

## Faculty Profile



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

Assistant Professor (O.G)- EEE

### **HIGHLIGHTS:**

- Number of Journal Publications: 45
- H-Index: 6
- 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=\\_ezfpKsAAAAJ](https://scholar.google.com/citations?user=_ezfpKsAAAAJ)
- Anna University Faculty ID: 310346
- AICTE Faculty ID: 1-3696842764
- Anna University Supervisor ID: Nil
- LinkedIn: [www.linkedin.com/in/dr-g-jegadeeswari-948178210](http://www.linkedin.com/in/dr-g-jegadeeswari-948178210)

### **PROFESSIONAL BACKGROUND:**

- Teaching Experience till date: 10 Years 5 Months
- Industrial Experience: Nil

### **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 GUIDING:**

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

#### **SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:**

1. Dr. G. Jegadeeswari, Dr. R. Elavarasi, AICTE Conference- *worth 3 lakh/ Submitted in 2024*
2. Dr. G. Jegadeeswari, Dr. D. Lakshmi, AICTE Conference- *worth 3 lakh/ Submitted in 2024*
3. Dr. G. Jegadeeswari, Dr. R. Elavarasi, AICTE Online ATAL FDP- *worth 1 lakh / Submitted in 2024*
4. Dr. S. Priya, G. Jegadeeswari, DST- Women Technological Park- *worth 3 crores / Submitted in 2023*
5. G. Jegadeeswari, NCW under the scheme for Professional Development Program - *Worth 1 lakh/ Submitted in 2023*
6. G. Jegadeeswari, NCW under the scheme Seminar / Conference / Workshop- *Worth 1 lakh/ Submitted in 2023*
7. Dr. D. Lakshmi, G. Jegadeeswari, TNSCST- Research Grant- *Worth 5 lakhs/ Submitted in 2023*
8. Dr. T. Sasilatha, G. Jegadeeswari, AICTE STTP – *worth 2.7 lakhs / Sanctioned and completed in 2021*
9. Dr. T. Sasilatha, G. Jegadeeswari, DST under the scheme Science and Technology for Women – Economic Empowerment of rural women in Coastal regions of Kanchipuram District – *worth 2 crores / Submitted in August 2019*
10. Dr. T. Sasilatha, G. Jegadeeswari, DST under the scheme Establishing Technology Enabling Centers (Tec) In University System – 2018- *worth Rs. 5 Crores- Submitted in April 2018 and Decline*
11. Dr. T. Sasilatha, G. Jegadeeswari- SERB (Science & Engineering Research Board) under the scheme Seminar/ Symposium - IoT Driven Healthcare system for Remote Monitoring of Patients- *worth Rs. 1 lakh- Submitted in July 2018 and Decline*
12. Dr. T. Sasilatha, G. Jegadeeswari- NCW (National Council for Women) under the scheme Seminar / Conference / Workshop - Hygiene, water and Sanitary Issues Among the Women- *worth Rs. 3 lakhs- Submitted in October 2018 and Decline*
13. G. Jegadeeswari, Dr. T. Sasilatha, AMET under Seed Money Project - A Novel Optimization Algorithm for Torque Ripple Reduction and Performance Enhancement of Switched Reluctance Motor Driven Marine Propulsion System - *worth of Rs. 50,000/ Sanctioned and completed in 2024*
14. G. Jegadeeswari, Dr. T. Sasilatha, AMET under Seed Money Project - Advanced Control Methods for Torque Ripple Reduction and Performance Enhancement in Switched Reluctance Motor Drives- *worth of Rs. 80,000/ Sanctioned and completed in 2022*

#### **PATENTS PUBLISHED/GRANTED:**

- Renewable Energy fed Switched Reluctance Motor Driven Marine Propulsion System  
**Application No:** 202441050488A  
**Year of Published:** July 2024  
**Published/ Granted:** Published

- Convolutional Neural Network Based Technique to Identify the Security and Privacy Issues in Internet of Things Based Big Data Cloud Systems  
**Application No:** 202341032275 A  
**Year of Published:** Aug 2023  
**Published/ Granted:** Published
- Energy Monitoring and Controlling of Hybrid Energy System  
**Application No:**202241001375A  
**Year of Published:** Jan 2022  
**Published/ Granted:** Published

### **COURSES CERTIFIED:**

1. 8 Weeks NPTEL Course on “Soft Skill Development” during Jan-Mar 2024
2. 8 Weeks NPTEL Course on “Yoga and Positive Psychology for Managing Career and Life” during Feb-Apr 2023, awarded **ELITE Medal**
3. 8 Weeks NPTEL Course on “Advanced Power Electronics and Control” during Jan-Mar 2019
4. 10 hours course on “Basics of IPR” by Turnip innovations during 22.10.2022 to 28.10.2022
5. 10 hours course on “Entrepreneurship” by Turnip innovations during 11.07.2022 to 24.07.2022
6. 15 hours course on “E-Content Development” by International Institute of Organized Research on 08.05.2020
7. One year course on “Diploma in Computer Application” from Oct-2005 to Oct-2006

