

Name: S.THAMIZMANI

Designation: ASSISTANT PROFESSOR

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- **Research Area**: Performance analysis of Smart Distribution Network with large scale integration of Electrical Vehicle (EV) and Renewable Energy Sources (RES).

- **Educational Qualifications**:

Qualification	Department	Year (From -To)	Percentage	Class
M.TECH	Electrical Engineering	2008 to 2010	73.7	First Class
B.E	Electrical and Electronics Engineering	2004 to 2008	75	First Class

- **Experience: (15.2 Years)**

Name of Company / Institutions	Designation of Post	From	To	Experience in Year
		DD-MM-YYYY	DD-MM-YYYY	
8148 - University College of Engineering Ariyalur	Assistant Professor – EEE	08-12-2025	Till Date	0.42 Years
2127 - Sri Venkateswara College of Engineering Sriperumbudur (Autonomous)	Assistant Professor – EEE	01-08-2016	05-12-2025	9.33 Years
5101- Adhiparasakthi College of Engineering, Kalavai, Vellore.	Assistant Professor – EEE	17-08-2010	01-02-2016	5.42 Years

- **Additional / Academic Responsibilities at University:**

Exam Cell Coordinator (APR/MAY- 2026 Exam)
Project Coordinator (JAN-MAY- 2026)
Faculty Advisor – Final Year EEE (JAN - MAY- 2026)
Electrical Machines Lab In-charge (JAN- MAY- 2026)

- **Professional Activities:**

  IFERP (Institute for Educational Research and Publication) Member

- **Completed B.E/M.E Projects:**

S. No	Academic year	Project Titles
1	2025-26 (even)	IoT-Based Smart Transformer Health Monitoring System
2	2025-26 (even)	Design and Implementation of Dynamic Wireless EV Charging System using Renewable Energy Sources
3	2025-26 (even)	Automatic Power Factor Correction using FPGA
4	2023-24 (even)	Electric Vehicle Charging Optimization in Smart Grid Environment
5	2023-24 (odd)	Building a sustainable future: Zero energy gated community
6	2022-23 (even)	Futuristic design of zero energy building with electric vehicle & demand side management
7	2022-23 (odd)	Analysis of demand side management in electric vehicle environment
8	2021-22 (even)	Machine learning based energy management using electric vehicle
9	2021-22 (odd)	Demand side energy management planning with electric vehicle
10	2020-21	Grid connected wind-photovoltaic cogeneration using back-to-back voltage source converters
11	2019-20	Analysis, Design and implementation of accurate ZVS angle control for EV's battery charging in wireless high power transfer
12	2018-19	Overall equipment effectiveness system for machines
13	2014-15	Analysis and design of grid connected photo voltaic systems with multiple Integrated converters and pseudo-DC-link inverter.
14	2014-15	MPPT and DC voltage balancing control with both boost and buck-boost with Single switch.
15	2013-14	Design and implementation of hybrid EV using solar and fuel cell
16	2013 -14	Design of Fuzzy-PID controller for BLDC
17	2012 - 13	Energy management of a Fuel cell/Super capacitor/ Battery power source for EV application

- **Sponsored Research Activities:**

1) A Project titled "EEE-1860 Building Energy Conservation using Electric Vehicle" is shortlisted and funded with Rs. 7500/- by TNSCST (Tamilnadu State Council for Science and Technology) under STUDENT PROJECTS SCHEME 2022- 2023.
2) Carried out two days (27/06/2023 & 24/08/2023) detailed energy audit at GLR Laboratories, 444, Gokulam Street, Near St. Joseph High School, Ganesh Nagar, Mathur, Tamil Nadu-600068, and Identified upper limit load violation on the cables and the same is submitted as a report including suggestions to GLR Laboratories for further action.

- **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

1. Attended one week faculty training in the titled **"PCB Design"** organized by Tamil Nadu Skill Development Corporation, Government of Tamil Nadu through Naan Mudhalvan program held at Anna University from 29/12/2025 to 04/01/2026.
2. Participated in the Six days Faculty Development Programme on **"Intelligence Power Electronics and Cyber-Physical Energy Systems for a Sustainable Future",** organized by the Department of Electrical and Electronics Engineering, School of Electrical and Communication, in association with AICTE IDEA Lab of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, held from 17 th to 22 and November 2025.
3. Online IEI lecture series programme on **"Recent Advances In Electrical Engineering – Industry Perspective"** at SVCE, from 08/05/25 to 13/05/25.
4. Attended online workshop on **"Forecasting Using Machine Learning Tools"** in 11/01/25 at IIT Madras**.**
5. Attended Industrial training & internship on **"Robotics & Automation"** at TANSAM (Tamilnadu smart and advanced manufacturing centre), TITEL Park, Chennai from 9/12/24 to 13/12/24.
6. Attended two days Industry-assisted online lecture series on "**IoT Data Modelling"** on 12/04/24 & 13/ 04/24 by PALS
7. Attended the three days faculty development program on **"Virtual Labs"** held virtually between 15th – 17th November 2023 as part of the PALS VLAB 2023-2024 Initiative with NITK Surathkal.
8. Online IEI lecture series programme on **"Recent Research In Power System Engineering"** at SVCE, from 12/04/24 to 17/04/24.

