

	Dr. Nitesh Tiwari Dean Research & Development and Assistant Professor, KIPM College of Engineering and Technology, Gorakhpur, U.P., India. Contact No. +91-9458704552 Email - niteshwr1994@gmail.com niteshtiwari@mmm.ut.ac.in dr.nitesh@kipm.edu.in			Personal Details	
				Date of Birth: 11-03-1994 Father Name: Sri Radha Raman Tiwari Mother Name: Smt. Anju Devi Marital Status: Unmarried Languages: English, Hindi Nationality: Indian	
Professional & Academic Qualifications	Examination	Discipline	Board/University	Year of Passing	
	Ph.D.	Electrical Engineering	MMMUT Gorakhpur	2023	
	M. Tech	Electrical Engineering	MMMUT Gorakhpur	2018	
	B. Tech	Electrical & Electronics Engineering	AKTU Lucknow	2015	
	Intermediate	PCM	UP Board	2010	
	High School	Science	UP Board	2008	
Thesis/ Academic Project	Ph.D. - Intelligent Control Aspects of Electric Vehicle Drives and Charging Infrastructure Supervisor – Dr. Shekhar Yadav, Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur, U.P., India Co-Supervisor - Prof. Sabha Raj Arya, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, Gujarat, India) M.Tech - Speed Control and Energy Management of EV/HEV using PID and Fuzzy Logic Controller (Supervisor – Prof. A. N. Tiwari) B.Tech - Hardware project on the topic “Smart City: A Next Generation Technology (Supervisor – Ms. Vidushi Gupta)				
Professional Experience	Assistant Professor, KIPM College of Engineering and Technology, Gorakhpur, since 28 June 28-June-2018 to date. (7 Years’ Experience in Teaching and Research)				
Responsibilities (Administrative Experience)	<ul style="list-style-type: none">➤ Dean, Research and Development (From 2025 to date)➤ Associate Dean Academics (For academic session 2024-2025)➤ Vice President, Institution’s Innovation Council (IIC), under the AICTE Innovation Program, 2024.➤ Member of AICTE Committee, KIPM CET Gorakhpur (2023 to 2024)➤ Member of NBA Committee, KIPM CET Gorakhpur (2020 to date)➤ Member of Editorial Board, KIPM CET Gorakhpur (2020 to date)➤ In-charge NSS, KIPM CET Gorakhpur (2019 to date)➤ Startup Activity and YUKTI Coordinator (2022 to 2024)➤ Institute Publication Co-Coordinator (2021 to date)				
Simulators	1. MATLAB/SIMULINK 2. PSPICE 3. LABVIEW				
Award	Certificate for extraordinary service and dedication towards human right protection, promotion, and public awareness presented by Teesri Aankh Human Rights Organization, Gorakhpur (U.P.), Reg. by Govt. of India (T.M No. 3439505)				
Membership	<ul style="list-style-type: none">➤ Professional Member of the Automatic Control & Dynamic Optimization Society since 2021 to date.➤ Associate Member of the International Society for Development and Sustainability (ISDS) since 2022.➤ Member of the Editorial Board of the international journal “Advances in Environment and Energies” (ISSN: 2833-6046) since 2022.				
Reviewer	<ul style="list-style-type: none">➤ International Journal of “Optimal control, applications and methods”, Wiley online library. (SCIE).➤ International Journal of Power Electronics and Drive Systems (IJPEDS) (ESCI).				