### **ACHIEVEMENTS AND AWARDS:**

1. Dr. Radhakrishnan Best Teacher award 2023 at AMET University, Chennai
2. 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
3. Letter of Appreciation for coordinating the international Conference at AMET Deemed to be University, Nov 2023
4. Letter of Appreciation for planting tree on IGEN Green day 2023
5. Pillars of India Award 2021 from World Book of Records, India Book of Records and Asia book of records on 27.11.2021
6. 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
7. Young Scientist Award from International Scientist Award 2020 on Engineering, Science and Medicine during 20 & 21 November 2020
8. 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
9. 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

10. 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
11. 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
12. Top 50 International Distinguished Young Researcher 2020, from GREEN THINKERZ SOCIETY, Punjab.
13. 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”.
14. Best Paper Award in the International Journal of Recent Technology and Engineering -2019.
15. Recognition for conducting Environmental Awareness Programme on Green India Clean India- Plant a Tree: Save Earth & Lives in Collaboration with an NGO Thozhamai- 2019.
16. Green ThinkerZ Bright Researcher Award 2018, GREEN THINKERZ SOCIETY, Punjab.
17. 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.

**CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:**

**INTERNATIONAL LEVEL:**

- Presented a paper titled “Metaheuristic Algorithm Based Switched Reluctance Motor Driven Marine Propulsion System” at 7th International Conference on Innovation and Technopreneurship (ICIT2024) at INTI University, Malaysia, 26.09.2024 & 27.09.2024
- Presented a paper titled “Renewable Energy Based 8/6 SRM Driven Marine Propulsion System Using Intelligent Controllers” at 7th International Conference on Innovation and Technopreneurship (ICIT2024) at INTI University, Malaysia, 26.09.2024 & 27.09.2024
- Presented a paper titled “A Novel High Gain Modified SEPIC Dc to Dc Boost Converter for Ship Propulsion System” at 7th International Conference on Innovation and Technopreneurship (ICIT2024) at INTI University, Malaysia, 26.09.2024 & 27.09.2024
- Presented a paper titled “Performance Enhancement of Switched Reluctance Motor for Marine Propulsion Systems” at International Conference on Modern Trends in Engineering and Management (ICMTEM) at Stella Mary’s College of Engineering, 02.04.2024

- Presented a paper titled “Performance Enhancement of Switched Reluctance Motor for Marine Propulsion Systems” at International Conference on Modern Trends in Engineering and Management (ICMTEM) at Stella Mary’s College of Engineering, 02.04.2024
- Presented a paper titled “Performance Enhancement of 8/6 Switched Reluctance Motor Powered by Renewable Energy for Marine Propulsion Systems” at International Conference on Fostering Sustainable Development through Innovation and Smart Technologies (FSDIST) at AMET University, Chennai, 30.11.2023; ISBN: 978-93-85434-94-5
- Presented a paper titled “Optimal Design of Modern Transformer-Less Photo Voltaic Inverter for Renewable Energy System” at International Conference on Academic & Industrial Innovations in Engineering (ICAIIIE) 2023 at PP Savani University, Gujarat during 12-13 August 2023
- Presented “Performance Comparison of a SRM with conventional PI, Fuzzy, ANN and CANN Controllers” at International Conference on Recent Trends and Innovations in Sustainable Electrical Energy Systems 2023 (RISEE 2023) at National Institute of Technology during 30-31 March 2023
- Presented “Performance Comparison of Dynamic Responses & Speed Control of Switched Reluctance Motor Using Pi & Fuzzy Logic Controller” 9th International IEEE Conference on Electrical Energy Systems (ICEES - 2023) organized at SSN College of Engineering, Chennai during March 23-25, 2023
- Presented “Performance Comparison of a SRM with conventional PI, Fuzzy, ANN and CANN Controllers” in the 37th Indian Engineering Congress held at Hotel Le Royal Meridian, Chennai during Dec 16-18, 2022.
- Presented “Grey Wolf Optimization Algorithm for Tuning Pi Controller Based Speed Control of Switched Reluctance Motor for Ship Propulsion Systems” on Third International Conference on Future Technologies (ICOFT 2021) in Manufacturing, Automation, Design and Energy (MADE) at National Institute of Technology, Karaikal during 14-18, December 2022
- Presented “CANN Based Performance Investigation of Four Phase 8/6 Switched Reluctance Motor” on International Conference on Innovation and Technopreneurship (ICIT2022) at INTI University, Malaysia during 22-23 September 2022
- Presented “Performance Evaluation of Four Phase 8/6 Switched Reluctance Motor for Ship Propulsion System” on 3 International E-Conference on Challenges and Opportunities in Renewable Energy, Smart Systems And E-Mobility (ICCORSE- 2022) at SRM Easwari Engineering College, Chennai during 7-8 October 2022;
- Presented “Soft Computing Based Torque Ripple Reduction for Switched Reluctance Motor” on International Conference on Role of Technology towards Sustainable Development, Innovation and Information Exchange in Business and Management at SIMATS School Of Management, Chennai during 29-30 July 2022; ISBN: 978-93-95196-14-7
- Presented “Optimal Design of Modern Transformer-Less Pv Inverter for Renewable Energy System” on AICTE Sponsored International Conference on Electrical Engineering (ICEEMR 2022)" at Chennai Institute of Technology, Chennai during 23-24 June 2022.
- Presented “Soft Computing Technique Based Torque Ripple Suppression in SRM For Electric Vehicle Application” on 1st International Conference on “Emerging Trends in Electric Vehicles and Smart Technologies (ICETEVST-22)” at SRM TRP Engineering College, Trichy during 21-22 April 2022; ISBN: 978-93-94899-37-7
- Presented “ANN and Fuzzy Logic Controller based Instantaneous Direct Torque Control for 8/6 Switched Reluctance Motor” on Second International Conference on Future Technologies (ICOFT

