

## Department of Electrical Engineering

### Research Expertise List

Sl. No.	Research Area	Name of Faculty
1	Power Quality, Power System, Power Electronics, Electric Machines	Dr. (Mrs.) Shubhrata Gupta
2	Model Order Reduction and Power Systems	Mr. P.D. Dewangan
3	Measurement & Instrumentation, Signal & Image Processing, Medical Instrumentation, Brain-Computer Interfacing, Speech Signal Processing, Artificial Intelligence, Machine Learning	Dr Narendra D. Londhe
4	Control System, Optimization, Energy Storage, Fractional Calculus, Renewable energy	Dr. Subhojit Ghosh
5	Power Systems, Energy Systems, Renewable Energy and Microgrid, Solar Systems Design and Implementation	Dr. R N Patel
6	Power system protection, Protection of Flexible AC Transmission System, Micro-grid and Smart Grid, Artificial Intelligence techniques and its application in Power System, Computer Engineering and Electrical Systems	Dr. Anamika Yadav
7	Power Electronics and its application to Electric drives and renewable sources	Dr. Sachin Jain
8	Power System Protection, Application of Soft Computing Techniques in power system, Microgrid, Renewable energy	Dr. Ebha Koley
9	Power system protection, Microgrid Protection, Smart grid, Application of signal processing tools in power system protection	Dr. Monalisa Biswal
10	Power electronics converter application for Electric Vehicle, and for Grid-integrated renewable energy system	Dr. Swapnajit Pattnaik
11	Electric and Hybrid Electric Vehicle, Electric Vehicle Charging	Dr. Lalit Kumar Sahu

	System, Renewable and Hybrid Energy System, Power Electronics Converter	
12	Power system control, optimization techniques, renewable energy systems and application of AI in RES.	Dr B. Shaw
13	High Voltage Engineering	Dr K Chandrasekaran
14	Power electronics converters, soft-computing in power Electronics applications, renewable energy sources applications in Power Electronics	Dr. Varsha Singh
15	Power System Network Planning and Management, Smart Grid and Microgrid, Energy Management and Demand Side Management	Dr. Baidyanath Bag