	<ul style="list-style-type: none">➤ ATAL Online 6 Day Faculty Development Programme (FDP) on the topic “Intelligent Control Aspects of Electric Vehicle Drives and Charging Infrastructure”, Role of Power				

Resource Person	<p>Electronics in Electrical Vehicle Technology, Organized by Department of Electrical and Electronics Engineering, KKR & KSR Institute of Technology and Sciences, Guntur, AP, India. (Date - 25-11-2024 to 25-11-2024), (1730528217).</p> <p>➤ Keynote Address on the topic “Modern Electric Drive Systems for E-Mobility” during the International Conference on Emerging Trends in Engineering, Science and Management (ETESM-2025), organized by Echelon Institute of Technology, Faridabad, Haryana, India, held on June 14–15, 2025.</p>					
Patent	<p>➤ S. Yadav, N. Tiwari, and R. K. Yadav, “Multi-input and multi-control bidirectional EV charging station”, Filed (202511051810)</p>					
External Funded Project	PI's	Title	Funded Agency	Duration	Amount	Status
	S. Yadav, P. Tiwari, A. Kumar, and N. Tiwari	Design and Development of Intelligent Controller for Solar-powered based Electric Boat and its Charging System for Ramgarh Taal/ Rapti River of Gorakhpur	CSTUP	3 Years (2024-2027)	19.08 Lakh	Running
Publications in the International Journal (SCI/SCIMago)	<ol style="list-style-type: none"> 1. S. Kaul, N. Tiwari, S. Yadav, and A. Kumar, “Comparative Analysis and Controller Design for BLDC Motor Using PID and Adaptive PID Controller” <i>Recent Advances in Electrical & Electronic Engineering</i>, vol. 14, no. 6, pp. 671-682, 2021. ISSN-2352-0973. (doi.org/10.2174/2352096514666210823152446). 2. N. Tiwari, S. Yadav, and S.R. Arya, “Speed Control of Battery and Supercapacitor Powered EV/HEV using PID and Fuzzy Logic Controller” <i>International Journal of Innovative Computing and Applications</i>, vol. 13, no. 2, pp. 97-114, 2022. ISSN-1751-6498. (doi.org/10.1504/IJICA.2022.123225). 3. N. Tiwari, S. Yadav, and S.R. Arya, “Battery and super capacitor powered energy management scheme for EV/HEV using fuzzy logic controller and PID controller” <i>International Journal of Power Electronics</i>, vol. 15, no. 3-4, pp. 309-333, 2022. ISSN-1756-6398. (doi.org/10.1504/IJPELEC.2022.122411). 4. N. Tiwari, S. Yadav, and S.R. Arya, “A Comprehensive Review of Indian Market Scenario and Motor Used in Electric Vehicle”, <i>Recent Advances in Electrical & Electronic Engineering</i>, vol. 16, no.4, pp. 347–361, 2023. ISSN- 2352-0973. (doi.org/10.2174/2352096516666221130145206). 5. N. Tiwari, S. Yadav, and S.R. Arya, “Multi-objective metaheuristic optimised PI gains of model reference adaptive controlled induction motor drive for electric vehicle”, <i>International Journal of Vehicle Performance</i>, vol. 9, no.3, pp. 272-289, 2023. ISSN- 1745-3208. (doi.org/10.1504/IJVP.2023.131973). 6. A. Saxena, A. Gupta, and N. Tiwari “Design and Implementation of Adaptive and Artificial Intelligence Controller for Brushless Motor Drive Electric Vehicle”, <i>SAE International Journal of Electrified Vehicles</i>, vol. 13, no.1, pp. 37-48, 2023. ISSN- 2691-3755. (doi.org/10.4271/14-13-01-0003). 7. S. Patel, S. Yadav, and N. Tiwari, “Design and Optimization of PI Controller for Multiple-Output Wireless Electric Vehicle Charger”, <i>Recent Advances in Electrical & Electronic Engineering</i>, vol. 16, no. 6, pp. 600-610, 2023. ISSN- 2352-0973. (doi.org/10.2174/2352096516666230417084431). 8. N. Tiwari, S. Yadav, and S.R. Arya, “PI Gain Optimisation and Artificial Intelligence based Direct Torque Control of Induction Motor Equipped Electric Vehicle Drives”, <i>International Journal of Electric and Hybrid Vehicles</i>, vol. 15, no. 2, pp. 151-182, 2023. ISSN- 1751-4096. (doi.org/10.1504/IJEHV.2023.132034). 					

**Publications in
the International
Journal
(SCI/SCIMago)**

9. U. Shukla, S. Yadav, **N. Tiwari**, and A. Priyadarshini, "Optimisation of PI Controller for Design and Modelling of Cuk, Forward, and SEPIC Converter", *International Journal of Power Electronics*, vol. 18, no. 2, pp. 201-234, 2023. ISSN-1756-6398. ([10.1504/IJPELEC.2023.10053523](https://doi.org/10.1504/IJPELEC.2023.10053523)).