2021) in Manufacturing, Automation, Design and Energy (MADE) at National Institute of Technology, Karaikal during 16-18, December 2021

- Presented “Soft Computing Technique Based Fault Detection and Diagnosis in Three Phase Induction Motor” on AICTE sponsored International Conference on Future Challenges in Data Science and Engineering for Global Sustainability (FCDSEGS-2021) at Amritsar College of Engineering and Technology during 07-08, October 2021; ISBN: 978-93-91355-10-4
- Presented “Implementation of Fault Detection and Diagnosis in Three Phase Induction Motor Using Soft Computing Techniques” on International E-Conference on Challenges and Opportunities in Renewable Energy, Smart Systems And E-Mobility (ICCORSE- 2021) at SRM Easwari Engineering College, Chennai on 07.10.2021 & 08.10.2021; ISBN: 978-93-5566-573-7
- Presented “Automatic Operation of Accommodation Ladder on Tidal Ports” on 2021 IEEE Conference on Norbert Wiener in the 21st Century (21CW) at CEG, Anna University during 22-25, July 2021; ISBN: 978-1-7281-5384-1
- Presented “Mitigation of Power Quality Issues Using Dstatcom” on International Conference on Energy and Materials Technologies (ICEMT-2021) at SSN during 20-21, August 2021.
- Presented “Implementation of Power Factor Correction Boost Converter fed SRM for EV Applications” on International Conference on Sustainable Innovation in Science & Technology (ICSIST’21) at G H Raisonni University, Saikheda, MP on 26.02.2021 to 27.02.2021
- Presented “Performance Analysis of BLDC Motor with Multilevel Inverter” on International E - Conference on Recent Trends and Technologies in Soft Computing (ICRTSC’20) – 2020 at St. Peter’s Institute of Higher Education and Research, Chennai on 28.09.2020 & 29.09.2020; ISBN: 978-93-5416-195-7
- Presented “Implementation of fault detection and diagnosis of three phase induction motor” on AICTE Sponsored International E-Conference on Electrical, Communication and Computing (ICECC-2020) at Tagore Engineering College, Chennai on 20.8.2020 & 21.8.2020; ISBN: 978-81-947587-4-7
- Presented “Design of MOSFET Inverter of a Grid Connected Photovoltaic System” on AICTE Sponsored International E-Conference on Electrical, Communication and Computing (ICECC-2020) at Tagore Engineering College, Chennai on 20.8.2020 & 21.8.2020; ISBN: 978-81-947587-4-7
- Presented “Implementation of Thirty-One Level Cascaded Multilevel Inverter Fed Brushless Dc Motor Drive Applications” on International E-Conference on Challenges and Opportunities in Renewable Energy, Smart Systems And E-Mobility (ICCORSE- 2020) at SRM Easwari Engineering College, Chennai on 30.07.2020 & 31.07.2020
- Presented “Machining Behavior of Al6061 fly- ash Composites” on International E-Conference on Advances in Information Technology, Business Management, and e-Commerce - 2020 at The Quaide Milleth College for Men - Shift II, Medavakkam, Chennai on 04.07.2020 & 05.07.2020; ISBN: 978-93-5407-331-1
- Presented “Performance Analysis of An Enhanced Positive Output Super-Lift Luo Converter for Renewable Energy Applications” at 4th International Web Conference on Emerging Trends in Arts, Science, Engineering & Technology, Organized by DK International Research Foundation, Perambalur, Tamilnadu IWCETASET – 2020 on 28th June 2020; Proceedings / ISBN Number: 978-81-945642-3-2
- Presented “Improved Power factor and THD of CUK Converter using PMBLDC Motor for Electric Vehicles” on 1st International Conference on Computer Communications & Power

