

OP Jindal University, Raigarh

Department of Electrical Engineering

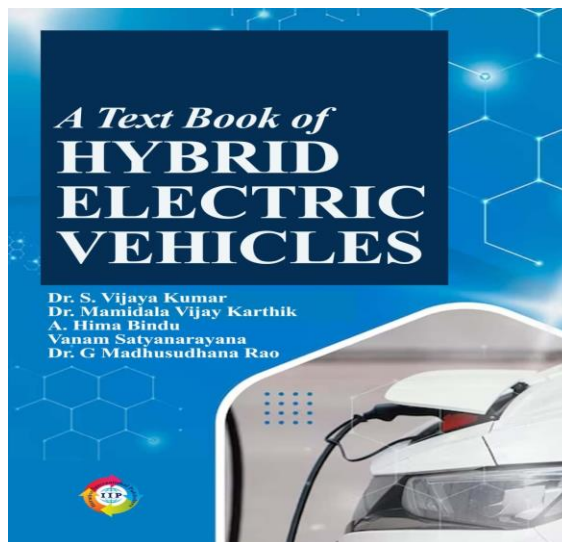
Quarterly Report July to September 2023

Journal Publication

- ❖ **Ms. Pushpanjali Shadangi and Dr. Sushree Diptimayee Swain** published a book chapter “PSO-Based DSTATCOM for Harmonic Compensation Under Different Load Perturbation” under book title "Sustainable Energy and Technological Advancements", **SPRINGER**
- ❖ **Dr. R D Patidar and Dr. Sandeep Biswal**, “**A Robust Single Ended Disturbance Detection Scheme For Superconducting Fault Current Limiter Integrated UPFC Compensated Line**” SCI Journal Paper Accepted in Electric Power System Research, Elsevier on having impact factor of 3.818.

BOOK Publication:

- ❖ **Dr G MadhusudhanaRao** published a book entitled “**Hybrid Electric Vehicles**”, IIP (Iterative International Publishers), India with ISBN: 978-93-5747-293-7.



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International Conference:

Research Achievements and Publications:

1. Dr. Sushree Diptimayee Swain, Invited as a member of the Technical Committee for the 2nd Edition of the International Conference on Intelligent Controller and Computing for Smart Power (ICICCSP 2024), Srinidhi Institute of Technology, Hyderabad, India
2. Dr. Sushree Diptimayee Swain, the keynote speaker of a five day online training program on “Needs of Industrial Application in Electrical Engineering”.
3. Ms. Pushpanjali Shadangi, the keynote speaker of a five day online training program on “Needs of Industrial Application in Electrical Engineering” on 14th July 2023.
4. Dr. Ankireddy Narendra, delivered a talk on “Renewable Energy Sources and Opportunities” under a five day online training program on “Needs of Industrial Application in Electrical Engineering” held on 10-07-2023.
5. Dr. Prasanta Kumar Jena, delivered a talk on “Cyber Security” under a five day online training program on “Needs of Industrial Application in Electrical Engineering” held on 13-07-2023.

Webinars:

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Faculty and Staff involvement in university activities