10. **N. Tiwari**, S. Yadav, and S.R. Arya, "Artificial Intelligence and PI Gain Optimisation for Sensorless Indirect Vector Control of Induction Motor-based Electric Vehicle Drives", *International Journal of Ambient Energy*, vol. 45, no. 1, pp. 1-18, 2024. ISSN- 2162-8246. (<https://doi.org/10.1080/01430750.2024.2315485>)
11. S. Patel, S. Yadav, and **N. Tiwari**, "Performance Improvement of BLDC Motor Driven Electric Vehicle Using Different Metaheuristic Optimisations Based Techniques", *International Journal of Powertrains*, vol. 13, no. 3, pp. 248-268, 2024. ISSN- 1742-4275. ([10.1504/IJPT.2024.142179](https://doi.org/10.1504/IJPT.2024.142179))
12. A. Priyadarshini, S. Yadav, and **N. Tiwari** "Buck Converter Based Transformer-less Electric Vehicle Charger Using Artificial Intelligence Controllers", *International Journal of Powertrains*, vol. 13, no. 2, pp. 156-177, 2024. ISSN- 1742-4275. ([10.1504/IJPT.2024.140132](https://doi.org/10.1504/IJPT.2024.140132))
13. S. Patel, S. Yadav, and **N. Tiwari**, "Deep Learning-Enhanced Direct Torque Control of BLDC Motors for Optimized Electric Vehicle Performance", *SAE International Journal of Connected and Automated Vehicle*, vol. 8, no. 1, pp. 1-19, 2025. ISSN- 2574-075X. (<https://doi.org/10.4271/12-08-04-0036>)
14. A. Singh, S. Yadav, **N. Tiwari**, D. K. Nishad, and S. Khalid "Optimized PID controller and model order reduction of reheated turbine for load frequency control using teaching learning-based optimization", *Scientific Reports – Nature*, vol. 15, no. 1, pp. 1-34, 2025. ISSN- 2045-2322. (<https://doi.org/10.1038/s41598-025-87866-z>)
15. A. Priyadarshini, S. Yadav, and **N. Tiwari** "Smart Multioutput Fast Charger for Electric Vehicles Using Deep Learning Controllers", *e-Prime-Advances in Electrical Engineering, Electronics and Energy*. vol. 12, no. 1, pp. 1-12, 2025. ISSN- 2772-6711. (<https://doi.org/10.1016/j.prime.2025.100975>)
16. A. Singh, S. Yadav, **N. Tiwari**, D. K. Nishad, and S. Khalid "Model Order Reduction of Boiler System Using Nature-Inspired Metaheuristic Optimization of PID Controller", *Discover Applied Sciences*, vol. 7, no. 5, pp. 1-36, 2025. ISSN- 3004-9261. (<https://doi.org/10.1007/s42452-025-06927-0>)
17. S. Patel, S. Yadav, and N. Tiwari "Charging Perspectives and Implementation Strategies for Dual Active Bridge Converter in Electric Vehicles", *International Energy Journal*, vol. 25, no. 1A, pp. 91-98, 2025. ISSN- 1513-718X. (<https://doi.org/10.64289/iej.25.01A05.7354037>)
18. A. Singh, S. Yadav, **N. Tiwari**, and S. Patel, "Performance Enhancement of DC Motor Drive for Electric Vehicle Application by Using Deep Neural Network", *International Journal of Innovative Computing and Applications*, vol. 15, no. 3, pp. 145-155, 2025. ISSN- 1751-6498. (<https://doi.org/10.1504/IJICA.2025.148630>)
19. V. K. Tiwari, A. Kumar, S. Yadav, and **N. Tiwari** "Improved Performance of Solar, Battery, and Supercapacitor Powered BLDC Motor-based Electric Vehicle Using Nature-Inspired Optimizations" *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*, vol. , no. , pp. , 2025. ISSN- 2364-1827. (<https://doi.org/10.1007/s40998-025-00899-y>)
20. A. Singh, S. Yadav, and **N. Tiwari**, "Enhanced Control of Two-Link Robot Manipulators via LQR-Tuned Sliding Mode Approach", *Engineering Research Express*, vol. 7, no. 4, pp. 1-17, 2025. ISSN- 2631-8695.

	<ol style="list-style-type: none"> 21. A. Singh, S. Yadav, N. Tiwari, and S. Patel, “Deep Learning-Based Controller Design and Performance Enhancement of BLDC Motor Drive for Electric Vehicle Technology”, <i>Accepted in International Journal of Powertrains</i>. ISSN- 1742-4275. 22. N. Tiwari, S. Yadav, and S.R. Arya, “Vehicle Condition, Parking, Communication, Charging, and Energy Management scheme for Internet of Things (IoT) Based Smart Electric Vehicle” <i>Communicated in Serbian Journal of Electrical Engineering</i>. ISSN- 2217–7183. 23. N. Tiwari, S. Yadav, and S. R. Arya, “Multi-Control Multi-Objective Optimization for Bidirectional Electric Vehicle Charging Station with Improved Power Quality”, <i>Communicated in Circuit World (Emerald Publishing)</i>. ISSN- 0305-6120. 24. N. Tiwari, V. Sharma, A. K. Pandey, A. Sharma, S. Yadav, A. K. Maurya, and P. K. Srivastava, “Novel Hardware Design and Control of Multifunctional Wireless Amphibious Robot”, <i>Communicated in International Journal of Systems, Control and Communications</i>. ISSN- 1755-9359. 25. S. Patel, S. Yadav, and N. Tiwari “Performance Evaluation of Cascade, Interleaved, and Inverting DC-DC Converter by Evolutionary Optimization Techniques”, <i>Communicated in Journal of Energy Storage</i>. ISSN- 2352-1538. 26. S. Patel, S. Yadav, and N. Tiwari “Performance Evaluation of High-Efficiency Cascade, Interleaved, and Inverting DC-DC Converter by Evolutionary Optimization Techniques”, <i>Communicated in Journal of Optics</i>. ISSN - 2040-8986. 27. A. Priyadarshini, S. Yadav, and N. Tiwari “Dynamic Analysis of a Hybrid Electric Vehicle Powered by Battery, Supercapacitor, and Fuel-cell Integrated with Buck-Boost Converters and Energy Management System”, <i>Communicated in Iranian Journal of Science and Technology, Transactions of Electrical Engineering</i>, 2025. ISSN- 2364-1827.
