

FACULTY PROFILE



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1. Personal Details

Age : 34
Date of Birth : 01/05/1992
Sex & Marital Status : Male / Married
Citizenship : Indian

1.1 Qualification:

Degree	Programme and Specialization	Class /CGPA	Month &Year of Passing	Institute/University
PhD	High Voltage Engineering		Thesis Submitted	Anna University
M.E	HVE	I Class / 8.72	May 2015	National Engineering College, Kovilpatti.
B.E	EEE	I Class / 7.95	April 2013	Park College of Engineering and Technology, Coimbatore.

1.2 Professional Experience:

Designation	Institution/Organization	Period	Nature of Duties
Assistant Professor(SG)	National Engineering College, Kovilpatti.	01.04.2025 to Present	Teaching and Research
Assistant Professor		15.05.2015 to 31.03.2025	

2. Academic Achievements

2.1 Short term Courses / Seminars / Conference/ Workshops Attended:

Sl. No	Title	Period	Organized by
1	Five days workshop on “ Generative AI: Theory & Practice ”	01.12.2025 to 05.12.2025	Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram
2	FDP on “ Innovative Teaching Strategies with AI and Digital Tools ”	30.12.2024	Dept. of Research & Publications, A2Z Edu-ScaleUp
3	Two days workshop on, “ Energy Storage technologies for Micro-grid Energy management ”	20.12.2024 to 21.12.2024	National Institute of Technology, Thiruchirapalli.
4	Forty Hours Faculty Development Programme on “ Machine Learning and Generative AI ”.	22.07.2024 to 01.08.2024	E&ICT Academy, NIT Warangal & MLR Institute of Technology, Hyderabad.
5	Two days workshop on, “ MATLAB Toolbox-Image processing & Signal Processing ”	23.11.2023 to 24.11.2023	National Engineering College, Kovilpatti.
6	Five days Skill Enhancement workshop on, “ Electrical Drafting, Wiring, Automation & Solar Integration for Buildings (EDWAS) ”	17.07.2023 to 21.07.2023	National Institute of Technology, Puducherry.
7	NPTEL-AICTE Faculty Development Programme on “ Power System Analysis ”	Jul-Oct 2022	NPTEL (Online)-IIT Kharagpur
8	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on, “ State of the art applications and research areas in high voltage engineering (RAHVE-2021) ”	05.07.2021 to 09.07.2021	National Institute of Technology, Calicut
9	Webinar on “ Patent Process Overview ”.	24.05.2021	AISSMS College of Engineering, Pune, Maharashtra.
10	Recent Advances in Condition Monitoring of Power Equipment (Virtual FDP)	25.01.2021 to 30.01.2021	National Institute of Technology, Calicut
11	Circuit Design using AutoCAD Electrical	20.07.2020 to 24.07.2020	ICT Academy
12	Webinar on “ Future Electric Grid ”.	08.06.2020	Chennai Institute of Technology, Chennai.
13	Three days online webinar on, “ Protection and Switchgear ”.	20.05.2020 to 22.05.2020	PSNA College of Engg and Tech, Dindigul.
14	Two days online webinar on, “ Home Energy Assessment & Audit ”.	18.05.2020 to 19.05.2020	PSNA College of Engg and Tech, Dindigul.