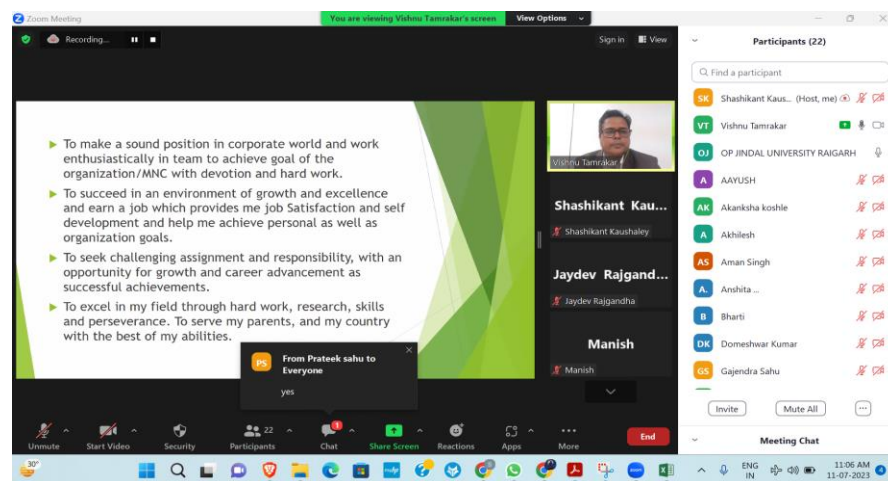
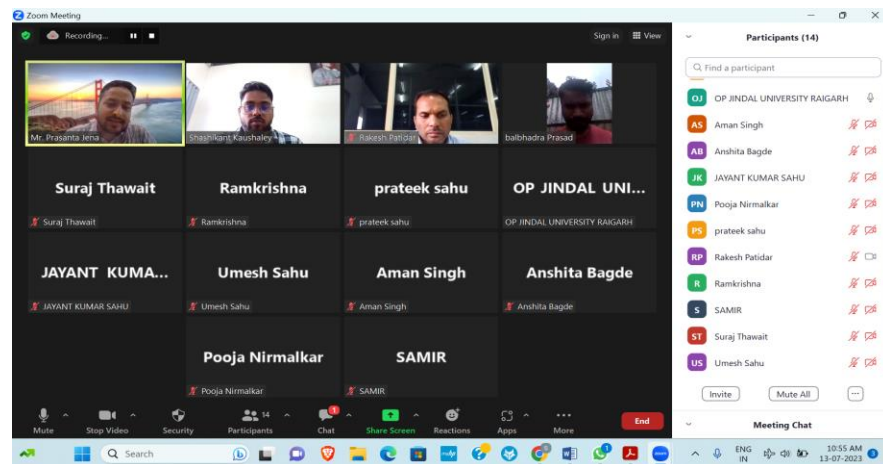
- Dr Ankireddy Narendra taking part in OPJU NAAC Signages / Beautification committee member from 14/06/2023.
- Dr Ankireddy Narendra taking part in departmental Monthly Progress Report from 03/06/2023.
- Mr. Rakesh Patidar and Mrs. Pushapanjali S. Hota are involved in various industrial visits for, MTech/BTech lateral MOU and internship opportunities for students.
- Dr Sushree Diptimayee Swain involved in various CDC activities
- Dr Sushree Diptimayee Swain involved in NAAC 1.3.4 (Last 5 years internship+5 years project report + notices) data collection
- Dr. Sushree Diptimayee Swain is involved in the work of day-care center (NFA and list of essentials), maintenance of girl's common room, etc.
- Ms. Pushpanjali S Hota, involved in Alumni documents collection and alumni talk activities for NAAC 18 point.
- Ms. Pushpanjali S Hota, involved in Alumni meet preparations scheduled at Angul on 15 July 2023.
- Ms. Pushpanjali S Hota, involved in MTech admissions related activities.
- Ms. Bhawana Deshmukh, involved in Guest Lecture preparations scheduled at Angul on 08 May 2023.
- PhD Pre Thesis Presentation has been completed for **Mr. Jiten Sao** under the supervision of Dr RD Patidar, and Dr Deeptimayee Swain on 10-05-2023
- M Tech Presentations have been completed for **2020 batch** under the coordination of Dr Deeptimayee Swain on 17-05-2023
- Industrial Training For the **Diploma 3rd** year has been scheduled and completed on 15-29th of May 2023
- Industrial Training For the **B Tech 3rd and 2nd year** have been scheduled and completed on 15-29th of May 2023

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Events & Activities

- Department of Electrical Engineering has organized a five day online training program on “Needs of Industrial Application in Electrical Engineering” from 10th-14th July 2023, Mr. Shashikant Kaushaley is the convener of the program.



- The Department of Electrical Engineering has organized “one-day workshop on career counseling” for the diploma students of Kirodimal Govt. Polytechnic, electrical students at O P Jindal University on date 18

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July 2023. Ms. Pushpanjali S Hota, Dr. Prashant Jena and Mr. Kapol coordinated the program. More than 70 students along with their faculties attended the session.



