



Indian Institute of Technology (IIT) Bhubaneswar came into existence in July 22, 2008 with a mission of

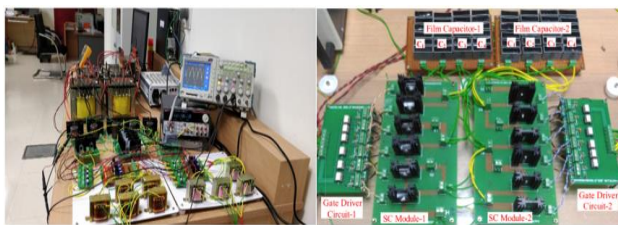
Electrical Engineering (EE) group at School of Electrical Sciences of IIT Bhubaneswar is a vibrant mix of multi-disciplinary research areas within electrical power domain. With a focus on quality teaching and research in cutting edge technology at the core, the School offers B. Tech, M. Tech and PhD programs in broad areas of power and energy domain.

A: Primary Focus Areas of Research

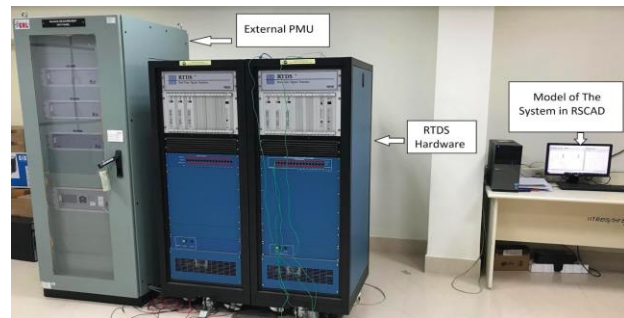
1. Smart Grid Technology
2. Power Electronics
3. Power Systems
4. Micro Grids and Renewables
5. High Voltage Applications

B: Research Laboratories/Applications

Power Electronics: High step-up dc-dc converters, low cost and high efficient multilevel inverter, Power electronics for renewable energy sources, energy storage and power quality, Switched Mode Power Converters etc.



Power Systems: Micro-grid protection, distribution protection with DG's, fault analysis, auto-reclosing schemes, RTDS simulation.



Smart Grid: Renewables integration, optimum energy and demand side management, congestion management, data analytics, automation, Advanced Metering Infrastructure, Grid monitoring, Machine learning applications in power systems etc.

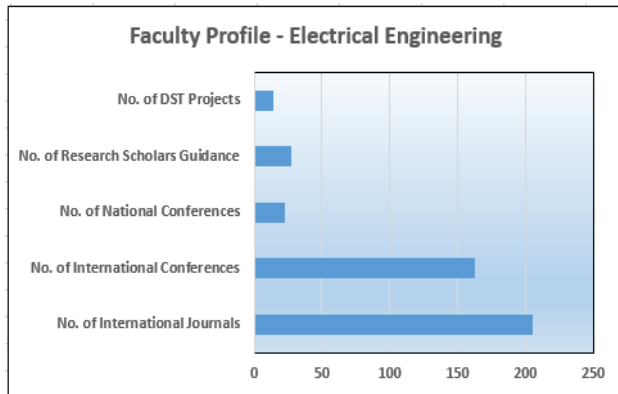


High Voltage Applications: Diesel engine exhaust treatment using dielectric barrier discharge technique.





C: Faculty Research Profile



D: Awards and Recognition

- POSOCO Awards – 6
- INAE Best Thesis Awards – 3
- Early Career Research Grants – 2
- Consultancy Projects – 3
- International Patents - 17