9. Actively participated in the Webinar on **"Technology Day Talks"** organized by The Institution of Engineers (India) Kalpakkam Local Centre held virtually on 25-05-2023.
10. Presented a seminar titled **"Zero Energy Building (ZEB) with Electric Vehicle (EV) and Demand Side Management"** on Faculty Research Day- 2022 at Sri Venkateswara College of Engineering Sriperumbudur at 26.05.2023.
11. Participated in a one-day workshop on **"Curriculum design"** Organized by SVCE held on 18.10.2022.
12. Participated in the One Week International Faculty Development Program on **"Research Innovations and Emerging Advances in Electrical Engineering"** organized by the Department of Electrical & Electronics Engineering, Easwari Engineering College from 05th to 12th Jan 2023.
13. Attended two days online workshop on **"Issues of Renewable Energy Integration Smart Grid (IRESG-2022)"** held during April 22nd & 23rd 2022 at the Electrical Engineering Department, College of Engineering Bhubaneshwar, Odisha.
14. Presented a seminar titled **"Machine learning based energy management in smart distribution system with electric vehicles"** in Faculty Research Day- 2022 on 15.06.2022 at Sri Venkateswara College of Engineering Sriperumbudur.
15. Participated in Five days ATAL FDP on **"Electrical Distribution System Analysis with Renewable Energy Sources"** from 12.7.21 to 16.7.21 at National Institute of Technology, Kurukshetra
16. Two weeks FDP on **"Advanced Optimization Techniques and hands-on with MATLAB/SCILAB"** from 6.9.21 to 17.9.21, Supported by the Ministry of Electronics and Information Technology (MeitY), Government of India, Jointly Organised by Electronics & ICT Academy MNIT Jaipur, NIT Patna, PDPM IIIT DM Jabalpur. This program is endorsed by AICTE / UGC / NBA.
17. Five days online FDTP on **"MATLAB for System Design Engineers"** from 7.7.21 to 11.7.21 at SriVenkateswara College of Engineering, Sripurumbudur.
18. Six days AICTE-STTP on **"Electric Vehicle Evolution-Impact on Power Grid"** 22.3.21 to 27.3.21at Sri Venkateswara College of Engineering, Sripurumbudur.
19. Three days workshop on **"Technology Development of E-Vehicles"** from 28.5.20 to 30.5.20 at SriVenkateswara College of Engineering, Sripurumbudur.
20. Two days workshop on **"Protection of Power Transmission Lines"** from 27.5.20 to 28.5.20 at SriVenkateswara College of Engineering, Sripurumbudur.
21. Three days workshop on **"Technology Development of E-Vehicles"** from 28.5.20 to 30.5.20 at SriVenkateswara College of Engineering, Sripurumbudur.