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- 1) Mr. Rakesh Patidar had attended a National Webinar on "**Sustainable Biomass Renewable Energy Supply Chain Management**" on 5 th August 2023 organized by Mandsaur University, Mandsaur (M. P.).
- 2) Mr. Rakesh Patidar had delivered an expert lecture on "**Measurement & Instrumentation**" on 19 August 2023 at Jindal Institute of Power Technology Tamnar (C. G.).
- 3) **Dr G MadhusudhanaRao** has attended the FDP on "**Recent advances in the power sector, Challenges, Solutions, and Opportunities**" conducted by EEE Department, Vidya Jyothi Institute of Technology from 31-07-2023 to 05-08-2023.

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- 4) **Ms Pushpanjali Shadangi** delivered an expert lecture on “**Concept of control system and it's industrial applications**” on 17th August 2023 at Jindal Institute of Power Technology Tamnar (C. G.).
- 5) **Ms Pushpanjali Shadangi** delivered an expert lecture on “**Basis of AC circuits and applications**” on 18th August 2023 at Jindal Institute of Power Technology Tamnar (C. G.).
- 6) **Ms Pushpanjali Shadangi** attended a Short Term Course on '**SUSTAINABLE DEVELOPMENT GOALS: CHALLENGES AND OPPORTUNITIES** ' scheduled from 21/08/2023 to 25/08/2023 to be conducted by **NITTTR, Chandigarh.**
- 7) **Ms Pushpanjali Shadangi** attended a webinar on” Future of Technology Entrepreneurship in India” dated 12th August 2023.



8. Mr. Rakesh Patidar delivered an expert talk on the topic “Applications and research challenges in microprocessor and Controller” in One-week STTP on Challenges, Applications and Techniques in Engineering Research and Design at Arka Jain University, Jamshedpur (JH) on 12th September 2023.
9. Dr Sushree Diptimayee Swain attended a FDP on “Smart Grid and Integration of Distributed Generation” during 28 August to 1 September 2023.

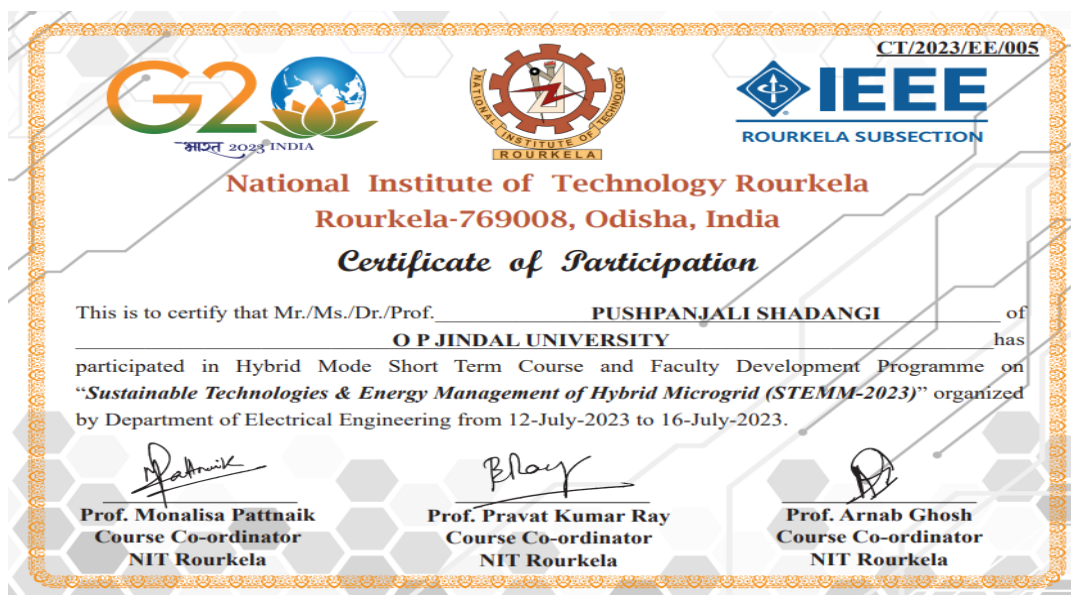
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10. Mrs Pushpanjali Shadangi attended a FDP on “Smart Grid and Integration of Distributed Generation” during 28 August to 1 September 2023.

Workshops/FDP/Seminars

1. Ms. Pushpanjali Shadangi attended 5 days STTP & workshop on “Sustainable technologies & energy management of hybrid microgrid(STEMM-2023) on 12th -16th JULY2023 organized by IEEE Rourkela section.



