About the Workshop :

The Energy technology group of IIIT Bhubaneswar wishes to organize a 5 days national workshop from 16th-20th March, 2026 through hybrid mode. This will be one of the events of ANRF-Pair project sponsored workshop with a focus on practical case studies from industry and academia. This workshop aims to educate industry professionals and research scholars on the latest trends in sustainable development in energy technologies. According to the US Energy Information Administration, approximately 76% of India's power and 60% of the world's power comes from fossil fuels. The growing energy demand and environmental impacts are driving the global transition to sustainable and green energy. Renewable energy integration into power grids has become a focal point, attracting significant economic, environmental, and technical attention. With the rapid increase in traction loads and distributed energy resources, sustainable energy technologies, its appropriate placement, control or monitoring is an evolving and critical focus.

This workshop will give a unique opportunity to the UG/PG students, research scholars, faculty Members and industry personnel to participate and discuss the present research trends and advancements in sustainable technologies, with eminent academicians from IIT, NIT, and reputed University etc. This workshop will also involve industry experts from ETAP, MathWorks, TPNODL, etc. for sharing their practical expertise.

Course coverage :

1. Power System Challenges in Renewable Microgrids and the Emerging Role of Green Hydrogen
2. Resilient Power System State Estimation
3. Solar PV and Green Hydrogen: Fuel of the Future
4. Power System Protection
5. Power Electronics Applications in Power Systems
6. Power Quality & Power System Operation and Control
7. Energy Management in Microgrid with Hydrogen Integration
8. Control Strategies for Microgrid
9. Transformer failure analysis and its preventive maintenance

Lab Sessions :

1. Simulation of Hybrid Microgrid System by ELMAX
2. Hands on Session using ANSYS

Speakers :

- **Prof. Subhransu R Samantaray** *(IIT Bhubaneswar)*
- ***Prof. Srinivas Bhaskar Karanki*** *(IIT Bhubaneswar)*
- **Prof. Prakash Kumar Hota** *(DRIEMS University)*
- **Prof. Pravat Kumar Ray** *(NIT Rourkela)*
- **Prof. Sukriti Tiwari** *(NIT Calicut)*
- **Prof. Prashant Malik** *(MNNIT Allahabad)*
- **Prof. Basant Kumar Sethi** *(SVNIT Surat)*
- **Prof. Debi Prasad Das** *(IMMT Bhubaneswar)*
- **Er. Amresh Satapathy** (*TPNODL*)
- **Shubhrajyoti Moitra** *(ELMAX Systems and Solutions)*

Anusandhan National Research Foundation

NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

IIIT BHUBANESWAR

ANRF-PAIR Outreach Activity

National Workshop on

" Microgrids and Green Hydrogen : Emerging Solutions for Smart & Sustainable Energy Systems "

16th - 20th March 2026

Hybrid Mode

Organizing Members :

- **Dr. Sanjeev Kumar Mishra**
- **Dr. Usharani Raut**
- **Dr. Surya Prakash Singh**
- **Dr. Umamani Subudhi**
- **Dr. Debani Prasad Mishra**

Organized by :

Energy Technology group
ANRF-PAIR Project
IIIT Bhubaneswar
Gothapatana, Bhubaneswar, Odisha 752054

About IIIT bhubaneswar :

The ***Interational Institute of Information Technology (IIIT) Bhubaneswar***, established by the Odisha Government in 2006 and becoming a unitary university in 2014, is a premier institution focused on IT and allied fields. We aim to be a leading center for education, research and consulting, developing talent to drive societal and economic progress. Our dynamic academic environment, enriched by advanced technologies, prepares students, faculty, and researchers to meet global challenges. Our goal is to be a knowledge seeking Institution of higher learning that will educate students in technology and other disciplines of scholarship. We are committed to the entire value chain of knowledge creation, diffusion and preservation to meet the challenges of the century. We borrow best practices in education delivery systems, research and consulting practices. Leveraging technology to bring about next generation of practices will be a key to this strategy.

About ANRF-PAIR :

The ANRP Act, 2023, assented to by the President on 12 August 2023, establishes the Anusandhan National Research Foundation (ANRF) as the apex national institution for providing strategic direction to research, innovation, and entrepreneurship in India.

The PAIR programme is designed to achieve a strong research culture across Indian universities through a structured mentorship-based model that pairs high-potential institutions with leading research-intensive institutions. PAIR supports internationally competitive and high-impact research, and advances institutions through improved research quality, and systematic infusion of best practices.

Contact us :

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Online Account Details :

Account No. : **173111100001477**
Account Name : **IIIT Bhubaneswar**
IFSC No. : **UBIN0817317**
Bank Name : **Union Bank of India**
Branch : **Gothapatna Branch**

Online Registration Form :

https://forms.gle/Kq1RHwcLfqhTSMrD9

Important Dates :

- Registration Deadline : ***15th March 2026***
- Workshop Date : ***16th - 20th March 2026***

Registration Details :

Category	Online Registration Fee (Including 18% GST)	Offline Registration Fee (Including 18% GST)
Research Scholars / PG / UG Students	Rs. 500 /-	
Faculty from Engineering Institutes	Rs. 500 /-	Rs. 700 /-
Engineers from Industry and R&D Organizations	Rs. 700 /-	Rs. 1000 /-

Note : **Accomodation & food extra for offline participants.**