22. Three days FDP on **"Electric Vehicles"** 20.5.20 to 22.5.20 at Mohamed Sathak A J College ofEngineering, Chennai.
23. Three days FDP on **"Research Avenue in Smart Grid Technologies"** from 28.5.20 to 30.5.20 atGCT Coimbatore.
24. Five days ATAL FDP on **"Electric Vehicles"** 30.11.20 to 4.12.20 at University College of Engineering Villupuram.
25. Seven days FDP **"Research Opportunities, Challenges in Power Electronics for EV and ItsImpacts on power grid"** from 14.12.20 to 20.12.20 at NIT Trichy
26. Two weeks FDP on **"Advanced Optimization Techniques and hands-on with MATLAB/SCILAB**" from 13.7.20 to 26.7.20, Supported by the Ministry of Electronics and Information Technology (MeitY), Government of India, Jointly Organised by Electronics & ICT Academy MNIT Jaipur, NIT Patna, PDPM IIIT DM Jabalpur. This program is endorsed by AICTE / UGC / NBA.
27. Five days FDP on **"Emerging Techniques in Smart Power System: Challenges and Solutions"** from 24.8.20 to 28.8.20 at NIT WARANGAL
28. Participated in Five days AICTE Sponsored Faculty Development Program on **"Advanced Topics in Power System Protection"** from 27- 31 May 2019 at IISC Bangaluru
29. Two days workshop on **"Grid Stability with Distributed Generation-Advanced Ancillary Services"** from 5.9.19 to 6.9.19 at SVCE Sriperumbudur
30. Participated in two day workshop in the title of **"PLC and HMI Programming**" from 10.06.19 to 11.06.19 at MIT campus, Anna University, Chennai.
31. Participated in Five days MHRD-TEQIP Sponsored Faculty Development Program on **"Real Time Monitoring Protection and Control of Power System (RTMPC-2018)"** from 21- 26 May 2018 at National Institute of Technology Calicut (NIT Calicut).
32. Participated in Five days AICTE Sponsored Faculty Development Program on **"Nonlinear and Adaptive Control Design"** from 12- 16 June 2017 at IISC Bangaluru
33. Participated in one day workshop in the title of **"Research methodology**" on 19.08.17 at Sri Venkateswara College of Engineering, Sripurumbudur.
34. Participated in four days AICTE Sponsored Staff Development Program on **"Automatic Control System Design using MATLAB/SIMULINK"** at Indian Institute of Space Science and Technology(IIST), Trivandrum.
35. Participated in four days AICTE Sponsored Staff Development Program on "**Classical and Digital Controller Design using MATLAB/SIMULINK"** at Indian Institute of Space Science and Technology (IIST), Trivandrum.
36. Participated in four days "**Faculty Enhancement Workshop"** Conducted by Everonn

Technical Education India Limited at Chennai.

37. Participated in Two Weeks AICTE Sponsored Staff Development Program on **"Modelling and Analysis of Electrical Machines"** at Sri Ramakrishna Engineering College, Coimbatore.
38. Participated in One Week AICTE Sponsored Staff Development Program on **"Computer Intelligence to Power System Analysis, Control & Optimization"** at Pondicherry Engineering College, Pondicherry.
39. Three week **"Industrial training"** at VI Microsystems Pvt Ltd, Chennai in the following areas Microprocessor and Microcontroller, Embedded System, PLC and Instrumentation and Power Drives.
40. Active Organizer and Participant in Five days **"Automation Course"** Conducted by NITC.
41. Participated in One day **"Workshop on Robotics and Automation"** Conducted by Dr.M.G.R University at Chennai.

- **Publications :**

a. International Journals:

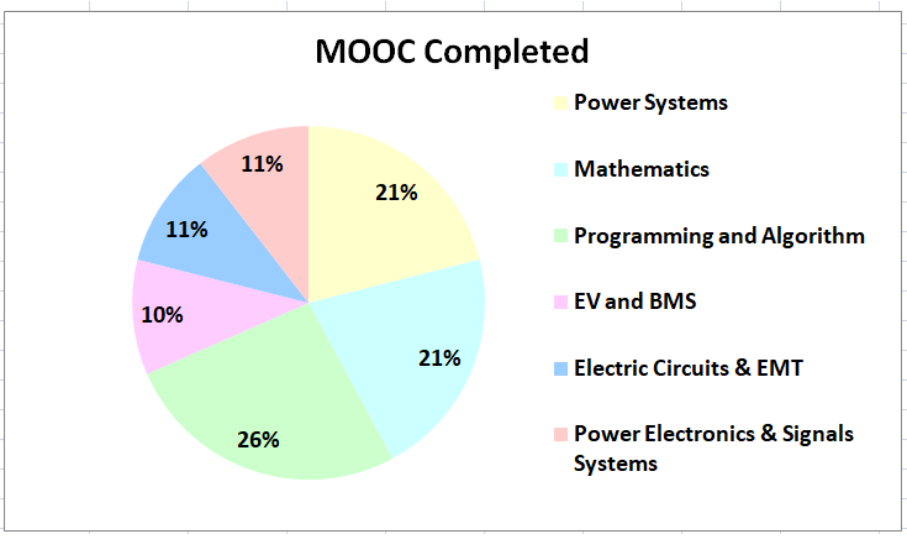
1. A Paper published in the title of "***Performance Evaluation of DC-DC Buck Converter by using PID, Posicast and LQR Controllers"*** in the International Journal of Management, technology, andEngineering.- ISSN NO: 229-7455 (Vol-9, Issue- 5, May 2019).
2. A Paper published in the titled ***"Design of Fuzzy PID Controller for Brushless DC Motor"*** in the International Journal of emerging research in Management and Technology.- ISSN: 2278-9359 (Vol-3, Issue-4).

b. Conferences

1. Attended and presented the paper titled "***Net Zero Energy and Carbon Emission Smart Building with Utilization of EV and Solar PV Generation***" in international conference on Energy and Carbon Management: Case Studies, Progress & Future Directions held on June 13th-14th, 2025 at IIT Guwahati. (***Selected oral papers will be published as a chapter in a Springer Nature Book***)
2. Attended and presented the paper titled ***"Real-Time Transient Stability Assessment of Post Fault Scenario in Power System by using Probabilistic Neural Network"*** in IEEE International Conference organized by IEEE Delhi section (DELCON) from 11th to 13th Feb 2022.

