

Department of Electrical & Electronics Engineering

Publication

RESEARCH PAPER

ACADEMIC SESSION CAY-2025-2026

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2	AI Enhancement To Replace Rigid PI Controller With Adaptive System: A Review	Dr. Vikram Singh	February 2026	IJEASM	February 2026	7	2582 - 6948	1	6
3	Application of Direct Torque Control in Robotic Actuation System: Performance Analysis and Industrial Relevance – A Review	Kamlesh Kumar Vishwakarma; Dr. Vikram Singh	January 2026	International Journal of Engineering Applied Science and Management	January 2026	7	2582 - 6948	1	9
4	Design and Functional Analysis of Battery Energy Storage Systems for Renewable Power Applications	Shriyansh Jain	December 2025	IJAEECE	December 2025	14	12	126	134
5	Direct Torque Control of Permanent Magnet Synchronous Motor Electric Vehicle Drive by Using Fuzzy Logic Based Controller	Dr. Vikram Singh	8 April 2025	International Journal for Technological Research in Engineering	April 2025	12	2347 - 4718	1	6
6	Economic Load Dispatch With The Help Of Artificial Bee Colony Technique	Manvendra Singh Kaurav	DOI: 10.15680/IJIRSET.2025.1401034	IJIRSET	January 2025	14	2319 - 8753	281	290
7	GRID-CONNECTED SOLAR PV SYSTEM WITH MPPT FOR BATTERY ENERGY STORAGE: A REVIEW	Dr. Nand Kishore	February 2025	The Splendid Journal	February 2025	3	3048 - 748 X	1	6

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9	Optimization of Hybrid Energy System for Optimum Power Flow	Dr. Naveen Asati	February 2025	IJIRSET	February 2025	14	2347 - 6710	1306	1313
10	Optimized Energy Storage System for Enhanced EV Performance	Sandeep Kumar	8 August 2025	Journal of Emerging Technologies and Innovative Research	August 2025	12	2349 - 5162	409	416
11	Power Quality Improvement of Solar Based G2V Integration System Using PI Controller	Dr. Sujeet Kumar Soni; Dr. Vikram Singh	DOI: 10.15680/IJIRSET.2025.1401074	IJIRSET	January 2025	14	2319 - 8753	541	547
12	Review of Hybrid Energy Storage System for Enhanced EV Performance	Sandeep Kumar	2 February 2025	International Journal of Recent Development in Engineering and Technology	February 2025	14	2347 - 6435	34	39
13	Resilient Protection Strategy for PV-fed DC Microgrid with Immunity to Intermittency and Outage of PVDG Using GWO-Tuned LSTM	Vishwanath Tiwari	—	—	—	—	—	—	—
14	Space Vector Modulation-Based Direct Torque Control (DTC-SVM) for Robotic Applications	Kamlesh Kumar Vishwakarma; Dr. Vikram Singh	5 January 2026	International Journal for Technological Research in Engineering	January 2026	13	2347 - 4718	19	22
15	Sensitivity Analysis of Sustainability Dimensions in Multi-Criteria Decision-Making Approaches	Rakeshwri Agrawal	DOI: 10.1007/s41660-025-00649-x	Springer Nature	9 December 2025	—	2509 - 4246	—	—
16	Total Harmonic Distortion of Bidirectional AC-DC Microgrid System for PV Application	Dr. Nand Kishore	June 2025	IJRARMT	June 2025	3	3048 - 9458	—	—

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18	Energy Audit: A Case Study of an Academic Hostel Uttam Nagar Delhi	Dr. Naveen Asati	DOI: 10.15662/IJAREEIE.2025.1406020	IJAREEIE	June 2025	14	2278 - 8875	1941	1945