

Department of Electrical & Electronics Engineering

IPR Achievements

Faculty patent

ACADEMIC SESSION CAY-2025-2026

S. No.	Title of Patent	Inventor(s) (Alphabetical Order)	Application No.	Filing Date	Publication Date
1	A Cloud-Integrated IoT Energy Management System for Smart Homes and Smart Cities with Adaptive Demand Response	Dr. Hemant Mahala, Dr. Naveen Asati, Rashmi Saxena, Sarvesh Pratap Singh, Satendra Katare	202521099781 A	15-10-2025	14-11-2025
2	An Adaptive Wireless Charging System for Multi-Device Energy Transfer Optimization	Dr. Santosh Kumar Vishwakarma, Dr. Sujeet Kumar Soni, Dr. Syed Uvaid Ullah, Shriyansh Jain, Vishwanath Tiwari	202521086992 A	12-09-2025	26-09-2025
3	An AI-Driven Dynamic Voltage Regulation and Stability Enhancement Framework for Renewable Energy Integration in Smart Power Networks	Dr. Manju Khare, Dr. Santosh Kumar Vishwakarma, Dr. Sujeet Kumar Soni, Dr. Syed Uvaid Ullah, Manvendra Singh Kaurav	202521089517 A	19-09-2025	03-10-2025
4	Ant Colony Optimization and LSTM-Based Hybrid System for Solar PV Array Reconfiguration	Shriyansh Jain	205221074979 A	06-08-2025	15-08-2025
5	Dynamic Modeling and Control of a Solar PV and Hydrogen Fuel Cell Hybrid Energy System	Dr. Anand Singh	202521008724	14-04-2025	02-05-2025
6	FFT-Based Signal Analysis and Efficiency Improvement in Multistage OPAMPs on 0.18 μm SCMOs	Dr. Anand Singh	202521128000	21-03-2025	04-04-2025
7	Mobile Solar-Assisted Farm Produce Drying and Handling Device	Dr. Rakeshwri Agrawal	202621008724	28-01-2026	Under Review