Systems (ICCCPS-2020) at Sri Venkateswara College of Technology, Chennai on 29.03.2020 & 30.03.2020

- Presented “Analysis of Knocking Characteristics in Dual Fuel Engine-The Effects on Diethyl Ether” on 3rd International Conference on Advance Scientific Innovation in Science, Engineering and Technology (ICASISSET-2020) at Bharath Institute of Higher Education and Research (Deemed to be University) on 15.05.2020 & 16.05.2020; ISBN: 978-93-5267-713-9; Page no: 128
- Presented “Multi Carrier Based New Random Pulse Width Modulation for Three Phase Inverters” on International Conference on Power Engineering Computing and Control” (PECCON 2019) at Vellore Institute of Technology (Deemed to be University), Chennai during 12.12.2019 to 14.12.2019
- Presented” A Review of Power Quality Performance Analysis Using Shunt Active Power Filter” on International Conference on Sustainability Management of Advanced Renewable Energy Technologies (ICSMARET 2019) at Aarupadai Veedu Institute of Technology (Deemed to be University) on 11.04.2019 & 12.04.2019; ISBN: 978-93-5361-004-3; Page no: 236- 239
- Presented “Design of Space Vector PWM Inverter for Induction Motor Drive Application Using PID Controller “on International Conference on Intelligence in Computation, Communication and Robotics (ICICCR 2019) at Bharath Institute of Higher Education and Research (Deemed to be University) on 22.02.2019 & 23.02.2019
- Presented “Performance Analysis of Power Quality Improvement Using Shunt Active Power Filter “on international conference on Innovations and research in Marine Electrical and Electronics Engineering (ICIRMEEE 2018) at AMET University on 27.09.2018 & 28.09.2018, ISBN: 978-93-85434-709
- Presented “Comparison of THD Reduction for Asymmetrical Cascaded H-Bridge Inverter” on international conference on Innovations and research in Marine Electrical and Electronics Engineering (ICIRMEEE 2017) at AMET University on 06.10.2017
- Presented “Design of SVPWM Inverter for Induction Motor Drive Using Neural Network Predictive Control” on international conference on Innovations and research in Marine Electrical and Electronics Engineering (ICIRMEEE 2017) at AMET University on 06.10.2017
- Presented “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) at Rajalakshmi Engineering College, Chennai on 26.02.2014
- Presented “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) at Jawahar Engineering College, Chennai on 06.04.2014
- Presented “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), at E.G.S Pillay Engineering College, Nagapattinam on 02.05.2014, ISBN No: 978-1-4799-4949-6@ 2014 IEEE
- Presented “Performance Analysis of Dc-Dc Converter with Voltage Lift Circuits” on international conference on System Methodologies Automation and Research Trends (SMART 2012), Vol. 1, 2012 at Sri Manakula Vinayagar Engineering College, Pondicherry December during 12.12.2012 to 14.12.2012

