

Faculty Profile



Dr. G. Jegadeeswari, M.Tech., Ph.D

Assistant Professor (O.G)- EEE

HIGHLIGHTS:

- Number of Journal Publications: 53
- H-Index: 8
- Project Funding Received: 01
- Patents Published: 03
- Patents Granted: Nil

PROFESSIONAL LINKS:

- Scopus ID: 57200597022
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57200597022>
- Google Scholar ID: <https://scholar.google.com/citations?user=ezipKsAAAAJ>
- Anna University Faculty ID: 310346
- AICTE Faculty ID: 1-3696842764
- Anna University Supervisor ID: Nil
- LinkedIn: www.linkedin.com/in/dr-g-jegadeeswari-948178210

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 12 Years
- Research Experience: 6 Years

INTERNATIONAL EXPOSURE:

- Research Fellow at INTI International University, Malaysia

AREA OF SPECIALIZATION:

- Power Electronics and Drives
- Control Systems
- Electrical Machines
- Special Electrical Machines
- Renewable Energy System
- Soft Computing

- Optimization
- Circuit Theory
- Digital Logic Circuit
- Integrated Circuits
- Electronic Devices and Circuit

Ph.Ds AWARDED WITH DETAILS:

S:No	Name of Scholar	Title of Thesis	Year of Completion	Full Time/Part Time
	Nil			

Ph.Ds GUIDING:

- Full Time Scholars: Nil
- Part Time Scholars: Nil

			JOURNAL PUBLICATIONS	
S. No	Title of Publication	Year	Type of Publication & Indexing	Publisher
1.	G. Jegadeeswari, R. Sundar, Sripriya Ranganathan, Savitha Venkatesan, J. Praveen Kumar, V. Geetha Priya, Rishi Soni, M Batumalay, "IoT-Enabled Smart Grid Monitoring with Octopus-Optimized PI Controller and Sailfish-RNN Secure Data Transmission"	2026	Journal (SCOPUS) Q3	International Journal of Power Electronics and Drive Systems
2.	G. Jegadeeswari, S.V. Saravanan, S. Shanmugapriya, Vijay Kumar Gowda B N, Revathy J, Srikanth Ravipati, Simhadri Lakshmi Sirisha, M Batumalay, " <i>Optimization of TiO₂ Nanotube/TiO₂-SnO₂ Composite Photoanodes with TiCl₄ Post-Treatment for Dye-Sensitized Solar Cells</i> "	2026	Journal (SCOPUS) Q2	International Journal of Power Applied Power Engineering
3.	Ajaykumar Devarapalli, Muthukumar G G, R. Sivakumar, A. Elagovan, Rajesh Thangella, G. Jegadeeswari, C. Jayabalan, " <i>Performance Enhancement of PV Fed Switched Reluctance Motor Based Marine Propulsion System using Octopus Optimization Algorithm</i> "	2026	Conference Proceedings (SCOPUS)	IEEE
4.	Aasha Nandhini S, R. Karthick Manoj, G. Jegadeeswari, " <i>Multi-Scale Generative Skin Image Analysis with Dermoscopy-Guided Self-Disentangling Networks for Early Melanoma Detection</i> "	2026	Conference Proceedings (SCOPUS)	IEEE
5.	M Vaigundamoorthi, G Jegadeeswari, S Asha, Savitha Venkatesan, R Sundar, S.P Manikandan, P Veera Manikandan, M Batumalay, " <i>Integrated PV-Driven DC-DC Converter with Hybrid Energy Storage System for Electric Vehicle Applications</i> "	2026	Journal (SCOPUS) Q3	International Journal of Power Electronics and Drive Systems
6.	Jegadeeswari G, Muthukumar G G, Rajadurai R, Savitha Venkatesan, Sriananda Ganesh T, Sujatha M, Sathish Kumar. J, Srikanth Ravipati, " <i>Design and Modeling of a PV-Fed High-Gain DC-DC Converter for EV Charging</i> " DOI: https://doi.org/10.24840/2183-6493_0012-002_003757	2026	Journal (SCOPUS) Q4	U Porto Journal of Engineering

7.	G. Jegadeeswari, Britto Jenobia J, R Sivakumar, P. Anbarasan, P. Veera Manikandan, Sujatha.M, Malathy Batumalay, “ <i>Design, Modeling, and Analysis of High Gain Super-Lift Luo Converter Fed SRM for Submerged Propulsion</i> ”. DOI: https://doi.org/10.24840/2183-6493_0012-002_003574	2026	Journal (SCOPUS) Q4	U Porto Journal of Engineering
8.	G. Jegadeeswari, M Vaigundamoorthi, R Sundar, J.S.S.L Bharani, Rajarajachozhan C, Malathy Batumalay, S.P Manikandan, “ <i>Design and Analysis of a C⁴S DC–DC Converter for Sustainable Solar Energy Systems</i> ”. DOI: http://doi.org/10.11591/ijpedsv17.i2.pp1152-1164	2026	Journal (SCOPUS) Q3	International Journal of Power Electronics and Drive Systems
9.	S. L. Moe, M. Batumalay, G. Jegadeeswari and K. M. Ravichandran, "A Taxonomy of Adaptive Interfaces for Human-CPS Interaction," pp. 1-7, DOI: https://doi.org/10.1109/ICCRAIDS67816.2026.11519642	2026	Conference Proceedings (SCOPUS)	IEEE
10.	G. Jegadeeswari, S.P Manikandan, Sripriya Rangathanan, B. Kirubadurai, S. Kalpana, M. Tamilarasi, M. Batumalay, “ <i>Fatigue, Resonance and Cavitation Mitigation Strategies for Carbon Fibber Wrapped Polytetrafluoroethylene (PTFE) Coated Aluminium Hydrogen Storage Cylinders</i> ”. DOI: https://doi.org/10.24840/2183-6493_0012-001_002844	2026	Journal (SCOPUS) Q4	U Porto Journal of Engineering
11.	G. Jegadeeswari, R. Sundar, Sripriya R, M. Vaigundamoorthi, B. Kirubadurai, “ <i>Multiphysics Simulation and Performance Evaluation of Advanced Rotor Materials for Efficiency Enhancement in Induction Motors</i> ” DOI: https://doi.org/10.1556/1848.2026.01150	2026	Journal (SCOPUS) Q2	International Review of Applied Sciences and Engineering
12.	G Jegadeeswari, R Sundar, S.P Manikandan, E Poovannan, Rajarajachozhan C, Malathy Batumalay, S Kalpana, “ <i>THD and Spectral Performance Analysis of Multi-Carrier RPWM for Inverter Applications</i> ” DOI: http://doi.org/10.11591/ijpedsv17.i1.pp370-382	2026	Journal (SCOPUS) Q3	International Journal of Power Electronics and Drive Systems
13.	Jegadeeswari G, S P. Manikandan, S. Kalpana, J.S.S.L. Bharani, A. Bharathi, B. Kirubadurai, S. Gayathri, “ <i>Fabrication and performance evaluation of TiO₂ nanotube–based films for dye-sensitized solar cells</i> ” DOI: https://doi.org/10.1556/1848.2026.01131	2026	Journal (SCOPUS) Q2	International Review of Applied Sciences and Engineering
14.	G. Jegadeeswari, G Rohini, D Balakumar, D Lakshmi, S Marisargunam, Malathy Batumalay, B. Kirubadurai, “ <i>Adaptive ANFIS-Based MPPT for PV-Powered Green Ships with High Gain SEPIC Converter</i> ” 16(4), pp. 2768~2779. DOI: http://doi.org/10.11591/ijpedsv16.i4.pp2768-2779	2025	Journal (SCOPUS) Q3	International Journal of Power Electronics and Drive Systems
15.	Jegadeeswari. G, “ <i>Design, modelling, and analysis of multi-carrier random pulse width modulation in three-phase power inverters</i> ” DOI: https://doi.org/10.1556/1848.2025.01077	2025	Journal (SCOPUS) Q2	International Review of Applied Sciences and Engineering
16.	Vinothkumar, M., Kirubadurai, B., Jaganraj, R., Jegadeeswari, G., Prabhu M, S., & Dinakaran, J. "Evaluation of thermal stability and decomposition behaviour of sustainable natural fibre composites for unmanned aerial vehicle". DOI: https://doi.org/10.1556/1848.2025.00939	2025	Journal (SCOPUS) Q2	International Review of Applied Sciences and Engineering
17.	Kirubadurai, B., Jaganraj, R., VinothKumar, G. Jegadeeswari. "Failure Analysis of PTFE Coted Type III Hydrogen Storage Cylinders with Varying Filling Pressures". DOI: https://doi.org/10.1007/s40995-025-01882-2	2025	Journal (SCOPUS, SCI) Q1	Iranian Journal of Science
18.	Jegadeeswari. G, Lakshmi.D, Kirubadurai, B, "Performance enrichment of switched reluctance motors through bio-	2025	Journal (SCOPUS) Q2	International Review of Applied

