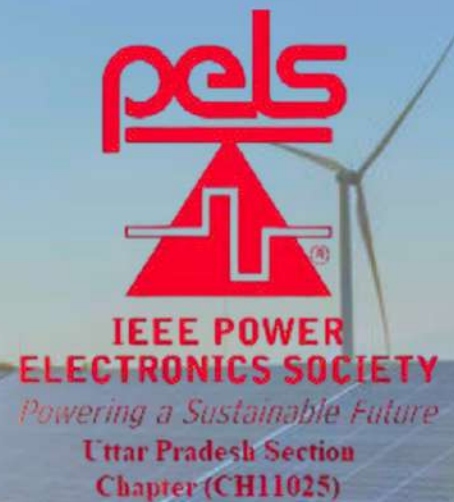


# 3<sup>rd</sup> INTERNATIONAL CONFERENCE

on

## Power Electronics & IOT Applications in Renewable Energy and it's Control

### PARC 2024



Technically and Financially Co-Sponsored by  
IEEE UP Section and IEEE PES



23-24 February 2024

ORGANISED BY

DEPARTMENT OF ELECTRICAL ENGINEERING  
GLA UNIVERSITY

<https://www.gla.ac.in/parc2024>



The International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC 2024) will be organized by Department of Electrical Engineering, GLA University, Mathura, India during 23rd -24th February, 2024 at GLA University, Mathura, India. Looking at the importance of power electronics, IoT and their applications in the modern smart grid and the increasing integration of renewable energy due to increasing environmental concerns, this conference theme is set on “Power Electronics, IoT and Renewable Energy applications”, and it is planned to further explore these research areas. This conference aims to explore the challenges in Future Grid-Interactive Power Converters regarding control strategies, optimal operation, and corrective actions.

PARC 2024 would have tutorials, keynotes, panel discussion, paper & poster presentations, and opportunities for industry/trade exhibits, with separate industry sessions and student competitions as an integral part of the IEEE conference. It would offer ample networking opportunities for scientific & industrial collaboration.

GLA University (NAAC Accredited 'A+'), started in 1998 as GLA Institute of Technology and Management. It went on to take the shape of GLA group of Institutions and finally became GLA University in the year 2010. The University is recognized by UGC as well under section 2(f). The Campus of the University has over 110 acres of lush green and expansive grounds. The University is home to more than 10,000 students. The establishment feels proud of its alumni base of more than 12000 students. The University provides education at the diploma, undergraduate, post graduate and doctoral levels in various disciplines of Science, Technology and Management. More than 500 well-qualified and experienced faculty members and 700 staff members work for the University. We envision ourselves as a pace-setting university of Academic Excellence focused on education, research and development in established and emerging professions.

## DEPARTMENT OF ELECTRICAL ENGINEERING

The department offers a vibrant environment for education and research in electrical engineering. Our mission is to provide quality education in the field of Electrical Sciences and help the students to design and develop products and practical solutions for problems in the public and private sectors. Department of Electrical Engineering is currently offering BTech in Electrical Engineering (EE) and Electrical & Electronics Engineering (EN); MTech in Electrical Engineering and MTech in Energy Systems and Ph.D in various areas of Electrical Engineering.

Since its inception, this department has contributed significantly to the growth of Electrical Engineering education and research in India. Many alumni of the department have distinguished themselves in academic institutions, research laboratories, industries, and government organizations, both in India and abroad.



## Power Electronics:

- Emerging technologies in power electronics
- Power converter topologies and design
- Multilevel and high power converters
- Grid-Interactive Power Converters
- Power electronics in HVDC, HVAC, and FACTS, dc transmission networks and other emerging power electronic based power systems
- Ancillary services through grid-interfacing power converters
- Energy storage technologies for power electronics and energy systems

## IoT Analytics for Renewable Sector:

- Next Generation IOT
- IoT Devices/Applications
- Big data analytics
- IoT Security
- Data analysis challenges in the future energy market
- Cloud analytics for Internet of Things (IoT)
- Energy Internet

## Renewable Energy:

- Renewable energy Systems(PV, Wind, Biomass, Biofuel, Geothermal Energy, Wave Energy, Tidal Energy, Hydrogen & Fuel Cells)
- Renewables penetration
- Grid integration of renewable energy systems
- Standalone and grid connected systems, principles of sustainable energy technologies and systems
- Energy storage for renewable Energy Systems

## Applications and Control:

- Power Electronics application in Power system and renewable energy generation
- IoT applications in renewable sector, control of power electronics converters
- Harmonics and harmonic stability in renewable based power plants
- Control Techniques for Renewable Energy Systems
- Future Challenges and Directions for Renewable Energy Systems

<b>IMPORTANT DATES</b>	
Paper Submission Starts	March 31st , 2023
Last date of paper submission	December 5, 2023 (Extended Date)
Acceptance Notification	July 1st 2023 Onwards
Early Bird Registration Closes	November 30th 2023 (Extended Date)
Last date of Registration	December 30th 2023
Conference Dates	February 23th - February 24th 2024

**IMPORTANT LINKS**

**Registration Links:**

<https://www.gla.ac.in/parc2024/registration.html>

**Research Paper Submission Links:**

**Home Page Link (PARC 2024):**

<https://www.gla.ac.in/parc2024/index.html>



## REGISTRATION FEES

Category	Early Bird (upto 30 Nov. 2023)		Standard	
	IEEE	Non- IEEE	IEEE	Non- IEEE
Participations from Industries / Utilities / R&D / Organizations	9,000	11,000	10,000	12,000
Participants from Academic Institutes (in INR)	7,000	8,500	8,000	9,500
Student Participants (in INR)	5,000	6,500	5,500	7,000
Foreign Participants (in USD)	250	300	350	400

## NOTE

- ✓ Author Registration fee includes access to all the paper presentation sessions of the conference, access to the tutorial session, Conference Proceedings and Conference Kit, Breakfast and Lunch during the conference period, and Gala conference dinner, Tea and Coffee during sessions, and a certificate.
- ✓ The registration fee for listeners/co-author/extra registration is [Rs 2500 (with conference kit) or Rs 1500 (without conference kit)] (India)/ \$ 75 (outside India). This registration includes access to all the paper presentation sessions, Breakfast and Lunch during the conference period, Tea and Coffee during sessions, and a certificate.
- ✓ There will also be separate registrations for the tutorial sessions. The tutorial session charges for Indian listeners/co-author/extra registration are Rs 200 for one session and Rs 300 for both sessions. For foreign participants, it is \$10/session. Tutorial registration includes access to tutorial sessions and a certificate of attendance. There will be a separate Google form for tutorial registrations.



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**Prof. R.C. Bansal**  
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University of Sharjah, UAE



**Dr. N.P. Patidar**  
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Engineering Group Supervisor  
Bechtel India



**Yugal Kishor**  
Manager R&D (Hardware)  
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