### **NATIONAL LEVEL:**

- Presented “Optimized Technique for Speed Control of Switched Reluctance Motor Based Marine Drives” Second National Conference on Fuel Cell and Electric Vehicle Technology (FCEVT - 2022) at SSN College of Engineering, Chennai during 25.11.2022 & 26.11.2022.
- Presented “Fault Detection and Diagnosis in Three Phase Induction Motor Using Neural Network Predictive Controller” on Virtual National Conference on Emerging Technologies in Energy Systems (NCETES-2020) at Prasad V. Potluri Siddhartha Institute of Technology, Vijayawada on 11.9.2020
- Presented “IoT Based Home Appliances Control” on National Conference on Recent Advances in Science, Engineering, and Management (NCRASEM 2020) at Tagore Engineering College, Chennai on 05.03.2020. Pg no. 86, ISBN: 978-81-943033-7-4
- Presented “Performance Analysis Of An Enhanced Positive Output Super-Lift Luo Converter For Renewable Energy Applications” on National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives PCID 2019 at Bannari Amman Institute of Technology, Erode on 29.11.2019
- Presented “Design and Implementation of Flexible Wearable Photovoltaic Cell for Military Applications” on CSIR Sponsored National Conference on New- Generation Materials for Energy Applications-2019 at B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai on 21.10.2019 & 22.10.2019. Pg no. 84-96, ISBN: 13:978-81-942285-1-6
- Presented “Multi carrier based New Random Pulse Width Modulation for Three phase Inverter” on National Conference on Recent Advances in On- Board Ship Automation (RAOBSA-2019) at AMET Deemed to be University, Chennai on 26.09.2019 & 27.09.2019. Pg no. 155-162, ISBN: 978-93-85434-75-4
- Presented “Design and implementation of flexible wearable photovoltaic cell for Military Applications” on National Conference on Recent Advances in On- Board Ship Automation (RAOBSA-2019) at AMET Deemed to be University, Chennai on 26.09.2019 & 27.09.2019, Pg no. 298- 303, ISBN: 978-93-85434-75-4
- Presented “Crane Control by Hand Gesture Using Flex Sensor” on National Conference on Recent Advances in On- Board Ship Automation (RAOBSA-2019) at AMET Deemed to be University, Chennai on 26.09.2019 & 27.09. 2019.Pg no. 89- 91, ISBN: 978-93-85434-75-4
- Presented “Analysis of Dissolved Gases in Transformer Oil using Wireless Data Acquisition” on National Conference on Cutting Edge Innovations in Engineering and Technology [CEIET - 2019] at Cheran College of Engineering, Karur on 15.03.2019.
- Presented “Design of SVPWM Inverter for Induction Motor Drive Using Neural Network Predictive Control” on National conference on Technological Innovations in Electrical Engineering (NCTIEE 2014) at K.S.R college of Engineering, Chennai on 28.03.2014
- Presented “Design of SVPWM Inverter for Induction Motor Drive Using PID Control “on National conference on Recent Developments in Power Electronics Based Applications (NCRDPEA 2014) at Mailam college of Engineering, Villupuram on 05.04.2014.
- **FACULTY DEVELOPMENT PROGRAMME:**
- One-week National level online Faculty Development Program on “Outcome Based Education and Application of Generative AI in Teaching and Research” Organized at Gauhati University during 17.4.2024 to 24.4.2024
- Six Days FDP on “Recent Advancement in Materials, Manufacturing and Technology” Organized by Swarnandhra College of Engg and Tech during 30.10.2023 to 04.11.2023



- One- Week Online FDP on “Artificial Intelligence for Sustainable Development”, Organized by Babu Banarasi Das University during 03.10.2023 to 07.10.2023
- ATAL Sponsored Six days Faculty Development Programme on “Outcome Based Research: VLSI Design and Modelling”, Organized by Bharath Institute of Science and Technology during 11.12.2023 to 16.12.2023
- ATAL Sponsored Five days Faculty Development Programme on “Artificial Intelligence”, Organized by Microsoft, SAP during 20.04.2023 to 24.04.2023
- AIU Sponsored FDP on “Design and Development of Industry led Curriculum in Technologies Era” at AMET University, Chennai during 14.12.2022 to 22.12.2022
- Five Days FDP on “MATLAB - Artificial Intelligence and Optimization Techniques” at NTTTR, Chandigarh during 21.11.2022 to 25.11.2022
- Five Days Online FDP on “Advanced Technologies in Electrical Engineering Research” at Sri Sairam Institute of Technology, Chennai during 1.8.2022 to 5.8.2022
- One- Week Online FDP on “Smart Grids and Micro Grids in Indian Context” mahatma Gandhi Institute of Technology, Hyderabad during 20.6.2022 to 24.06.2022
- Five Days FDP on “Artificial Intelligence and IoT Applications in Electrical Engineering” Arasu Polytechnic College, Kumbakonam during 31.08.2021 to 04.09.2021
- Seven Days National Workshop Cum FDP on “NAAC revised Guidelines” Career College, Bhopal during 26.07.2021 to 01.08.2021.
- ATAL Sponsored Five days Faculty Development Programme on “Electric Vehicles”, Organized by National Institute of Technology, Tiruchirappalli during 07.06.2021 to 11.06.2021
- Five Days International FDP on “Modern Trends in Power Electronics and their applications” Vidya Jyothi Institute of Technology, Hyderabad during 28.06.2021 to 02.07.2021
- AICTE Sponsored One-week Online STTP-III on “Role of Smart Technology in Maritime Industries” AMET Deemed to be University, Chennai during 14th to 19th December 2020
- AICTE Sponsored One-week Online STTP-II on “Role of Smart Technology in Maritime Industries” AMET Deemed to be University, Chennai during 23rd to 28th November 2020
- AICTE Sponsored One-week Online STTP-I on “Role of Smart Technology in Maritime Industries” AMET Deemed to be University, Chennai during 2nd to 7th November 2020
- Seven Days International Faculty Development Programme on “Rocket Propulsion’s Institute of Science & Technology, Chennai on 15.10.2020 & 21.10.2020
- ATAL Sponsored Five days Faculty Development Programme on “Learning Management Systems”, Organized by National Institute of Technical Teacher’s Training and Research (NITTTR), Chennai during 21.09.2020 to 25.09.2020
- ATAL Sponsored Five days Faculty Development Programme on “Blended Learning and Flipped Classroom”, Organized by National Institute of Technical Teacher’s Training and Research (NITTTR), Chandigarh during 31.08.2020 to 04.09.2020
- AICTE Sponsored one week Faculty Development Programme (STTP- III) on “Integration, storage and control in Hybrid Energy Systems (HES)”, Organized by Geethanjali College of Engineering and Technology, Hyderabad during 31.08.2020 to 05.09.2020
- AICTE Sponsored one week Faculty Development Programme (STTP- II) on “Integration, storage and control in Hybrid Energy Systems (HES)”, Organized by Geethanjali College of Engineering and Technology, Hyderabad during 17.08.2020 to 22.08.2020
- ATAL Sponsored Five days Faculty Development Programme on “Online teaching and learning technologies”, Organized by Mothilal Nehru National Institute of Technology, Allahabad during 17.08.2020 to 22.08.2020