	inspired algorithm for electric propulsion system", Pg. (1-16). DOI: https://doi.org/10.1556/1848.2025.01071			Sciences and Engineering
19.	Kirubadurai. B, Jaganraj R, Jegadeeswari. G, VinothKumar M, "Investigating the Surface Defects and Structural Integrity of 3D Printed Hydrogen Storage Cylinders in UAV Applications", 13(3), Pg. (161-191).	2025	Journal (WoS)	Journal of Polymer & Composites
20.	Vinothkumar M, Satheesh C , Kirubadurai. B, Jaganraj R, Jegadeeswari. G, Ashok N , "Assessment of Sustainable Composite for UAV structural Application", 13(3), Pg. (359-377).	2025	Journal (WoS)	Journal of Polymer & Composites
21.	M. Vinothkumar, B. Kirubadurai, R. Jaganraj, G. Jegadeeswari, R. Pugazhenth, and G. Manikandan, "Sustainable composite materials for UAVs: An analysis of Morinda citrifolia and Tamarindus indica bio-fibres", pg. (1-12). DOI: https://doi.org/10.1556/1848.2025.00941	2025	Journal (SCOPUS) Q2	International Review of Applied Sciences and Engineering
22.	B Kirubadurai, R Jaganraj, M Vinothkumar, G Jegadeeswari, "A Dual Modelling Approach: CFD and Electrochemical Impedance Spectroscopy for Enhanced PEM Fuel Cell Design and Operation", Vol:16. DOI: https://doi.org/10.1016/j.rineng.2025.104858	2025	Journal SCI/SCOPUS Q1	Results in Engineering
23.	B. Kirubadurai, R. Jaganraj, M. Vinothkumar, G. Jegadeeswari, "CFD analysis of fuel cell performance: Insights into electrochemical and thermal processes", Pg. (1-12)	2025	Journal (SCOPUS) Q2	International Review of Applied Sciences and Engineering
24.	Kirubadurai. B, Jegadeeswari. G "Improvement of Air Compressor Cooling with Intercooler Fine Pruning", 28(4); Pg. (486-498)	2024	Journal (SCOPUS) Q3	Journal of Engineering and Sustainable Development
25.	G. Jegadeeswari, D. Lakshmi, B. Kirubadurai, Zuraidah Harith, "Performance Evaluation of Four Phase 8/6 Switched Reluctance Motor for Ship Propulsion System" 19(1); Pg. (109-120)	2024	Journal(SCOPUS;WoS) Q3	Journal of Engineering Science and Technology
26.	G. Jegadeeswari, D. Lakshmi, B. Kirubadurai, "Optimal Design of modern Transformer-less Photo Voltaic Inverter for Renewable Energy System", 14(81)	2023	Journal (WoS)	Indian Journal of Natural Sciences
27.	G. Jegadeeswari, D. Lakshmi, "Renewable Energy based Switched Reluctance Motor for Marine Propulsion System", 14(81)	2023	Journal (WoS)	Indian Journal of Natural Sciences
28.	G. Jegadeeswari, D. Lakshmi, B. Kirubadurai, "Grey Wolf Optimization Algorithm for Tuning PI Controller Based Speed Control of Switched Reluctance Motor for Ship Propulsion Systems"	2023	Journal (SCOPUS) Q3	Advances in Science and Technology
29.	Jegadeeswari. G, Lakshmi.D, Kirubadurai. B, "ANN and Fuzzy Logic Based Direct Instantaneous Torque Control for 8/6 Switched Reluctance Motor", pg: 295-305	2023	Conference Proceedings (SCOPUS) Q4	Springer: Lecture notes in Mechanical Engineering
30.	Jegadeeswari. G Ezhilarasi. G, Pramila. V Vijayanand. J Kirubadurai. B, "Performance Comparison of Dynamic Responses & Speed Control of Switched Reluctance Motor Using PI & Fuzzy logic Controller", pg. 674–680	2023	Conference Proceedings (SCOPUS)	IEEE
31.	Kirubadurai. B, Kanagaraja. K, Jegadeeswari. G, Kannan. G, "Design and Analysis of Grooved Heat Pipe", 13	2022	Journal (SCOPUS) Q2	International Review of Applied Sciences and Engineering
32.	B. Kirubadurai, G. Jegadeeswari, S. Kanagaraja, "Parametric Study of Free Piston Engine Combustion Under Different Compression Ratios"	2022	Journal (SCOPUS) Q2	International Journal of Ambient Energy