<p style="text-align: center;">Publications in the International Journal (Non-SCI)</p>	<ol style="list-style-type: none"> 1. A. Dwivedi, N. Tiwari, S. Mishra, and N. Prajapati “Analysis of Different Method used in Reactive Power Compensation: A Review” <i>International Journal of Electrical Power System and Technology</i>, Vol. 7, no 1, pp. 1-12, 2021. ISSN - 2455–7293. 2. A. Dwivedi, N. Tiwari, K. Tripathi and S. Baudh, “Types of Motors Used in Electric Vehicles”, <i>Journal of Control & Instrumentation</i>, Vol 11, no 2, pp 1-9, 2020. ISSN: 2229-6972. (https://doi.org/10.37591/joci.v11i2.4233). 3. A. Sahani, H. Singh, A. Dwivedi and N. Tiwari, “A Review of The Power Source Used to Operate the Electrical Vehicles”, <i>I-manager’s Journal on Electrical Engineering</i>, Vol. 13, no. 2, pp. 40-49, 2019. ISSN-2230-7176. (https://doi.org/10.26634/jee.13.2.15894). 4. N. Singh, A. Sharma, A. Dwivedi and N. Tiwari, “Internet of Things (IoT) based Home Automation: A Review” <i>I-manager’s journal on digital signal processing (JDP)</i>, vol. 6, no. 4, pp. 20-27, 2019. ISSN-2322-0368. (https://doi.org/10.26634/jdp.6.4.15955). 5. A. Dwivedi, P. Rajbhar and N. Tiwari, “Long Distance Power Transfer Technique: A Review” <i>Journal of mechatronics and Robotics</i>, Vol. 3, pp. 208-214, 2019. ISSN-2617-0353. (https://doi.org/10.3844/jmrsp.2019.208.214). 6. A. Dwivedi, D. Kumar and N. Tiwari, “A Review on Electric Traction using WE System” <i>Journal of mechatronics and Robotics</i>, Vol 3, pp. 122-128, 2019. ISSN-2617-0353. (https://doi.org/10.3844/jmrsp.2019.122.128). 7. H. Pathak, A. Chandra, A. Dwivedi and N. Tiwari, “Modernization of Google Assistant Automation System” <i>International Transaction on Engineering & Science</i>, Vol. 1, no. 3, pp. 22-26, 2019. 8. A. Kumar, A. Gond, A. Dwivedi and N. Tiwari, “Wireless Power Transfer for Application of Electrical Vehicle” <i>International Transaction on Engineering & Science</i>, Vol 1, no. 3, pp. 11-15, 2019.

	<p>9. N. Tiwari, A. K. Maurya, P. Mani, A. K. Shrivastava, A. Yadav, S. Yadav, and P. K. Srivastava, "IoT-Based Controlling of Motor and Water Flow Rate Measurement for Home and Industrial Applications", <i>Communicated in Student Project Reporting</i>.</p>					
Summary of Publication (Published /Accepted)	SCI/SCIMago	Non-SCI	Book	Chapter	International Conference	National Conference
	21	8	6	4	15	1
Summary of Publication (Communicated)	SCI/SCIMago	Non-SCI	Book	Chapter	International Conference	National Conference
	6	1	2	2	1	0
Publications in International / National Conference	<p>1. N. Tiwari and A.N. Tiwari, "Introduction of the Internet of Things into the Smart Electric Vehicle: A Review" <i>National conf., recent advancement of electrical and electronics engineering</i>, pp. 1-5, 2018.</p> <p>2. N. Tiwari and A.N. Tiwari, "Performance Analysis of Unidirectional and Bidirectional Buck-Boost Converter using PID Controller" <i>2nd IEEE international conf. on electronics, material engineering & nano technology</i>, pp. 1-6, 2018. ISSN - 9781538655504. (10.1109/IEMENTECH.2018.8465229)</p> <p>3. N. Tiwari and A.N. Tiwari, "Design and Control of Buck Converter using PID and Fuzzy Logic Controller" <i>1st IEEE International Conf. on Power Energy, Environment and Intelligent Control (PEEIC)</i>, pp 560-567, 2018. ISSN - 9781538623411. (10.1109/PEEIC.2018.8665621)</p> <p>4. A Dwivedi, N Tiwari, A. Kumar and S. K. Agrawal, "Analysis of AC-to-AC Converter with Different Technology: A Survey", <i>2020 International Conference on Electrical and Electronics Engineering (ICE3-2020)</i>, pp. 332-336, 2020. ISSN - 9781728158464 (10.1109/ICE348803.2020.9122895)</p> <p>5. S. Kaul, S. Yadav, N. Tiwari, and