- Five days Faculty Development Programme on “Insight and Trends in Data Analytics” Organized by Karpagam College of Engineering, Coimbatore during 21.08.2020 to 26.08.2020
- Five days Faculty Development Programme on “Trends in Electric vehicle” Organized by St’ Joseph Institute of Technology, Chennai during 20.07.2020 to 24.07.2020
- Three days National Level Faculty Development Programme on “Overview of Issues and Challenges in Power Sector” Organized by AMET Deemed to be University, Chennai during 10.07.2020 to 12.07.2020
- Three days Short Term Training Program on “Electric Vehicles and its Scenario in India “Organized by B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai during 01.07.2020 to 03.07.2020
- Six days Faculty Development Programme on “Disruptive Technologies in Electronics and Communications” Organized by Vidya Jyothi Institute of Technology, Hyderabad during 22.06.2020 to 27.06.2020
- Five days Faculty Development Programme on “Future Research Scope in Electrical Engineering” Organized by St’ Joseph College of Engineering, Chennai during 22.06.2020 to 26.06.2020
- Five days Faculty Development Programme on “Explore Electrical Engineering in Industrial Applications” Organized by Manakula Vinayagar Institute of Technology, Puducherry during 15.06.2020 to 19.06.2020
- Five days Faculty Development Programme on “Challenges and Innovations in Electrical Engineering Systems” Organized by Karpagam College of Engineering, Coimbatore during 09.06.2020 to 13.06.2020
- Five days Faculty Development Programme on “Recent Trends in Electrical Engineering” Organized by B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai during 01.06.2020 to 05.06.2020
- Five days Faculty Development Programme on “Modeling, Technologies & Control on Electric Vehicle” Organized by AMET University during 25.05.2020 to 29.05.2020
- Six days Faculty Development Programme on “Next Generation Intelligence” Organized by St’ Peter’s Institute of Higher Education and Research, Chennai during 20.5.2020 to 25.5.2020
- Seven days Faculty Development Programme on “Renewable Energy Sources- A way ahead” organized by MKSSS’s Cummins College of Engineering for Women, Nagpur during 15.05.2020 to 21.05.202
- Five Days Short Term Training Program on “Artificial Intelligence” organized by National Institute of Technical Teacher’s Training and Research (NITTTR), Kolkata during 04.05.2020 to 08.05.2020
- Five days Faculty Development Programme on “Technological Advancement in Power System Control, Power Controllers, Drives & E- Vehicles- TAPPAD 2020” organized by Dr. N.G.P Institute of Technology, Coimbatore during 27.04.2020 to 01.05.2020
- Seven Days National Level Faculty Development Program on “Effective Teaching and Research Skills” at Vidya Jyothi Institute of Technology, Hyderabad on 5.11.2019 to 11.11.2019
- AICTE sponsored six days short term training Programme on “Advanced Trends in Renewable Sources of Energy “at Prasad V. Pouluri Siddhartha Institute of Technology during 24.06.2019 to 29.06.2019.
- One-week AICTE & ISTE Sponsored Induction/ Refresher Program on ‘Smart Grid, Internet of Things, Green Computing – The Future of Energy Intelligence” – 2018 at Manakula Vinayagar Institute of Technology, Pondicherry during 16.07.2018 to 21.07.2018.

