

## SCHOOL OF ELECTRICAL ENGINEERING

### Extension Lectures Delivered by Outside Experts/Outside Faculty in the School and in-house Faculty outside the School/University (2024-25):

Sl. No	Name of the Faculty	Title of the seminar/conference and dates & year	Title of the Talk	Organizing agency	Invited lecture/Resource person/Keynote speaker/Paper presenter/Plenary speaker	National/International (abroad)/International (within the country)/State/University
1.	Dr. Abhijit Kulkarni	30-04-25 to 30-04-2025	Power Architecture and Battery Management Systems for Urban Air Mobility Applications	SMVDU	Resource Person	University
2	Dr. Manohar Singh	21-04-2025 to 21-04-2025	Planning of Indian Power Sector to host the renewable and energy security	SMVDU	Resource Person	University
3.	Dr. Ankireddy Narendra	FDP on AI-Powered Smart Grids: Advancing Resilient and Equitable Energy Systems	Digital Twin & AI in Power Electronics Design and Optimization	Department of Electrical Engineering, OP Jindal University, Raigarh (C. G.)	Keynote Speaker	National

		16-06-2025 to 20-06- 2025				
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**Research Publications (with full details in below format) for 2024-2025:**

**For chapters in a book (2024-25):**

Sl. No	Name of the Faculty	Title of the chapter	Title of the book	Editors (Mention all Editors)	Name of the publisher Indicate National or International	ISBN No. and year of publication
1	Dr. Jatinkumar Soni	Effective Multi-objective Dynamic Economic Emission Dispatch Optimization with Electric Vehicles Using Hybrid Oppositional-Based Learning Sine Cosine Algorithm	Role of Nature-Inspired Algorithms in Real-Life Problems	Vanita Garg, Kusum Deep	Springer, Singapore (International)	978-981-97-4715-3 (March 2025)
2	Dr. Jatinkumar Soni	Development of Nature-Inspired Algorithms for	Using Computational Intelligence for Sustainable Manufacturing	Kamalakanta Muduli, Bikash Ranjan Moharana, Steve Korakan	IGI Global (International)	9798369379745

		Intelligent Manufacturing Systems	of Advanced Materials	Ales , and Dillip Kumar Biswal		
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**For paper (2024-25):**

Sl. No.	Name of Author	Title of paper	Name of the Journal: ISSN No.: Dol: (ISSN or Dol)	Volume: Issue No.: Year: Page Nos.:	Specify: Peer-reviewed/ UGC / SCOPUS Impact factor: (if available)
1	Tirumalasetty Chiranjeevi	Assessment of voltage harmonic compensation with H-bridge circuit using EMD derivatives	Computers and Electrical Engineering, 1879-0755, <a href="https://doi.org/10.1016/j.compeleceng.2024.110049">https://doi.org/10.1016/j.compeleceng.2024.110049</a>	<a href="#">123(Part A)</a> , 2025, 110049	SCIE, IF: 4.9
2	Ankireddy Narendra	Power Estimation in Three-Phase PWM Rectifiers Using ANN	ECTI Transactions on Electrical Engineering, Electronics, and Communications, 1685-9545, <a href="https://ph02.tci-thaijo.org/index.php/ECTI-EEC/article/view/253979/171887">https://ph02.tci-thaijo.org/index.php/ECTI-EEC/article/view/253979/171887</a>	<a href="#">23(1)</a> , <a href="#">2025,1-10</a>	Scopus

3	Kamaldeep Boora	Harnessing solar energy: Hardware implementation of solar power inverter	Al-Qadisiyah Journal for Engineering Sciences, 2251-7960. <a href="https://www.scopus.com/sourceid/21101196156">https://www.scopus.com/sourceid/21101196156</a>	18(2), 2025, 221-232	Scopus
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**Conferences/Workshops/Seminars/Short-term Courses/FDP/MDPs/Attended/Presented (2024-25)**

Sl. No	Name of the Faculty	Title of the Seminar/Conference/Workshop and Dates & Year	Title of the Talk (if presenter)	Organizing agency	Invited lecture/Resource person/Keynote speaker/Paper presenter/Plenary speaker  Or  Simply Attended	National/International (abroad)/International (within the country)/State/University
1	Dr. Jatin Soni	2025 International Conference on Computing, Intelligence, and Application (CIACON)	Efficient Solution of Static Economic Load Dispatch Using Sine Cosine Algorithm: A Comparative Analysis with Various	DR B C Roy Engineering College India (IEEE conference)	Paper Presenter	International

			Test Systems			
2	Dr. Jatin Soni	2025 IEEE 14th International Conference on Communication Systems and Network Technologies (CSNT)	Artificial Ecosystem-Based Optimization for Solving the Multi-Objective Economic Emission Load Dispatch Problem with Wind-Solar-Thermal Integration and Uncertainty Handling	VIT Bhopal University (IEEE conference)	Paper Presenter	International
3	Mr. Shubham Chib	International Conference on Multidisciplinary Research for "Sustainable Future" (ICMRSF-25) (28/02/2025 to 01/03/2025)	A hybrid Low-High Frequency Modulation technique	SMVDU	Paper Presenter	National
4	Mr. Shubham Chib	International Conference on Multidisciplinary Research for "Sustainable Future" (ICMRSF-25)	Optimal Control of Higher Order Closed-Loop	SMVDU	Paper Presenter	National

		(28/02/2025 to 01/03/2025)	DC-DC Converters using Twin Delayed Deep Determinis tic (TD3) Policy Gradient algorithm			
5	Mr. Shubham Chib	International Conference on Multidisciplinary Research for “Sustainable Future” (ICMRSF-25) (28/02/2025 to 01/03/2025)	Improved Control Scheme for Battery Manageme nt System using Deep Reinforce ment Learning Methods	SMVDU	Paper Presenter	National
6	Mr. Shubham Chib	International Conference on Multidisciplinary Research for “Sustainable	Switching Angle Optimizati on	SMVDU	Paper Presenter	National

		Future” (ICMRSF-25) (28/02/2025 to 01/03/2025)	for Multi- level Inverters  using Deep Reinforce ment  Learning methods			
7	Mr. Shubham Chib	International Conference  on Multidisciplinary  Research for “Sustainable Future” (ICMRSF-25) (28/02/2025 to 01/03/2025)	Improved DC Bus Utilization in Multi-level Inverters using Poly- harmonic Reference signals	SMVDU	Paper Presenter	National

#### Conferences/ Seminars /Workshops/FDPs/MDPs Organized (2024-25)

Sl. No	Title of the Seminar/Conference/ Workshop/Etc. and Dates & Year	Organiser’s Name	Role	Organizing agency	National/ International / Regional
1	Power Architecture and Battery Management Systems for Urban Air	Dr. T. Chiranjeevi, Dr.	Coordinator	SMVDU	Regional

	Mobility Applications, 30-04-25	Ankireddy Narendra			
2	Planning of Indian Power Sector to host the renewable and energy security, 21-04-25	Mr. Akash Deep	Coordinator	SMVDU	Regional