A. Singh, "Deep Learning-based Advancement in Fuzzy Logic Controller", <i>International Conference on Artificial Intelligence and Smart Communication, (AISC)</i>, pp. 1239-1245, 2023. ISBN - 9798350322309. (10.1109/AISC56616.2023.10085358)</p> <p>6. A. Priyadarshini, S. Yadav, and N. Tiwari "A Review of Architecture, and Topologies Used for Electric Vehicle Charging Stations", <i>3rd Conference on Flexible Electronics for Electric Vehicles (FlexEV-2022)</i>, pp. 51-62. Springer, (2022). ISBN - 9789819947959. (https://doi.org/10.1007/978-981-99-4795-9_6)</p> <p>7. S. Patel, S. Yadav, and N. Tiwari "A Comprehensive Review of Wireless Electric Vehicle Charger", <i>3rd Conference on Flexible Electronics for Electric Vehicles (FlexEV-2022)</i>, pp. 589-598. Springer, (2022). ISBN - 9789819947959. (https://doi.org/10.1007/978-981-99-4795-9_55)</p> <p>8. A. Singh, S. Yadav, S. Chaturvedi, N. Tiwari, and A. Singh, "Sliding Mode Control-Based LQR Design for Two-Link Robot Manipulator", <i>Accepted International Conference on Computational and Experimental Methods</i>, pp. 1-10, 2023.</p> <p>9. U. Shukla, S. Yadav, N. Tiwari, and A. Priyadarshini "Compressive Review on AC-DC, DC-DC, DC-AC-DC Converters Used for Electric Vehicle and Charging Stations", <i>2nd International Conference on Sustainable Technology and Advanced Computing in Electrical Engineering (ICSTACE 2023)</i>, pp. 569-588, 2023. ISBN - 9789819967490. (https://doi.org/10.1007/978-981-99-6749-0_38)</p> <p>10. N. Tiwari, R. Chander, V. Dubey, S. Upadhyay, A. P. Singh, P. K. Srivastava, and S. Yadav, "Hardware Designing and Modeling of Joystick based Electric Wheelchair Drive", <i>International Conference on Frontiers in Desalination, Energy, Environment and Material Sciences for Sustainable Development</i>, pp. 241-247, 2023. ISBN - 9788196562182. (https://doi.org/10.21467/proceedings.161.27)</p>					

	<ol style="list-style-type: none"> 11. A. Soni, P. K. Srivastava, N. Tiwari, and A. N. Tiwari, "Modeling and Control of Small-Scale Distributed Generation System based on Wind PV and Battery", <i>International Conference on Frontiers in Desalination, Energy, Environment and Material Sciences for Sustainable Development</i>, pp. 187-196, 2023. ISBN: 978-81-965621-8-2. (https://doi.org/10.21467/proceedings.161.21) 12. A. Priyadarshini, S. Yadav, and N. Tiwari "A Comprehensive Review on Battery Thermal Management System for Electric Vehicles" <i>Accepted in International Conference on Future Power Network and Smart Energy Systems: Issues and Challenges</i>, pp. 1-10, 2025. ISBN: 978-981-96-5115-3 (https://doi.org/10.1007/978-981-96-5115-3_11) 13. S. Patel, S. Yadav, and N. Tiwari "Multifaceted Battery Charging Systems for Electric Vehicles", <i>Accepted International Conference on Energy Transition and Innovations in Green Technology</i>. 14. R. Gupta, A. Dwivedi, P. K. Juneja, V. Mishra, N. Tiwari, S. Kumar, "Frequency-Dependent Assessment of Power Transformer for Smart Grid Applications", <i>Accepted in 3rd International Conference on IoT, Communication & Automation Technology</i>, 2025. 15. R. Gupta, A. Dwivedi, P. K. Juneja, V. Mishra, N. Tiwari, S. Kumar, "IoT-Based Controlling of Motor and Water Flow Rate Measurement for Home and Industrial Applications", <i>Accepted in 3rd International Conference on IoT, Communication & Automation Technology</i>, 2025. 16. S. Patel, S. Yadav, and N. Tiwari "Modeling and Performance Evaluation of Advanced Control Techniques for Enhanced Voltage Regulation in Dual Active Bridge Converters for Electric Vehicles", <i>Communicated in Second International Conference on Sustainable Power and Energy Research</i>.