## **WORKSHOP/SEMINAR:**

- Two days' Workshop on "Quality Assessment and Accreditations in HEI's", Sathyabama Institute of Science and Technology during 27.6.2022 to 28.6.2022
- One Day Webinar on "Accreditation Automation Platform for NBA/NAAC/ABET" at NITTTR, Chennai on 25.03.2022.
- Two days' Workshop on "Advanced Technologies in Electrical Engineering" at SSN during 21.01.2022 to 22.01.2022
- Two days' Workshop on "Artificial Intelligence and Block Chain for Electrical Engineering" at SSN during 4.02.2022 to 5.02.2022.
- Two days Online workshop on "Artificial Intelligence Using MATLAB" by St' Joseph College of Engineering, Chennai during 13.08.2020 to 14.08.2020
- Five days Online workshop on Universal Human Values on the themes "Inculcating Universal Human Values in Technical Education" organized by AICTE during 11.05.2020 to 15.05.2020
- Three days National Level Workshop On "Artificial Intelligence and Machine Learning Using Python" at AMET University during 17.12.2019 to 19.12.2019
- Two days International Workshop on 'Ocean Technology' at National Institute of Ocean Technology (NIOT), Govt of India, Chennai on 19.08.2019 & 20.08.2019
- Two days National Workshop on 'Role of Surveillance Robots in Smart Factories' at AMET University on 21.08.2019 & 22.08.2019
- Two days' Workshop on 'Ethical Hacking and Cyber Security' at AMET University on 22.02.2019 & 23.02.2019
- Two days' Workshop on 'Simulation of Power System Transients in modern grids' at AMET University on 30.01.2019 & 31.01.2019
- Two days' Workshop on 'Hands-on Training on BIPED Walking Robot for Industrial Application' at AMET University on 30.08.2018 & 31.08.2018
- Two days National Workshop on 'Conceptual Practices in Industrial Automation' at AMET University in association with CDCE Automation & MSME, Govt of India on 13.12.2017 & 14.12.2017
- Two days National Workshop on 'Advances in Robotics and Artificial Intelligence' at AMET University on 07.12.2017 & 08.12.2017
- Two Days Workshop on 'Introduction to Robotics' organized ERTS Lab, Dept. of Computer Science and Engineering, IIT, Bombay at Pondicherry Engineering College, Pondicherry on 19.03.2015 & 20.03.2015
- Workshop on 'The GNU Octave' in association with Free Software Foundation Tamil Nadu (FSFTN) at Meenakshi Sundararajan Engineering College, Chennai on 17.02.2014
- One day Workshop on 'Programmable Logic Controller (PLC)' in association with Technocrat Automation Solutions Pvt. Ltd at AC Tech, Anna University on 25.02.2014
- Two Days NAAC Sponsored Seminar on "Revised Assessment and Accreditation Framework of NAAC: Understanding and Opportunities in HEIs" Kongunadu College of Engineering and Technology, Trichy during 06.05.2022 to 07.05.2022
- Two days International Seminar on "Recent Advancements in Energy Storage Systems for Electric Vehicles" at SRM Institute of Science & Technology, Chennai on 17.10.2020 & 18.10.2020
- Two days National level seminar on "Statistical Methods and Applied Mathematics in Data Science" at IFET college of Technology, sponsored by Council of Scientific and Industrial Research (CSIR), New Delhi on 13.09.2019 & 14.09.2019

- Two days Seminar on ‘Analysis of Transient in Power Systems Using Electromagnetic Transient Program (EMTP-RV)’ at AMET University on 08.03.2018 & 09.03.2018
- AICTE Sponsored two days national level seminar on “Sustainable Energy for Smart Cities: Generation Storage and Utilization” at Sree Sastha Institute of Engineering and Technology on 19.01.2018 & 20.01.018.

#### **PROFESSIONAL MEMBERSHIPS:**

- IEEE
- ISOI
- IGEN Ensav
- International Association of Academic Plus Cooperate Society (IAAC)
- Internet Society
- Institute of Research Engineers and Doctors (IRED)
- International Association of Engineers (IAENG).
- Hong Kong small and medium enterprises (HKSME)
- Eurasia Research in association with Teaching and Education Research Association (TERA)
- Institute for Engineering Research and Publication (IFERP)
- International Economics Development and Research Center (IEDRC)
- Science and Engineering Institute (SCIEI)
- Indian Academicians and Researchers Association (IARA)
- International Association of Online Engineering (IAOE)
- International Management Research and Technology Consortium (IMRTC), USA
- The Society of Digital Information and Wireless Communications (SDIWC)