3. Attended and presented the paper titled ***"Impact of Large-Scale Integration of Electric Vehicles and Renewable Energy Sources on Distribution Network: A Review"*** in International E- Conference organized at Sri Venkateswara College of Engineering, Sriperumbudur, Tamil Nadu, from 27/01/ 21 to 29/01/21.
4. A Paper published in the title of **"Real *and Reactive Power Coordination for a Unified Power FlowController and Inter Line Power Flow*"** in International conference (ICEETS-2013) at St. Xavier's College of Engineering, Nagercoil, Tamil Nadu. ISBN: 978-1-4673-6149-1 (***Published inIEEE explore***)
5. A Paper published in the title ***"Design and Modelling of Grid-connected Wind- Solar Hybrid Power Systems"*** in the National Conference (NCAEEE-2018) at Sri Venkateswara College of Engineering, Sriperumbudur, Tamil Nadu.
6. A Paper published in the title of ***"Design and Implementation of Grid connected Photovoltaic System using Fly back Converter with a Pseudo DC link Inverter"*** in National conference (RTEECE15) at Sri Balaji Chockalingam Engineering College, Arni, Tamil Nadu.
7. Paper published in the title of ***"Design of LQR based PID controller design for BLDC motor"*** in National conference (ICEE-2K13) at Jayalakshmi institute of technology, Dharmapuri, Tamil Nadu.

- **Online Course Completed (in NPTEL, EDX and COURSEA):**



Sl. No	Name of the Course	Platform	Grade	Period	Duration
1	Physics-II (Electricity and Magnetism) ,Massachusetts Institute of Technology (MIT), Cambridge	EDX	Successfully Completed	Jun –Dec 2013	6 months
2	Data Science for Engineers, IIT Madras	NPTEL	Elite	Jul – Sep 22	8 Weeks
3	Electrical Distribution System Analysis, IIT Madras	NPTEL	Elite	Jul – Sep 2021	8 Weeks
4	Introduction to Machine Learning (Tamil), IIT Madras	NPTEL	Elite + Silver	Jan – Mar 2021	4 Weeks
5	Operation and Planning of Power Distribution Systems, IIT Guwahati	NPTEL	Elite + Silver	Jan – Apr 2022	12 Weeks
6	Electric Vehicles – Part 1, IIT Madras	NPTEL	Successfully Completed	Jan – Mar 2022	4 Weeks
7	Principles of Signals and Systems, IIT Kanpur	NPTEL	Successfully Completed	Jan – April 2019	12 Weeks
8	Energy Literacy Training by Energy Swaraj Foundation	Online	Successfully Completed	05.09.2024	12 modules
9	Introduction to Genetic Algorithm: Theory and Application – Udemy	Udemy	Successfully Completed	27.06.2022	7 hours
10	Power Electronics, University Colorado Boulder's, Colorado, US.	Coursera	Successfully Completed	Jan – Mar 2022	6 months
11	Introduction to battery-management systems, Universityof Colorado System	Coursera	91 %	21-06-2020	6 weeks
12	Programming for Everybody (Getting Started with Python), University of Michigan	Coursera	99.17 %	08-09-2020	9 weeks
13	Introduction to Programming with MATLAB, University of Michigan	Coursera	100 %	29-06-2020	12 weeks
14	Electric Power Systems - Vanderbilt University , University at Buffalo and The State University of New York	Coursera	95 %	15-05-2020	4 weeks
15	Linear Circuits 1: DC Analysis, Georgia Institute of Technology	Coursera	88.30 %	17-05-2020	4 weeks
16	Linear Circuits 2: AC Analysis, Georgia Institute of Technology	Coursera	95 %	20-05-2020	4 weeks
17	Differential Equations for Engineers, The Hong Kong University of Science	Coursera	70.10 %	20-08-2020	6 weeks

	and Technology				
18	Matrix Algebra for Engineers, TheHong Kong University of Science and Technology	Coursera	92.50 %	13-05-2020	6 weeks
19	Matrix Methods, University of Minnesota	Coursera	100 %	13-05-2020	4 weeks

DECLARATION:

I CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT TO THE BEST OF KNOWLEDGE AND BELIEF.

DATE: Signature With date