Book	<ol style="list-style-type: none"> 1. A. Singh, N. Tiwari, and S. Yadav, "Model Order Reduction of Power System Application" <i>Lambert Academic Publishing</i>, pp. 1-64, 2021 (ISBN 6203464465). 2. P. Shahi, N. Tiwari, and S. Yadav, "Design and Implementation of Image Analysis for Melanoma Skin Cancer" <i>Lambert Academic Publishing</i>, pp. 1-52, 2021 (ISBN 6203472123). 3. N. Tiwari, and S. Yadav, "Electric Vehicle (Green and Sustainable Transportation)", S. K. Kataria & Sons, pp. 1-286, 2023. (ISBN 9788196358907). (1st Edition) 4. N. Tiwari, and S. Yadav, "Electric and Hybrid Vehicles (Green and Sustainable Transportation)", S. K. Kataria & Sons, pp. 1-286, 2024. (ISBN 9788196358907). (2nd Edition). 5. N. Tiwari, S. Yadav, and V. K. Giri, "Fundamentals of Drone/UAV Technology (Design, Hardware, Innovation and Operational Insights)", S. K. Kataria & Sons, pp. 1-396, 2025. (ISBN 9788198247018). 6. N. Tiwari, S. Yadav, and S. R. Arya, "Electric Vehicle Technologies: Trends, Control, and Charging Solutions", <i>Bentham Science Publishers</i>, pp. 1-260, 2025. (9789815324877) 7. A. Dwivedi, N. Tiwari, S. Yadav, P. Tiwari, and A. K. Singh, "Artificial Intelligence for the Renewable Energy Revolution", <i>Conditional Accepted in Bentham Science Publishers</i>, 2026. 8. N. Tiwari, S. Yadav, and V. K. Giri, "Intelligent Electric Mobility in Aerial, Underwater and Ground Vehicles", <i>Communicated in Bentham Science Publishers</i>, 2026.
Book Chapters	<ol style="list-style-type: none"> 1. N. Verma, N. Tiwari and S. Kumar, "Analysis and Application of Power Amplifier to Biomedical Instrumentation", <i>Advanced Research in Electronic Devices for Biomedical and mHealth (apple academic press)</i>, pp. 263-292. 2024. ISBN: 9781003424666 2. R. Kumar, N. Tiwari, and A. Singh, "Harmonics Reduction by Distributed Power Flow Control Using FACTS Devices in Power Supply" <i>Recent Advances in Energy Systems</i>,

	<p><i>Power and Related Smart Technologies (Springer Nature), 2024. ISSN- 9783031295850. (doi.org/10.1007/978-3-031-29586-7_9).</i></p> <p>3. N. Tiwari, A. K. Maurya, A. K. Mishra, S. Gupta, and A. Chaurasiya, “Hardware Design and Modelling of Solar based Wireless Electric Vehicle Charging Station”, <i>Electric Vehicle Technologies: Trends, Control, and Charging Solutions (Bentham Science Publishers)</i>, pp. 175-201, 2025. (9789815324877)</p> <p>4. S. Patel, N. Tiwari, C. M. Chaurasiya, G. Kumar, R. P. and S. Agrawal, “Hardware Design and of Solar Panel based Electric Bicycle”, <i>Electric Vehicle Technologies: Trends, Control, and Charging Solutions (Bentham Science Publishers)</i>, pp. 202-221, 2025. (9789815324877).</p> <p>5. N. Tiwari, S. Yadav, and S. R. Arya, “Integration of Distributed Energy Resources in Power Systems” <i>Communicated in Custom Power Devices for Efficient Distributed Energy System</i>.</p> <p>6. A. Singh, N. Tiwari, S. Kumar, and S. Yadav, “Artificial Neural Network Based Wind Speed Forecasting in Smart Grid”, <i>Communicated in Artificial Intelligence for the Renewable Energy Revolution (Bentham Science Publishers)</i>, 2026.</p>				
Presented papers at National/ International Conferences	<p>1. N. Tiwari and A.N. Tiwari, “Introduction of the Internet of Things into the Smart Electric Vehicle: A Review” <i>National conf., recent advancement of electrical and electronics engineering</i>, pp. 1-5, 2018.</p> <p>2. N. Tiwari and A.N. Tiwari, “Performance Analysis of Unidirectional and Bidirectional Buck-Boost Converter using PID Controller” <i>2nd IEEE international conf. on electronics, material engineering & nano technology</i>, pp. 1-6 2018. ISSN - 978-1-5386-5550-4 (4-5 May 2018)</p> <p>3. N. Tiwari and A.N. Tiwari, “Design and Control of Buck Converter using PID and Fuzzy Logic Controller” <i>1st IEEE International Conf. on Power Energy, Environment and Intelligent Control (PEEIC)</i>, pp 560-567, 2018. ISSN - 978-1-5386-2341-1</p> <p>4. A. Priyadarshini, S. Yadav, and N. Tiwari “A Review of Architecture, and Topologies Used for Electric Vehicle Charging Stations”, <i>3rd Conference on Flexible Electronics for Electric Vehicles (FlexEV-2022)</i>, pp. 51-62. Springer, (2022). ISBN - 9789819947959.