33.	B. Kirubadurai, K. Kanagaraja, G. Jegadeeswari, R. Sundharesan, “ <i>Experimental investigation of material properties of Al-Sic-fly ash composite</i> ”,14	2022	Journal (SCOPUS) Q2	International Review of Applied Sciences and Engineering
34.	B. Kirubadurai, G. Jegadeeswari, S. Kanagaraja, “ <i>Free-Piston Engine Design and Evaluation with Different Compression Ratios</i> ”, 13(3)	2021	Journal (SCOPUS) Q3	INCAS BULLETIN
35.	G. Jegadeeswari, B. Kirubadurai, “ <i>Automatic Operation of Accommodation Ladder on Tidal Ports</i> on 2021 IEEE Conference on Norbert Wiener in the 21st Century (21CW), pp. 1-3	2021	Conference Proceedings (SCOPUS)	IEEE
36.	G. Jegadeeswari, B. Kirubadurai, “ <i>A Fuzzy Logic Controller Based SRM with Torque Ripple Suppression for EV Applications</i> ”, 12(3)	2021	Journal (WoS)	International Journal of Aquatic Science
37.	D. Lakshmi, G. Ezhilarasi, K. Rekha, G. Jegadeeswari, “ <i>Automatic Detection and Power Shutdown for Gas Leakage and Its Monitoring System</i> ”, 12(3)	2021	Journal (WoS)	International Journal of Aquatic Science
38.	G. Jegadeeswari, S. Baskaran, D. Lakshmi, B. Kirubadurai,” <i>Performance Investigation of Cascaded Multilevel Inverter Fed Brushless Dc Motor Drive</i> ”, 12(3)	2021	Journal (WoS)	International Journal of Aquatic Science
39.	S. Amirtharaj, D. Lakshmi, G. Jegadeeswari, G. Ezhilarasi, “ <i>Performance of a Photovoltaic Luo-Converter with Multiple-Lift Push-Pull Switched Capacitors</i> ”, 12(3)	2021	Journal (WoS)	International Journal of Aquatic Science
40.	Kirubadurai. B, Jegadeeswari. G, Kanagaraja. K, Gowtham G, “ <i>Improvement of Air Compressor Cooling with Intercooler Fine Pruning</i> ”, 12(3)	2021	Journal (WoS)	International Journal of Aquatic Science
41.	B. Kirubadurai, S. Kanagaraja, G. Jegadeeswari, “ <i>Analysis of Knocking Characteristic in Dual Fuel Engine - the Effects on Diethyl Ether</i> ”, 13(2)	2021	Journal (SCOPUS) Q3	INCAS BULLETIN
42.	B. Kirubadurai, S. Kanagaraja, G. Jegadeeswari, “ <i>Impact of BUE on surface ruggedness for machining of aluminum matrix composites (6061/fly ash)</i> ”, 6(3)	2020	Journal(SCOPUS;WoS) Q3	Advances in Materials and Processing Technologies
43.	S. Kanagaraja, B. Kirubadurai, G. Jegadeeswari, “ <i>Machining of Aluminum Fly Ash Composite Effect of BUE on Surface Roughness</i> ”, 14(5), pg. no:6044- 6050	2020	Journal (SCOPUS)	Journal of Xidian University
44.	D. Lakshmi, S. Prathiba, G. Jegadeeswari, M. Balamurugan, “ <i>Improvement of Power Quality in Low Voltage Distribution Grids</i> ”, 82, pg.1701-1705	2020	Journal (SCOPUS) Q4	Test Engineering and Management
45.	Veerakumar. P, G. Jegadeeswari, C. Nayanatara, “ <i>IoT Based Integrated Home Security and Electrical Appliances Control System</i> ”, 82, pg. 1697	2020	Journal (SCOPUS) Q4	Test Engineering and Management
46.	G. Jegadeeswari, B. Kirubadurai, D. Lakshmi, “ <i>Multi Carrier Based New Random Pulse Width Modulation for Three Phase Inverters</i> ”, 9(2), Pg. 5425-5432	2020	Journal (SCOPUS) Q3	International Journal of Scientific and Technology Research
47.	Jegadeeswari. G, Kirubadurai. B, “ <i>Design of Annular Combustion Chamber with Different Types of Swirl to Perform Pressure Drop Study</i> ”,9(2), Pg. 1972- 1975	2020	Journal (SCOPUS) Q3	International Journal of Scientific and Technology Research
48.	G. Jegadeeswari, K. Kanagaraja, B. Kirubadurai, “ <i>Optimization of Gas Turbine Blade Cooling System</i> ”, 8(11), Pg. 4176- 4148	2019	Journal (SCOPUS) Q4	International Journal of Innovative Technology and Exploring Engineering

49.	G. Jegadeeswari, “ <i>Performance Analysis of Power Quality Improvement using Shunt Active Power Filter</i> ”, 7(5), Pg. 1-3	2019	Journal (SCOPUS) Q4	International Journal of Recent Technology and Engineering
50.	G. Jegadeeswari, P. Veerakumar, A.K. Anand Kumar, “ <i>Solar Power Synchronization with Main Bus bar in VLCC using FPGA Technique</i> ”, 8(2), Pg. (117-120)	2019	Journal (UGC)	Universal Review
51.	G. Jegadeeswari, R. Elavarasi, “ <i>Implementation of Buck-Boost Chopper Type AC Voltage Regulator</i> ”, 8(1), Pg. (50-58)	2019	Journal (UGC)	Universal Review
52.	G. Jegadeeswari, R. Elavarasi, “ <i>Hygiene, water and sanitary issues among the women</i> ”, 5(12), Pg. (243-245)	2018	Journal (UGC)	Journal of Applied Science and Computations
53.	G. Jegadeeswari, M. Dheepak, S.V. Saravanan, V. Vanisree, “ <i>The Power Factor Correction Improvement for A Single-Phase Ac/Dc Converter Using an Enabling Window Control</i> ”, 8(5), Pg. (41-48)	2018	Journal (SCOPUS) Q3	International Journal of Mechanical and Production Engineering Research and Development
54.	M. Dheepak, G. Jegadeeswari, Dr. S.V. Saravanan, R. Sundar, “ <i>Humanoid Robot for Remote Surveillance</i> ”, 9(8), Pg. (653-659)	2018	Journal (SCOPUS) Q3	International Journal of Mechanical Engineering and Technology
55.	S. Janarthanan, G. Jegadeeswari, “ <i>Wireless Motor Control and Monitoring System Using Zigbee</i> ”, 7(7), Pg. (241-246)	2018	Journal (UGC)	International Journal of Research
56.	G. Jegadeeswari, V. Vanisree, “ <i>Performance Investigation of Self-Lift and Re-Lift Luo Converter Topologies</i> ” 5(7), Pg. (63-67)	2018	Journal (UGC)	Journal of Applied Science and Computations
57.	G. Jegadeeswari, V. Vanisree, S. Janarthanan,” <i>Performance Analysis of DC – DC converters with voltage-lift Circuits</i> , 8(7), Pg. (139-152)	2018	Journal (UGC)	International Journal of Management, Technology and Engineering
58.	G. Jegadeeswari, S. Janarthanan, “ <i>Crane Control by Hand Gesture Using Flex Sensor</i> ”, 5(7), Pg. (39-46)	2018	Journal (UGC)	Journal of Applied Science and Computations
59.	S.V. Saravanan, G. Jegadeeswari, T. Dhanya, “ <i>Three Port Converter in Renewable System</i> ”, 8(7), Pg. (199-207)	2018	Journal (UGC)	International Journal of Management, Technology and Engineering
60.	G. Jegadeeswari, T. Dhanya, “ <i>Identification of Vibration on Electrical and Mechanical Components in Marine Machinery</i> ”, 7(7), Pg. (194-199)	2018	Journal (UGC)	International Journal of Research
61.	G. Jegadeeswari, T. Dhanya, P. Veerakumar, “ <i>To Monitor the On-line System for Dissolved Gases in Transformer Oil using Wireless Data Acquisition</i> ”, 5(7), Pg. (34-38)	2018	Journal (UGC)	Journal of Applied Science and Computations
62.	G. Jegadeeswari, “ <i>Design of SVPWM Inverter for Induction Motor Drive Using Neural Network Predictive Control</i> ”, 6(4), Pg. (1007-1015)	2018	Journal (UGC)	International Journal for Research in Applied Science & Engineering Technology
63.	G. Jegadeeswari, S.V. Saravanan, “ <i>Comparison of THD Reduction for Asymmetrical Cascaded H-Bridge Inverter</i> ”,	2018	Journal (UGC)	International Journal of Creative