2. Ms. Pushpanjali Shadangi attended one day FDP on “Power System Design and Simulation using DIgSIELNT PowerFactory Software” on 17th July organized by SimulationTech.
3. Ms. Pushpanjali Shadangi attended one day FDP on “Automation System Design & Simulation using Automation Studio Software” on 7th July organized by SimulationTech.
4. Dr Ankireddy Narendra attended an IEEE sponsored 5-days FDP on “Future Trends and Advances in Electrical Engineering”, organized by Aditya Engineering College held from 05-07-2023 to 09-07-2023.

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5. Dr Ankireddy Narendra attended a 5-days FDP on “Recent Development in Electrical and Electronics: a Research Prospective”, organized by Sri Venkateswara College of Engineering and Technology held from 24-07-2023 to 28-07-2023.

Collaborations and MoUs:

1. The department of EE has collaborated with ARKA Jain University, and exchanged their MoU on 04-08-2023 for mutual capability development, Academic & Research Collaboration, and Knowledge Enrichment.

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2. Dr. G. Madhusudhan Rao, Mr. Rakesh Patidar and Mr. Kapol Nashine went to represent the Electrical Engineering for the MOU between OP Jindal University and Government Polytechnic College, Jamshedpur on 13th September 2023.



3. Teachers day is celebrated on the birth anniversary of Dr Sarvapalli Radhakrishnan on 5th September 2023 by the department of electrical engineering. Mr [Rakesh Patidar](#) and Ms [pushpanjali shadangi](#) have coordinated the program. Some cultural and fun activities were planned for faculties and students, and the event was graced by the honorable Vice chancellor sir.

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4. Mrs Pushpanjali S Hota, Mr Rakesh Patidar & Mr Rupesh Patel has organized Engineers Day Event on the theme "Recent trends in science & Technology" for all the engineering and science departments.
- ❖ Three events were organized: poster making, technical powerpoint presentation and project prototype model making competitions on 15th September 2023. Total more than 75+ students participated in all the three events. The Honorable Vice Chancellor sir addressed the gathering and motivated students for their future.

Awards/Honours:

- **Dr G Madhusudhana Rao** received **Best Paper award** in the conference ERSEM held during 19th and 20th May 2023 held at SRIT Poddatur, A.P.
- **Dr Ankireddy Narendra** received **Best Presentation award** in the conference ERSEM held during 19th and 20th May 2023 held at SRIT Poddatur, A.P.

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- Dr [Sushree Diptimayee Swain](#) received **Best Paper Award** in the conference ERSEM held during 19th and 20th May 2023, SRIT Poddatur,A.P.
- **Dr Ankireddy Narendra** received PhD Degree from NIT Rorkela on 17-05-2023
- **Dr Prashata Kumar Jena** received PhD Degree from NIT Raipur on 28-06-2023

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

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Up-gradation in infrastructure:

- ❖ The establishment of a research Lab in EE dept. has been completed and Budget for the Research lab equipment has been submitted
- ❖ The establishment of SOLAR Power Plant in the OPJU campus and installation is in progress 75KW.
- ❖ Reviewed and verified the earthing problem in the campus and the quotations have been submitted to purchase committee
- ❖ Submitted a Proposal for Installing the MCB in the OPJU campus.
- ❖ Successfully installing the sensor based lights at ground floor in admin building for energy management in the campus

Appointments:

- ❖ Dr Sushree Deeptimayee has been promoted as Associate Professor in the month of August 2023
- ❖ Ms Pushpanjali Shadangi Hota has been promoted as Sr. Assistant Professor in the month of August 2023
- ❖ Mr Satish has been promoted as Lab Instructor in the month of August 2023

Placement drives and Internships:

Total 8 students got Internships

1. Nishanth Anand	JSW
2. Sonu Kumar	SAIL
3. Ankit	Tata Steel
4. Harimadhav	IOCL
5. Ashish	Tata Steel
6. Himanshu	Tata Steel
7. Rounak Agarwal	Tata Steel
8. Sivam Panday	TP Western Odisha Distribution Lrd
9. Alwin Ailen	Madhyanchal Vidyut Vitrna Nigam Ltd
10. Aman Rathod	Tata Steel

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Important Projects:

- ❖ Industrial Visit/ Training
- ❖ Faculty Retreat