</p> <p>5. S. Patel, S. Yadav, and N. Tiwari “A Comprehensive Review of Wireless Electric Vehicle Charger”, <i>3rd Conference on Flexible Electronics for Electric Vehicles (FlexEV-2022)</i>, pp. 589-598. Springer, (2022). ISBN - 9789819947959.</p> <p>6. R. Gupta, A. Dwivedi, P. K. Juneja, V. Mishra, N. Tiwari, S. Kumar, “Frequency-Dependent Assessment of Power Transformer for Smart Grid Applications”, <i>Accepted in 3rd International Conference on IoT, Communication & Automation Technology</i>, 2025.</p> <p>7. R. Gupta, A. Dwivedi, P. K. Juneja, V. Mishra, N. Tiwari, S. Kumar, “IoT-Based Controlling of Motor and Water Flow Rate Measurement for Home and Industrial Applications”, <i>Accepted in 3rd International Conference on IoT, Communication & Automation Technology</i>, 2025.</p>				
	S. No.	Workshop/ Course	Title	Time Period	Organized by
	1.	Course	Programming in C, C++	13-06-2013 to 10-07-2013	NIELIT Gorakhpur
	2.	Course	Embedded System & Design	24-06-2013 to 19-07-2013	NIELIT Gorakhpur
	3.	Course	MATLAB and Simulink	16-06-2014 to 11-07-2014	NIELIT Gorakhpur
	4.	Summer Training Program	Technical Trainee	10-06-2014 to 21-07-2014	Mechanical workshop NE Railway
	5.	FDP	Malaviya Research Conclave (MRC-2017)	08-07-2017 to 11-07-2017	MMMUT Gorakhpur

Training/ Workshop/ Short Term Courses / FDP Attended	6.	FDP	Power system operation and control	06-05-2019 to 10-05-2019	REC Sonbhadra
	7.	Course	Smart Energy System: Operation and Control	17-12-2019 to 22-12-2019	(MMMUT Gorakhpur)
	8.	Workshop	Forensic and technology	13-02-2020 to 14-02-2020	MMMUT Gorakhpur
	9.	FDP	Recent Innovations in Renewable Energy Technologies and Smart Grids	08-06-2020 to 12-06-2020	BIET Lucknow
	10	FDP	Control of Power Electronic Converters for on Grid and off Grid Applications	03-08-2020 to 07-08-2020	SVNIT, Surat
	11	STTP	Application of Artificial Intelligence in Electrical Energy Systems	17-08-2020 to 21-08-2020	NIT Srinagar
	12	Workshop	Power Electronics for Electric Vehicles and Energy Systems	28-09-2020 to 03-10-2020	MMMUT Gorakhpur
	13	FDP	Advancement in Electric Vehicle Technology: A Step Towards Development of Sustainable Transportation System	18-02-2021 to 22-02-2021	SVNIT, Surat
	14	FDP	Resiliency & Reliability of Power Electronics Converters	10-02-2021 to 10-03-2021	JMI Delhi
	15	FDP	Power Electronics Challenges and Solutions for the Integration of Electric Vehicle Charging network	24-03-2021 to 26-03-2021	IIT BHU
	16	Workshop	Electric Vehicle – Grid Integration: Opportunities, Challenges and Remedial Measures	22-07-2021 to 23-07-2021	IEEE PES India Chapters Council
	17	Workshop	Cyber Security and Information Assurance	27-01-2022 to 31-01-2022	REC Sonbhadra
	18	Short Term Training	Recent Advances in Control System	25-11-2022 to 29-11-2022	MMMUT Gorakhpur
	19	Short Term Training	Recent Advances in Electric Vehicle and Energy System	19-12-2022 to 23-12-2022	MMMUT Gorakhpur
	20	ATAL FDP	Energy Management Challenges for Alternative Eco-Friendly System	23-01-2023 to 10-02-2023	MMMUT Gorakhpur
	21	ATAL FDP	Advanced Functional Materials for Clean Energy	05-08-2024 to 10-08-2024	KIPM CET Gorakhpur
	22	ATAL FDP	Challenges of Autonomous, and Electric Vehicle	27-01-2025 to 01-02-2025	MMMUT Gorakhpur
	23	FDP	Innovation and Entrepreneurship	24-06-2025 to 28-06-2025	Innovation Hub and UPID Noida, AKTU
<ol style="list-style-type: none"> As a member of the Technical Organising Chair on “5th International Conference on Electrical and Electronics Engineering (ICE3-2025)” jointly organised by MMMUT Gorakhpur and ABV- Indian Institute of Information Technology and Management, Gwalior, 2024. (19/09/2025 - 20/09/2025). As a session chair on the International Conference on Emerging Trends in Engineering, Science and Management (ETESM-2025), organized by Echelon Institute of Technology, Faridabad, Haryana, India, held on June 14–15, 2025 					