	6(2), Pg. (51-58)			Research Thoughts
64.	G. Jegadeeswari, “ <i>Design and Implementation of THD Reduction for Cascaded Multilevel H-Bridge Inverter</i> ”, 11, Pg. (638-644)	2017	Journal (SCOPUS) Q3	Journal of Advanced Research in Dynamical and Control Systems
65.	G. Jegadeeswari, S. Kanimozhi, R. Arun Kumar, F. Avila Priya, “ <i>Design of SVPWM Inverter for Induction Motor Drive Using Neural Network Predictive Controller</i> ”	2014	Conference Proceedings (SCOPUS)	IEEE
66.	G. Jegadeeswari, R. Arun Kumar, S. Kalaivani, S. Parthiban, “ <i>Design of SVPWM Inverter for Induction Motor Drive Using PID Controller</i> ”, 3(5), Pg. (1515 – 1519)	2014	Journal (UGC)	International Journal of Science, Engineering and Technology Research
67.	G. Jegadeeswari, R. Arun Kumar, F. Avila Priya,” <i>Design of Three Phase Inverter Fed Induction Motor Drive Using Neural Network Predictive Controller</i> ”, 3(4), Pg. (765-769)	2014	Journal (UGC)	International Journal of Research in Engineering and Technology
68.	S. Kalaivani, K. Kavinlavu, G. Jegadeeswari, S. Kanimozhi, “ <i>Comparison of Total Harmonic Distortion for Asymmetrical Cascaded H-Bridge Inverter</i> ”, 3(5), Pg. (242-247)	2014	Journal (UGC)	International Journal of Research in Engineering and Technology

CONFERENCE PROCEEDINGS			
S.NO	Title of Conference	Date	Organizer
1.	Performance Enhancement of PV Fed Switched Reluctance Motor Based Marine Propulsion System using Octopus Optimization Algorithm, on <i>12th International IEEE Conference on Electrical Energy Systems (ICEES - 2026)</i>	23-25, Sept 2026	SSN College of Engineering, Chennai
2.	A Taxonomy of Adaptive Interfaces for Human-CPS Interaction at <i>International Conference on Current Research in Artificial Intelligence and Data Science (ICCRAIDS) 2026</i>	10-11, April 2026	Amikom Purwokerto University, Indonesia
3.	Multi-Scale Generative Skin Image Analysis with Dermoscopy-Guided Self-Disentangling Networks for Early Melanoma Detection at <i>International Conference on Emerging Technologies in Engineering Applications (ICETEA)</i>	14-15, May 2026	Sri Manakula Vinayagar Engineering College, Pondicherry
4.	Optimization-Based Renewable Energy-Driven SRM for Sustainable Marine Propulsion Systems at <i>International Conference on Sustainable Aerospace Technologies and Innovation (ICSATI2025)</i>	07-08, Feb 2025	VIT, Bhopal
5.	Advanced Metaheuristic Techniques for Switched Reluctance Motor-Driven Underwater Propulsion Systems at <i>International Conference on Sustainable Aerospace Technologies and Innovation (ICSATI2025)</i>	07-08, Feb 2025	VIT, Bhopal
6.	Metaheuristic Algorithm Based Switched Reluctance Motor Driven Marine Propulsion System at <i>7th International Conference on Innovation and Technopreneurship (ICIT2024)</i>	26-27, Sept 2024	INTI University, Malaysia
7.	Renewable Energy Based 8/6 SRM Driven Marine Propulsion System Using Intelligent Controllers at <i>7th International Conference on Innovation and Technopreneurship (ICIT2024)</i>	26-27, Sept 2024	INTI University, Malaysia
8.	A Novel High Gain Modified SEPIC DC to DC Boost Converter for Ship Propulsion System at <i>7th International</i>	26-27, Sept 2024	INTI University, Malaysia

	<i>Conference on Innovation and Technopreneurship (ICIT2024)</i>		
9.	Performance Enhancement of Switched Reluctance Motor for Marine Propulsion Systems at <i>International Conference on Modern Trends in Engineering and Management (ICMTEM)</i>	2, April 2025	Stella Mary's College of Engineering
10.	Performance Enhancement of 8/6 Switched Reluctance Motor Powered by Renewable Energy for Marine Propulsion Systems at <i>International Conference on Fostering Sustainable Development through Innovation and Smart Technologies (FSDIST)</i> ; ISBN: 978-93-85434-94-5	30, Nov 2023	AMET University, Chennai
11.	Optimal Design of Modern Transformer-Less Photo Voltaic Inverter for Renewable Energy System at <i>International Conference on Academic & Industrial Innovations in Engineering (ICAIE)</i>	12-13 Aug 2023	PP Savani University, Gujarat
12.	Performance Comparison of an SRM with conventional PI, Fuzzy, ANN and CANN Controllers at <i>International Conference on Recent Trends and Innovations in Sustainable Electrical Energy Systems 2023</i>	30-31 Mar 2023	National Institute of Technology, Puducherry
13.	Performance Comparison of Dynamic Responses & Speed Control of Switched Reluctance Motor Using Pi & Fuzzy Logic Controller, on <i>9th International IEEE Conference on Electrical Energy Systems (ICEES - 2023)</i>	23-25, Mar 2023	SSN College of Engineering, Chennai
14.	Performance Comparison of an SRM with conventional PI, Fuzzy, ANN and CANN Controllers in the <i>37th Indian Engineering Congress</i>	16-18, Dec 2022	IEI, Hotel Le Royal Meridian, Chennai
15.	Grey Wolf Optimization Algorithm for Tuning Pi Controller Based Speed Control of Switched Reluctance Motor for Ship Propulsion Systems on <i>Third International Conference on Future Technologies (ICOFT 2021)</i>	14-18, Dec 2022	National Institute of Technology, Karaikal
16.	Optimized Technique for Speed Control of Switched Reluctance Motor Based Marine Drives, on <i>Second National Conference on Fuel Cell and Electric Vehicle Technology (FCEVT - 2022)</i>	25-26, Nov 2022	SSN College of Engineering, Chennai
17.	CANN Based Performance Investigation of Four Phase 8/6 Switched Reluctance Motor” on <i>International Conference on Innovation and Technopreneurship (ICIT2022)</i>	22-23 Sept. 2022	INTI University, Malaysia
18.	Performance Evaluation of Four Phase 8/6 Switched Reluctance Motor for Ship Propulsion System” on <i>3 International E-Conference on Challenges and Opportunities in Renewable Energy, Smart Systems and E-Mobility (ICCORSE- 2022)</i>	7-8 Oct 2022	SRM Engineering College, Easwari Chennai
19.	Soft Computing Based Torque Ripple Reduction for Switched Reluctance Motor on <i>International Conference on Role of Technology towards Sustainable Development, Innovation and Information Exchange in Business and Management</i> ; ISBN: 978-93-95196-14-7	29-30 July 2022	SIMATS School of Management, Chennai
20.	Optimal Design of Modern Transformer-Less PV Inverter for Renewable Energy System on <i>AICTE Sponsored International Conference on Electrical Engineering (ICEEMR 2022)</i>	23-24 June 2022	Chennai Institute of Technology, Chennai
21.	Soft Computing Technique Based Torque Ripple Suppression in SRM for Electric Vehicle Application on <i>1st International Conference on “Emerging Trends in Electric Vehicles and Smart Technologies (ICETEVST-22)</i> ; ISBN: 978-93-94899-37-7	21-22 April 2022	SRM TRP Engineering College, Trichy
22.	ANN and Fuzzy Logic Controller based Instantaneous Direct Torque Control for 8/6 Switched Reluctance Motor” on	16-18, Dec 2021	National Institute of Technology, Puducherry