#### **OTHER DETAILS (If any):**

#### **BOOK/CHAPTER PUBLICATION:**

##### **BOOK CHAPTER**

- Authored a book chapter titled "Innovative Digital Pedagogical Practices for Early Childhood Education 4.0" Published by IGI Global, January 2025; ISBN:979-83-69374-37-5; **(Scopus Indexed)**
- Authored a book chapter titled “Application Of AI-Based Technologies in The Healthcare Sector: Opportunities, Challenges and Its Impact – Review”, Published by WILEY Scrivener, **Accepted (Scopus Indexed)**
- Authored a book chapter titled “A Review on Mixed Reality and Artificial Intelligence for Smart Aviation Sector: Current Trends, Opportunities and Challenges”, Published by WILEY Scrivener, **Accepted (Scopus Indexed)**
- Authored a book chapter titled “Advanced Technology and Its Impact: A Sustainable Development Goal in Maritime Sector "Published by Bentham Science; October 2024, ISBN:978-98-15256-68-0 **(Scopus Indexed)**
- Authored a book chapter titled “Renewable Energy Powered Switched Reluctance Motor for Marine Propulsion System Using Soft Computing Techniques” Published by CRC Press, August 2024; ISBN: 978-10-03462-46-0; **(Scopus Indexed)**

- Authored a book chapter titled “Hybrid Energy Storage System for Battery-Powered Electric Vehicles” Published by WILEY Scrivener; March 2024, ISBN: 9781394261697; (**Scopus Indexed**)
- Authored a book chapter titled “Renewable Energy Based Battery Powered Storage System for Marine Application” for the book titles “Renewable Energy Resources in Electric power System” in Vol I, Published by ESN Publications, September 2023; ISBN: 978-93-90188-13-0
- Authored a book chapter titled “*Application Of AI-Based Technologies in The Healthcare Sector: Opportunities, Challenges and Its Impact - Review*” for the book titles *Advances in Biomedical and Healthcare Science*” in Vol I, Published by Bhumi Publishing, December 2022; ISBN: 978-93-91768-81-2
- Authored a book chapter titled “*Economic Impact of the Covid-19 in India*” for the book titled “*COVID 19: Impact and Response*”, Vol IX, Published by Bhumi Publishing, April 2022; ISBN: 978-93-91768-84-3
- Authored a book chapter titled “*Recent Challenges and The Impact of Smart Technology in Shipping Industries*” for the book titled “*Emerging Technologies and Innovative Research in Science, Engineering and Management - ETIRSEM 2021*”, June 2021; ISBN: 978-93-90956-62-3
- Authored a book chapter titles “*Indian Economy during Covid Lockdown*” for the book title “*Energy and Power*” Published by ESN Publications in Association with *Asia Book of Records, Maximum Authors Contributing for a Book on Covid-19 and its Impact*; February 2021; ISBN: 978-81-947019-0-3
- Authored a book chapter titled “*Holistic Research Perspectives (Design and Implementation of Wearable Photovoltaic Cell)*” Published by Centivens Institute of Innovative Research (CIIR) Pvt. Ltd., Coimbatore; VOL:5, November 2020; ISBN: 978-81-942938-7-3; <https://doi.org/10.47059/CIIR/BP20002>

### **EDITED BOOK:**

- Editor for a book titled “Innovations and Research in Marine Electrical and Electronics Engineering: ICIRMEEE 2021” in Vol: 2455, Published by AIP, October 2022; ISBN: 978-0-7354-4203-0

### **BOOK:**

- Authored a book titled “*High Voltage Engineering*” Published by ESN Publications; February 2020; ISBN: 978-81-944871-4-2
- Authored a book titled “*Basic Electrical Engineering*” Published by ESN Publications; February 2020; ISBN: 978-81-945156-2-3
- Authored a book titled “*Fundamentals of Drives*” Published by ESN Publications; February 2020; ISBN: 978-81-945156-6-1

### **EXTENSION/ COMMUNITY DEVELOPMENT PROGRAM ORGANIZED**

- Awareness Programme on “*Importance of Digital India and its impact*” for School Student on 23rd March 2024 at Karapakkam High School, Chennai.
- Extension Activity on “*Digital Creators*” to AMET Students on 24th February 2024 in AMET University
- Extension Activity on “*Mastering the Digital Domain for Tomorrow’s Innovators*” to AMET Students on 25th November 2023, in AMET University.

- Extension Activity on Hands-on Training on “*ANIMATE & CREATE*” on 23rd September 2023 in AMET University.
- Awareness Programme on *Sexual Harassment of Women-Prevention, Prohibition and Redresser* in association with Annai Fathima Child Care Centre on 26.11.2022 to 2.12.2022 at AMET University
- *Environmental Awareness Program on GREEN INDIA CLEAN INDIA – Plant a Tree: Save Earth & Save Lives* in association with THOZHAMAI, NGO’s on 12.11.2019
- *Creating Awareness on Water, Sanitation and Hygiene (WASH)* in association with RAGAS Dental College & Hospital, Uthandi on 06.02.2019
- *Diploma Distribution Function for Diploma in Fisheries Engineering* in association with Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Govt of India on 19.11.2018

### **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.