an expert talk in **2nd One Week International Workshop on Recent Trends in Optimization Techniques for Challenging Engineering Applications to be held at VIT University, Amaravati** dated 14th Dec. 2023.
2. Dr. Sandeep Biswal, Sr. Assistant Professor delivered an expert talk in a **National webinar conducted by Bharti Vishwavidyalaya, Durg, CG,** dated 30th Nov. 2023.
3. Dr. Ankireddy Narendra delivered a Talk on “Power Electronics in the Point of Industry” for B.Tech Final Year students under “Pre-Placement Preparation” on 03-11-2023.
4. Dr Sushree Diptimayee Swain has organized an online webinar on “ Techniques for leading group discussions” on 6th November 2023.
5. Dr [Sushree Diptimayee Swain](#) has delivered an expert talk in a five-day online workshop on “ Role of IOT in smart systems and infrastructure”, dated 06-10-2023.

Events & Activities:

1. Mr. Rakesh Patidar and Mr. [Rupesh Patel](#) have organized a 5-day Online workshop on the “**Role of IOT in Smart Systems and Infrastructure**” from 03-07 October 2023.

The image shows a Zoom meeting interface on the left and a workshop registration page on the right.

Zoom Meeting Interface:

- Participants: 07 (7 Participants, 0 Attendees)
- Search bar
- Power Electronics diagram showing Power Devices (Diodes, Thyristors, Transistors) with their characteristics and applications.
- Diodes: General Purpose, High Speed, Schottky
- Thyristors: SCR, GTO, SITH, RCT, LASCR, MCT, TRAC
- Transistors: SCR, MOSFET, JGBT, SIT
- URL: <https://electronicssach.com/>

Workshop Registration Page:

- Organized by School of Engineering, EE Department, OPJU.
- Event: "Role of IOT in Smart Systems and Infrastructure" (03-07 October 2023)
- Registration Fee: 100/-
- Important Dates: Last date of e-registration: 01-10-2023, Confirmation by E-mail: 02-10-2023, STTP Duration: 03 Oct - 07 Oct 2023
- Account No: 34368061214, IFSC Code: SBIN00121445, Branch Code: Raigarh, Bank: State Bank of India
- Organizing Committee: Dr. R. D. Patidar (Coordinator), Dr. G. MadhavanBhama Rao (Chairman), Dr. G. MadhavanBhama Rao (Head, Dept of EE, OPJU Raigarh)
- Coordinator: Mr. Rakesh Patidar (Asst. Professor, OPJU), Mr. Rupesh Patel (Asst. Professor, OPJU)

OP Jindal University, Raigarh

Department of Electrical Engineering

1. Mr. Rupesh Patel has given a paid lecture in JIPT on bridge course in electrical circuit topic, in October 2023.
2. Mr. Rakesh Patidar & Dr. Prasenjit Biswas has organized a poster presentation and Open Quiz competition for students on “National Energy Conservation Day” on 14 December 2023.



Poster Presentation and Open Quiz on the occasion of **National Energy Conservation Day** 14 December 2023. Free Registration. Prizes: 3rd 700/-, 1st 2000/-, 2nd 1200/-. Organized by Institution's Innovation Council. Convener: Mr. Rakesh Patidar (Assist Prof, EE). Co-Convener: Dr. Prasenjit Biswas (Assist Prof, Meta.). OP Jindal University, Raigarh. Recognized by AICTE & Affiliated to AICTE.



OP Jindal University, Raigarh

Department of Electrical Engineering

Placement drives and Internships:

- * The EE department has organized a nine-days technical session preparation for the JSL campus drive.
- * The Department of EE in association with CDC organized a three days written test on both technical as well as non technical.

Important Projects:

- **Industrial Visit/ Training:**

SL No	Course	Semester	Title of the Training	Training From/on	Industry	Days	No. of Students
1	B.Tech	3rd	Industrial Visit	14-12-23	MRSS4	1	25