	<i>Second International Conference on Future Technologies (ICOFT 2021)</i>		
23.	Soft Computing Technique Based Fault Detection and Diagnosis in Three Phase Induction Motor” on <i>AICTE sponsored International Conference on Future Challenges in Data Science and Engineering for Global Sustainability (FCDSEGS-2021)</i> ; ISBN: 978-93-91355-10-4	07-08, Oct 2021	Amritsar College of Engineering and Technology
24.	Implementation of Fault Detection and Diagnosis in Three Phase Induction Motor Using Soft Computing Techniques” on <i>International E-Conference on Challenges and Opportunities in Renewable Energy, Smart Systems and E-Mobility (ICCORSE- 2021)</i> ; ISBN: 978-93-5566-573-7	07-08, Oct 2021	SRM Easwari Engineering College, Chennai
25.	Automatic Operation of Accommodation Ladder on Tidal Ports on <i>2021 IEEE Conference on Norbert Wiener in the 21st Century (21CW)</i> ; ISBN: 978-1-7281-5384-1	22-25, July 2021	CEG, Anna University
26.	Mitigation of Power Quality Issues Using Dstatcom on <i>International Conference on Energy and Materials Technologies (ICEMT-2021)</i>	20-21, Aug 2021	SSN
27.	Implementation of Power Factor Correction Boost Converter fed SRM for EV Applications on <i>International Conference on Sustainable Innovation in Science & Technology (ICSIST’21)</i>	26-27, Feb 2021	G H Raisonni University, Saikheda, MP
28.	Performance Analysis of BLDC Motor with Multilevel Inverter on <i>International E -Conference on Recent Trends and Technologies in Soft Computing (ICRTSC’20)</i> ; ISBN: 978-93-5416-195-7	28-29, Sept 2020	St. Peter’s Institute of Higher Education and Research, Chennai
29.	Fault Detection and Diagnosis in Three Phase Induction Motor Using Neural Network Predictive Controller” on <i>Virtual National Conference on Emerging Technologies in Energy Systems (NCETES-2020)</i>	11, Sept 2020	Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada
30.	Implementation of fault detection and diagnosis of three phase induction motor” on <i>AICTE Sponsored International E-Conference on Electrical, Communication and Computing (ICECC-2020)</i> ; ISBN: 978-81-947587-4-7	20-21, Aug 2020	Tagore Engineering College, Chennai
31.	Design of MOSFET Inverter of a Grid Connected Photovoltaic System on <i>AICTE Sponsored International E-Conference on Electrical, Communication and Computing (ICECC-2020)</i> ; ISBN: 978-81-947587-4-7	20-21, Aug 2020	Tagore Engineering College, Chennai
32.	Implementation of Thirty-One Level Cascaded Multilevel Inverter Fed Brushless Dc Motor Drive Applications on <i>International E-Conference on Challenges and Opportunities in Renewable Energy, Smart Systems and E-Mobility (ICCORSE- 2020)</i>	30-31, July 2020	SRM Easwari Engineering College, Chennai
33.	Machining Behavior of Al6061 fly- ash Composites on <i>International E-Conference on Advances in Information Technology, Business Management, and e-Commerce - 2020</i> ; ISBN: 978-93-5407-331-1	04-05, July 2020	The Quaide Milleth College for Men - Shift II, Medavakkam, Chennai
34.	Performance Analysis of an Enhanced Positive Output Super-Lift Luo Converter for Renewable Energy Applications at <i>4th International Web Conference on Emerging Trends in Arts, Science, Engineering & Technology, Organized by IWCETASET – 2020</i> ; ISBN Number: 978-81-945642-3-2	28, June 2020	DK International Research Foundation, Perambalur, Tamilnadu
35.	Analysis of Knocking Characteristics in Dual Fuel Engine-The Effects on Diethyl Ether on <i>3rd International Conference on Advance Scientific Innovation in Science, Engineering and Technology (ICASISET-2020)</i> ; ISBN: 978-93-5267-713-9	15-16, May 2020	Bharath Institute of Higher Education and Research (Deemed to be University)

36.	IoT Based Home Appliances Control on <i>National Conference on Recent Advances in Science, Engineering, and Management (NCRASEM 2020)</i> ; ISBN: 978-81-943033-7-4	5, Mar 2020	Tagore Engineering College, Chennai
37.	Improved Power factor and THD of CUK Converter using PMBLDC Motor for Electric Vehicles” on <i>1st International Conference on Computer Communications & Power Systems (ICCCPS-2020)</i>	29-30, Mar 2020	Sri Venkateswara College of Technology, Chennai
38.	Multi Carrier Based New Random Pulse Width Modulation for Three Phase Inverters on <i>International Conference on Power Engineering Computing and Control” (PECCON 2019)</i>	12-14, Dec 2019	Vellore Institute of Technology (Deemed to be University), Chennai
39.	Performance Analysis of an Enhanced Positive Output Super-Lift Luo Converter for Renewable Energy Applications on <i>National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives PCID 2019</i>	29, Nov 2019	Bannari Amman Institute of Technology, Erode
40.	Design and Implementation of Flexible Wearable Photovoltaic Cell for Military Applications on <i>CSIR Sponsored National Conference on New- Generation Materials for Energy Applications-2019</i> ; ISBN: 13:978-81-942285-1-6	21-22, Oct 2019	B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai
41.	Design and implementation of flexible wearable photovoltaic cell for Military Applications on <i>National Conference on Recent Advances in On- Board Ship Automation (RAOBSA-2019)</i> ; ISBN: 978-93-85434-75-4	26-27, Sept 2019	AMET Deemed to be University, Chennai
42.	Crane Control by Hand Gesture Using Flex Sensor on <i>National Conference on Recent Advances in On- Board Ship Automation (RAOBSA-2019)</i> ; ISBN: 978-93-85434-75-4	26-27, Sept 2019	AMET Deemed to be University, Chennai
43.	Multi carrier based New Random Pulse Width Modulation for Three phase Inverter on <i>National Conference on Recent Advances in On- Board Ship Automation (RAOBSA-2019)</i> ; ISBN: 978-93-85434-75-4	26-27, Sept 2019	AMET Deemed to be University, Chennai
44.	A Review of Power Quality Performance Analysis Using Shunt Active Power Filter on <i>International Conference on Sustainability Management of Advanced Renewable Energy Technologies (ICSMARET 2019)</i> ISBN: 978-93-5361-004-3	11-12, Apr 2019	Aarupadai Veedu Institute of Technology (Deemed to be University)
45.	Analysis of Dissolved Gases in Transformer Oil using Wireless Data Acquisition on <i>National Conference on Cutting Edge Innovations in Engineering and Technology [CEIET - 2019]</i>	15, Mar 2019	Cheran College of Engineering, Karur
46.	Design of Space Vector PWM Inverter for Induction Motor Drive Application Using PID Controller on <i>International Conference on Intelligence in Computation, Communication and Robotics (ICICCR 2019)</i>	22-23, Feb 2019	Bharath Institute of Higher Education and Research (Deemed to be University)
47.	Performance Analysis of Power Quality Improvement Using Shunt Active Power Filter on <i>international conference on Innovations and research in Marine Electrical and Electronics Engineering (ICIRMEEE 2018)</i> , ISBN: 978- 93-85434-709	27-28, Sept 2018	AMET University
48.	Design of SVPWM Inverter for Induction Motor Drive Using Neural Network Predictive Control on <i>international conference on Innovations and research in Marine Electrical and Electronics Engineering (ICIRMEEE 2017)</i>	6, Oct 2017	AMET University
49.	Design of SVPWM Inverter for Induction Motor Drive Using Neural Network Predictive Control on <i>National conference on Technological Innovations in Electrical Engineering (NCTIEE 2014)</i>	28, Mar 2014	K.S.R college of Engineering, Chennai