Conference Organize	<p>3. As a session chair and Organising Member on “International Conference on Frontiers in Desalination, Energy, Environment and Material Sciences for Sustainable Development” organised by MMMUT Gorakhpur, 2023.</p> <p>4. As a member of the publication Committee on “The International Conference on Energy, Functional Materials and Photonics” jointly organised by MMMUT Gorakhpur and International Association of Advanced Materials (IAAM), 2024.</p> <p>5. As a member of the Technical Organising Chair on “International Conference on Energy Transition and Innovations in Green Technology” jointly organised by MMMUT Gorakhpur and Asian Institute of Technology, Bangkok, Thailand, 2024. (27/09/2024 - 28/09/2024)</p> <p>6. As a session chair on “International Conference on Signal Processing and Advance Research in Computing (SPARC-2024)” Amity University, Lucknow, 2024.</p>			
Details of B.Tech Supervision	S. No.	Title	Name of Student	Year
	1	A Novel Web-Interface for Real-time BMS Data Visualization in the Internet of Charging Stations	Aditya Kumar Mishra, Rishikesh Saini, Vipul Shukla, Mohit Singh	2026
	2	Design, Control, and Hydrodynamic Framework Analysis for Wireless Underwater Drone	Nirma Kumari, Anmol Singh, Shubham Giri, Sahil Gupta	2026
	3	Performance Improvement of Batteries and Supercapacitor-based Hybrid Energy Source of electric vehicle by using thermal management system	Ritiwik, Aman Verma, Faraz Ahmad, Akhil Singh	2025
	4	Real-Time Estimation and Display of SOC, Charging Time, and Waiting Time of Incoming Electric Vehicle (EV) for an Internet of Charging Stations (IOCS)	Chandan Gupta, Vaibhav Maurya, Devendra Vishwakarma, Varsha Tiwari	2025
	5	Novel Hardware Design and Control of Multifunctional Wireless Amphibious Robot	Vinit Sharma, Ankit Pandey, Anshu Sharma, Ajay Prajapati, Shivansh Kumar Upadhyay	2024
	6	Solar Power-Based Wireless Electric Vehicle Charging Station	Ankesh Kumar Mishra, Sahabuddin Ali, Animesh Pandey, Shubham Gupta, Aditya Chaurasiya	2024
	7	Physical Modelling and Control of BLDC Motor-based Electric Stick Scooter	Sandeep Shukla, Manohar Nath, Sandeep Yadav	2024
	8	Hybrid AC-DC Microgrid Interconnection on MATLAB	Ram Chander, Vaibhav Dubey, Sarvesh Upadhyay, Aryan Pratap Singh	2023
	9	Automatic load sharing transformer with parallel using Arduino	Shubham Pandey, Gyan Prakash Gautam, Jamil Ahmed, Jamshed Ahmed	2023
	10	Power Generation by Speed Breaker	Ritesh Kumar, Rishi Muni Singh, Wasim Raza Ansari, Satypal Yadav	2023
	11	Simulation of high high-frequency AC to AC converter (cycloconverter) using MATLAB Simulink	Nikhil Mishra, Amandeep Sharma, Mahaveer Pandey, Alok Yadav	2023
	12	Inverter With Battery Charging System	Brijesh Chaurasiya, Abhishek Kumar Singh	2022
	13	Smart Solar Street Light	Ashutosh Singh, Prakhar Srivastav, Madheshwar Vishkarma, Krishna Kant Kannaujiya	2022

	14	Design and Control of BLDC Motor Drive Electric Bicycle	Anup Pratap Mall, Dheeraj Kumar, Manoj Kumar Yadav, Suraj Maurya, Abhishek Mishra, Mo. Asif Raza, Vijay Singh, Farendra Singh	2022
	15	Designing, monitoring & controlling of electric wheelchair through gesture	Victor Vishwakarma, Akash Shahi, Ankita Paswan, Anjali Kumari, Nikita Agrahari, Ankit Rai, Saad Ahmad, Md. Rashid Ansari	2022
	16	Battery Thermal Management System of Electric Vehicle	Om Namo Narayan Tripathi, Shipra Shukla	2022
	17	Mask Ventilation with Social Distance	Manish Kumar Singh, Saurabh Singh, Amit Kumar, Govind Sharma, Jagmohan Nishad	2021
	18	Bluetooth Control Device Using Arduino	Deepak Saroj, Sunil Paswan, Sachine Kumar Dubey, Naveen Kumar Bharti, Shailesh Kumar Paswan	2021
	19	Smart Water Pump System	Jyoti Chaurasia, Vasudha Pandey, Shaniya Ashraf, Sadhana Bharati, Apoorva Shukla	2021

Date: 08-12-25
Place: Gorakhpur

Dr. Nitesh Tiwari