50.	Power Factor Correction Improvement for Single Phase Ac/Dc Converter Using Enabling Window Control on international conference on Power Electronics and Renewable Energy System (ICPERES 2014)	26, Feb 2014	Rajalakshmi Engineering College, Chennai
51.	Design of SVPWM Inverter for Induction Motor Drive Using PID Control on National conference on Recent Developments in Power Electronics Based Applications (NCRDPEA 2014)	5, Apr 2014	Mailam college of Engineering, Villupuram
52.	Design of Voltage Source Inverter Using SVPWM for Induction Motor Drive Application on international conference on Science and Innovative Engineering, Organized by Organization of Science and Innovative Engineering and Technology (OSIET 2014)	6, Apr 2014	Jawahar Engineering College, Chennai
53.	Design of SVPWM Inverter for Induction Motor Drive Using Neural Network Predictive Control on IEEE-International Conference on Advance in Engineering and Technology (ICAET 2014); ISBN No: 978-1-4799-4949-6	2, May 2014	E.G.S Pillay Engineering College, Nagapattinam
54.	Performance Analysis of Dc-Dc Converter with Voltage Lift Circuits on international conference on System Methodologies Automation and Research Trends (SMART 2012)	12-14, Dec 2012	Sri Manakula Vinayagar Engineering College, Pondicherry

BOOK/CHAPTER PUBLICATIONS				
S. No	Title of Book/ Chapter	Year	Type of Publication	Publisher
1.	Transforming the Cruise Industry by Navigating Environmental Challenges and Prioritizing Sustainable Sea Tourism, ISBN: 979-8-89881-681-0	2026	Book Chapter (SCOPUS)	Bentham Science
2.	A Comprehensive Review of Smart Environmental Monitoring Systems Using IoT and Sensors for a Greener Future, ISBN: 978-981-92-0294-2	2026	Book Chapter (SCOPUS)	Springer, Singapore
3.	Review of IoT-Powered Smart City for a Smarter and Sustainable Future, ISBN: 978-981-92-0294-2	2026	Book Chapter (SCOPUS)	Springer, Singapore
4.	Bio-Inspired Algorithm-based Performance Enhancement of Solar-powered SR Motor for Sustainable Marine Propulsion, ISBN: 979-8-89881-408-3	2026	Book Chapter (SCOPUS)	Bentham Science
5.	Intelligent Cognitive Support Systems for Operators in Industry 5.0, ISBN: 979-8-89881-441-0	2026	Book Chapter (SCOPUS)	Bentham Science
6.	Distributed Energy and Smart Grids: Sustainable Energy for the Future, ISBN: 979-8-89881-339-0	2026	Book (SCOPUS)	Bentham Science
7.	Photovoltaic-Powered Underwater Propulsion System with Improved Power Quality Using a Shunt Active Power Filter, ISBN: 979-8-89881-339-0	2026	Book Chapter (SCOPUS)	Bentham Science
8.	Enhancing Sustainability: Integrating Renewable Energy Sources into Smart Grids for Efficient and Resilient Energy, ISBN: 979-8-89881-339-0	2026	Book Chapter (SCOPUS)	Bentham Science
9.	Grid Automation Technologies and Control Mechanisms, ISBN: 979-8-89881-339-0	2026	Book Chapter (SCOPUS)	Bentham Science
10.	An Overview of Technologies, Energy Management Systems, and Challenges in Integrating Solar Energy Systems for Energy Transition, ISBN: 979-8-89881-339-0	2026	Book Chapter (SCOPUS)	Bentham Science
11.	Mixed Reality and AI for Smart Aviation Sector; ISBN: 978-13-94268-76-4	2025	Book Chapter (SCOPUS)	Wiley Scrivener
12.	A Comprehensive Assessment of Unmanned Aerial Vehicles' Fuel Cell Electric Propulsion Systems"; ISBN: 978-13-94268-76-4	2025	Book Chapter (SCOPUS)	Wiley Scrivener

13.	Pioneering Sustainable Innovations in Renewable Energy Technologies", ISBN: 979-83-69399-24-8	2025	Book Chapter (SCOPUS)	IGI Global
14.	Integrating Intelligent Mobile Systems, IoT, and Ecosystems: Advancing Connectivity and Innovation in a Digital World, ISBN: 979-83-37303-30-7	2025	Book Chapter (SCOPUS)	IGI Global
15.	Application Of AI-Based Technologies in The Healthcare Sector: Opportunities, Challenges and Its Impact – Review; ISBN: 978-1-394-24926-8	2025	Book Chapter (SCOPUS)	Wiley Scrivener
16.	Innovative Digital Pedagogical Practices for Early Childhood Education 4.0; ISBN:979-83-69374-37-5	2025	Book Chapter (SCOPUS)	IGI Global
17.	Renewable Energy Powered Switched Reluctance Motor for Marine Propulsion System Using Soft Computing Techniques; ISBN: 978-10-03462-46-0	2024	Book Chapter (SCOPUS)	CRC Press
18.	Hybrid Energy Storage System for Battery-Powered Electric Vehicles, ISBN: 978-13-94261-69-7	2024	Book Chapter (SCOPUS)	WILEY Scrivener
19.	Advanced Technology and Its Impact: A Sustainable Development Goal in Maritime Sector; ISBN: 978-98-15256-68-0	2024	Book Chapter (SCOPUS)	Bentham Science
20.	Renewable Energy Based Battery Powered Storage System for Marine Application in Vol I; ISBN: 978-93-90188-13-0	2023	Book Chapter	ESN Publications
21.	Application of AI-Based Technologies in The Healthcare Sector: Opportunities, Challenges and Its Impact - Review; ISBN: 978-93-91768-81-2	2022	Book Chapter	Bhumi Publishing
22.	Economic Impact of the Covid-19 in India; ISBN: 978-93-91768-84-3	2022	Book Chapter	Bhumi Publishing
23.	Innovations and Research in Marine Electrical and Electronics Engineering: ICIRMEEE 2021; ISBN: 978-0-7354-4203-0	2022	Book	AIP
24.	Recent Challenges and The Impact of Smart Technology in Shipping Industries; ISBN: 978-93-90956-62-3	2021	Book Chapter	AMET University
25.	Indian Economy during Covid Lockdown in Association with Asia Book of Records, Maximum Authors Contributing; ISBN: 978-81-947019-0-3	2021	Book Chapter	ESN Publications
26.	Holistic Research Perspectives (Design and Implementation of Wearable Photovoltaic Cell); VOL:5; ISBN: 978-81-942938-7-3	2020	Book Chapter	Centivens Institute of Innovative Research Pvt. Ltd., Coimbatore
27.	High Voltage Engineering; ISBN: 978-81-944871-4-2	2020	Book	ESN Publications
28.	Basic Electrical Engineering; ISBN: 978-81-945156-2-3	2020	Book	ESN Publications
29.	Fundamentals of Drives; ISBN: 978-81-945156-6-2	2020	Book	ESN Publications

RESEARCH PROPOSALS				
S. No	Investigator's	Agency	Sanctioned Amount	Year
1.	PI: G. Jegadeeswari Co-PI: Dr. D. Lakshmi	AMET SEED MONEY	Rs. 50,000	2024 & completed
2.	PI: Dr. G. Jegadeeswari Co-PI: Dr. R. Elavarasi	AICTE Conference Grant	3 Lakhs	2024
3.	PI: Dr. G. Jegadeeswari Co-PI: Dr. D. Lakshmi	AICTE Conference Grant	3 Lakhs	2024
4.	PI: Dr. G. Jegadeeswari Co-PI: Dr. R. Elavarasi	AICTE ATAL FDP	1 Lakh	2024
5.	PI: Dr. S. Priya Co-PI: G. Jegadeeswari	DST- Women Technological Park	3 Crores	2023

6.	PI: G. Jegadeeswari	NCW Grant for Professional Development Program	1 lakh	2023
7.	PI: G. Jegadeeswari	NCW Grant for Seminar/ Conference	1 lakh	2023
8.	PI: Dr. D. Lakshmi Co-PI: G. Jegadeeswari	TNSCST- Research Grant	5 Lakhs	2023
9.	PI: Dr. T. Sasilatha Co-PI: G. Jegadeeswari	AICTE- STTP	2.7 Lakhs	2021 & completed
10.	PI: G. Jegadeeswari, Co-PI: Dr. T. Sasilatha	AMET SEED MONEY	Rs. 80,000	2021 & completed
11.	PI: Dr. T. Sasilatha Co-PI: G. Jegadeeswari	DST- WTP	2 Crores	2019
12.	PI: Dr. T. Sasilatha Co-PI: G. Jegadeeswari	DST- TEC	5 Crores	2018
13.	PI: Dr. T. Sasilatha Co-PI: G. Jegadeeswari	SERB Grant for Seminar/ Symposium	1 lakh	2018
14.	PI: Dr. T. Sasilatha Co-PI: G. Jegadeeswari	NCW Grant for Seminar/ Conference	3 Lakhs	2018

		PATENT PUBLICATIONS	
Title of the Patent	Application No.	Year of Published	Published/ Granted
Blockchain Credential Device for Hr Applications	475160-001	Jan 2026	Published
Renewable Energy fed Switched Reluctance Motor Driven Marine Propulsion System	202441050488A	July 2024	Published
Convolutional Neural Network Based Technique to Identify the Security and Privacy Issues in Internet of Things Based Big Data Cloud Systems	202341032275 A	Aug 2023	Published
Energy Monitoring and Controlling of Hybrid Energy System	202241001375A	Jan 2022	Published

PROFESSIONAL DEVELOPMENT ACTIVITIES				
S.No	Title of Programme	Type of Programme	Date	Venue
1.	Emerging Power Converter Topologies and Control Methods for Electric Vehicles and Renewable Energy Systems	ATAL FDP (6 Days)	17 -22 Nov 2025	NIT Bhopal
2.	Carbon Neutrality for Smart and Sustainable Cities through Internet of Things – Energy Optimization Techniques	ATAL FDP (2 weeks)	27 Oct - 8 Nov 2025	AMET University, Chennai
3.	AI powered IOT Based Sustainable Energy Management	ATAL FDP (6 Days)	10-15, Feb 2025	College of Engineering, Guindy, Anna University
4.	Outcome Based Education and Application of Generative AI in Teaching and Research	FDP (1 week)	17-24, Apr 2024	Gauhati University
5.	Recent Advancement in Materials, Manufacturing and Technology	FDP (1 week)	30 Oct - 4 Nov 2023	Swarnandhra College of Engg and Tech
6.	Artificial Intelligence for Sustainable Development	FDP (1 week)	3-10, Oct 2024	Babu Banarasi Das University
7.	Outcome Based Research: VLSI Design and Modelling	ATAL FDP (6 Days)	11-16, Dec 2023	Bharath Institute of Science and Technology
8.	Artificial Intelligence	ATAL FDP (5 Days)	20-24, Apr 2023	Microsoft, SAP

9.	Design and Development of Industry led Curriculum in Technologies Era	AIU FDP	14-22, Dec 2022	AMET University, Chennai
10.	MATLAB - Artificial Intelligence and Optimization Techniques	FDP	21-25, Nov 2022	NTTTR, Chandigarh
11.	Quality Assessment and Accreditations in HEI's	Workshop	27-28 June. 2022	Sathyabama Institute of Science and Technology
12.	Revised Assessment and Accreditation Framework of NAAC: Understanding and Opportunities in HEIs	NAAC Workshop	6-7 May, 2022	Kongunadu College of Engineering and Technology, Trichy
13.	Accreditation Automation Platform for NBA/NAAC/ABET	Workshop	25 Mar, 2022	NITTTR, Chennai
14.	Advanced Technologies in Electrical Engineering	Workshop	21-22 Jan, 2022	SSN, Chennai
15.	NAAC revised Guidelines	FDP	26 July -1 Aug 2021	Career College, Bhopal
16.	Electric Vehicles	ATAL FDP (5 Days)	7-11, June 2021	NIT, Tiruchirappalli
17.	Modern Trends in Power Electronics and their applications	FDP	28 Jun – 2 July 2021	Vidya Jyothi Institute of Technology, Hyderabad
18.	Role of Smart Technology in Maritime Industries	AICTE STTP-III	14-19, Dec 2020	AMET University, Chennai
19.	Role of Smart Technology in Maritime Industries	AICTE STTP-II	23-28, Nov 2020	AMET University, Chennai
20.	Role of Smart Technology in Maritime Industries	AICTE STTP-I	2-7, Nov 2020	AMET University, Chennai
21.	Rocket Propulsion's	FDP	15-21, Oct 2020	Institute of Science & Technology, Chennai
22.	Learning Management Systems	ATAL FDP (5 Days)	21-29, Sept 2020	NITTTR, Chennai
23.	Blended Learning and Flipped Classroom	ATAL FDP (5 Days)	31 Aug - 4 Sept, 2020	NITTTR, Chandigarh
24.	Integration, storage and control in Hybrid Energy Systems (HES)	AICTE STTP-III	31 Aug – 5 Sept, 2020	Geethanjali College of Engineering and Technology, Hyderabad
25.	Integration, storage and control in Hybrid Energy Systems (HES)	AICTE STTP-II	17-22 Aug, 2020	Geethanjali College of Engineering and Technology, Hyderabad
26.	Online teaching and learning technologies	ATAL FDP (5 Days)	17-22 Aug, 2020	Mothilal Nehru National Institute of Technology, Allahabad
27.	Artificial Intelligence Using MATLAB	Workshop	13-14 Aug, 2020	St' Joseph College of Engineering, Chennai
28.	Future Research Scope in Electrical Engineering	FDP	22-26 June, 2020	St' Joseph College of Engineering, Chennai
29.	Explore Electrical Engineering in Industrial Applications	FDP	15-19 June, 2020	Manakula Vinayagar Institute of Technology, Puducherry
30.	Recent Trends in Electrical Engineering	FDP	1-5 June, 2020	B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai
31.	Modeling, Technologies & Control on Electric Vehicle	FDP	25-29 May, 2020	AMET University, Chennai
32.	Universal Human Values Inculcating Universal Human Values in Technical Education	AICTE	11-15 May, 2020	Anna University, Chennai
33.	Artificial Intelligence	STTP	4-8 May, 2020	NITTTR, Kolkata

34.	Statistical Methods and Applied Mathematics in Data Science	CSIR Seminar	13-14 Sept, 2019	IFET college of Technology
35.	Ocean Technology	Workshop	19-20 Aug, 2019	National Institute of Ocean Technology (NIOT), Govt of India, Chennai
36.	Advanced Trends in Renewable Sources of Energy	AICTE STTP	24-29 June, 2019	Prasad V. Pouluri Siddhartha Institute of Technology
37.	Smart Grid, Internet of Things, Green Computing – The Future of Energy Intelligence	AICTE Induction Program	16-21 July, 2018	Manakula Vinayagar Institute of Technology, Pondicherry
38.	Sustainable Energy for Smart Cities: Generation Storage and Utilization	AICTE Semianr	19-20 Jan, 2018	Sree Sastha Institute of Engineering and Technology
39.	Introduction to Robotics	Workshop	19-20 Mar, 2015	ERTS Lab, Dept. of Computer Science and Engineering, IIT, Bombay at Pondicherry Engineering College
40.	The GNU Octave	Workshop	17 Feb, 2014	Meenakshi Sundararajan Engineering College, Chennai
41.	Programmable Logic Controller (PLC)	Workshop	25 Feb, 2014	Anna University

			CERTIFICATION COURSE	
S.No	Name of Course	Duration	Year	Certification
1.	Soft Skill Development	8 Weeks	Jan-Mar 2024	NPTEL
2.	Yoga and Positive Psychology for Managing Career and Life	8 Weeks	Feb-Apr 2023	NPTEL (ELITE)
3.	Advanced Power Electronics and Control	8 Weeks	Jan-Mar 2019	NPTEL
4.	Basics of IPR	30 Hours	2022	Turnip innovations
5.	Entrepreneurship	30 Hours	2022	Turnip innovations
6.	E-Content Development	15 Hours	2020	International Institute of Organized Research
7.	Diploma in Computer Application	I Year	Oct 2005-06	

ACHIEVEMENTS AND AWARDS:

1. Dr. Radhakrishnan Best Teacher award 2023 at AMET University, Chennai
2. Best Paper Award in the International Conference on Sustainable Aerospace Technologies and Innovation (ICSATI2025) at VIT, Bhopal, Feb 2025
3. Best Paper Award in the international Conference on Fostering Sustainable Development through Innovation and Smart Technology organized by AMET Deemed to be University, Nov 2023
4. Letter of Appreciation for coordinating the international Conference at AMET Deemed to be University, Nov 2023
5. Letter of Appreciation for planting tree on IGEN Green day 2023
6. Pillars of India Award 2021 from World Book of Records, India Book of Records and Asia book of records on 27.11.2021
7. Letter of Appreciation as a Keynote Speaker for AICTE Sponsored STTP on “Role of Smart Technology in Maritime Industries” Organized by AMET Deemed to be University, Chennai on 18.12.2020
8. Young Scientist Award from International Scientist Award 2020 on Engineering, Science and Medicine during 20 & 21 November 2020

9. Letter of Appreciation as a Keynote Speaker for AICTE Sponsored STTP on “Role of Smart Technology in Maritime Industries” Organized by AMET Deemed to be University, Chennai on 30.11.2020
10. Best Paper Award in the International E -Conference on Recent Trends and Technologies in Soft Computing 2020 at St. Peter’s Institute of Higher Education and Research, Chennai on 28.09.2020 & 29.09.2020
11. Best Paper Award in the International E- Conference on Advances in Information Technology, Business Management and e- Commerce on 4th & 5th July 2020 at The Quaide Milleth College for Men, Chennai
12. Letter of Appreciation as a Keynote Speaker in Five Day Online FDP on “Recent Trends in Electrical Engineering” Organized by BSA Crescent Institute of Science and Tech, Chennai on 04th June 2020
13. Top 50 International Distinguished Young Researcher 2020, from GREEN THINKERZ SOCIETY, Punjab.
14. Certificate of Recognition by the Academic Council of uLektz as one of the “Tech Savvy Academicians in Higher Education across India for the year 2019”.
15. Best Paper Award in the International Journal of Recent Technology and Engineering -2019.
16. Recognition for conducting Environmental Awareness Programme on Green India Clean India- Plant a Tree: Save Earth & Lives in Collaboration with an NGO Thozhamai- 2019.
17. Green ThinkerZ Bright Researcher Award 2018, GREEN THINKERZ SOCIETY, Punjab.
18. Best Paper Award in the International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) – 2018.

SPECIAL SESSIONS DELIVERED:

- Keynote Speaker on the Title “Role of Electronics in Aerospace System” Organized by TEMS ERA “Wings of Aero” on 25.04.2021.
- Keynote Speaker on the Title “Greener Future of Maritime and Shipping Industry” in the AICTE Sponsored STTP Organized by AMET Deemed to be University on 18.12.2020.
- Keynote Speaker on the Title “Green Technology in Shipping Industries” in the AICTE Sponsored STTP Organized by AMET Deemed to be University on 27.11.2020.
- Keynote Speaker on the Title “Overview of Maritime Industries” in the AICTE Sponsored STTP Organized by AMET Deemed to be University on 04.11.2020.
- Keynote Speaker on the Title “Optimization Technologies for LFC in Deregulated Power Supply” in the Five-Day Online FDP Organized by BSA Crescent Institute of Science and Tech, Chennai on 04.06.2020.

EXTRA CURRICULAR ACTIVITIES

As a sports person, I've competed in athletics for over four years, winning multiple prizes in regional level. ■

- Won the winner up in Badminton (singles & doubles) during UG degree-2011.
- Won the winner up in table tennis during UG degree (doubles)-2011.
- Won the winner up in volleyball and throw ball during UG degree-2011.
- Won first prize in Rangoli competition held in my home town in 2016
- I’ve also served as the captain of my college volleyball team.