15	AICTE-MARGDARSHAN Sponsored Faculty Development Programme on “Advanced Tools and Techniques for Research on Engineering Problems”	18.11.2019 to 23.11.2019	National Institute of Technology, Thiruchirapalli.
16	MHRD TEQIP-III Sponsored Faculty Development Programme on “Advanced Condition Monitoring Methods for Power Equipment”	09.07.2018 to 14.07.2018	National Institute of Technology, Calicut
17	Two Weeks AICTE sponsored faculty development Programme on “Recent trends and Applications of High Voltage Engineering”	06.11.2017 to 19.11.2017	National Engineering College, Kovilpatti
18	Two days training programme on “Protection Relay”	24.10.2017 to 25.10.2017	National Engineering College, Kovilpatti
19	Three days Quality improvement Programme on “Technology Enabled Teaching Learning Process” conducted by NITTTR, Chennai.	27.05.2017 to 29.05.2017	National Engineering College, Kovilpatti
20	One-week training Programme on “Instructional design and delivery systems”	22.05.2017 to 27.05.2017	National Engineering College, Kovilpatti
21	Five days QIP-AICTE sponsored short term course on “Recent Advances in UHV transmission and distribution”	19.12.2016 to 23.12.2016	Indian Institute of Science (IISc), Bangalore
22	Two Days National Workshop on “Image Processing using MATLAB”	16.09.2016 to 17.09.2016	KPR Institute of Engineering and Technology, Coimbatore
23	IEEE CIS Sponsored Three days workshop on “Implementation of Soft Computing Techniques” , ISCT'15	05.08.2015 to 08.08.2015	National Engineering College, Kovilpatti
24	One Day Pre-Conference Workshop Entitled “Programming, Simulation and Optimization Using MATLAB/SIMULINK”	04.13.2015	SVS College of Engineering, Coimbatore.
25	MNRE sponsored two day National Level Technical Seminar on “Adaptive Control of Integrating Renewable Energy Sources with Smart Grid Using Scada”	09.01.2015 to 10.01.2015	National Engineering College, Kovilpatti.
26	Two days National workshop on “Nano Materials Synthesis and Characterization”	25.02.2014 to 26.02.2014	K.S.Rangasamy college of Technology, Tiruchengode.
27	One day workshop on “VLSI design using PSPICE”	07.01.2012	SNS College of Technology, Coimbatore.

2.2 Expert Lecture Delivered:

Sl. No	Title	Date	Venue	Participants
1	<i>High Voltage generation & Testing Techniques – Practical Demonstration</i> (Field visit- IV year –EEE- AAA College of Engineering and Technology)	24.10.2024	High Voltage Laboratory, Dept of EEE, National Engineering. College, Kovilpatti	45
2	<i>“Condition Assessment of High Voltage Insulation in Power System Equipment”</i>	09.10.2023	Thomas Alwa Edison Hall, AAA College of Engineering and Technology	80
3	<i>High Voltage generation & Testing Techniques – Practical Demonstration</i> (Field visit- IV year –EEE- AAA College of Engineering and Technology)	27.09.2022	High Voltage Laboratory, Dept of EEE, National Engineering. College, Kovilpatti	27
4	<i>“Prediction of Pollution Severity in High Voltage Insulator using soft computing techniques”</i> - A Two Day online workshop on “Condition Monitoring and Diagnosis Techniques for High Voltage Power Apparatus using Soft Computing Approaches”.	12.03.2022	Dept of EEE, National Engineering. College, Kovilpatti	70
5	<i>“Basic Fundamentals and Need for Protection in Power System”</i> - A Two Day online workshop on “Smart Protection and control using Numerical Relay”	16.04.2021	Dept of EEE, National Engineering. College, Kovilpatti	64
6	<i>“Prediction of Pollution Severity in High Voltage Insulator using Machine Learning Techniques”</i> - A Two Day online workshop on “Application of Artificial Intelligence Techniques in High Voltage Engineering”.	05.02.2021	Dept of EEE, National Engineering. College, Kovilpatti	70
7	<i>“High Voltage Testing Techniques”</i> -NEC TECHFEST’2020, ALTANZIA	20.02.2020	Dept of EEE, National Engineering. College, Kovilpatti	20
8	<i>“Flashover characteristics on High Voltage Insulator”</i> - NEC-ALTANZIA 2K19	20.02.2019	Dept of EEE, National Engineering. College, Kovilpatti	30
9	<i>“High Voltage Testing Techniques”</i> , ALTANZIA 2K18	13.03.2018	Dept of EEE, National	82

			Engineering. College, Kovilpatti	
10	<i>“Outdoor Insulators for High Voltage Application”</i> - RTAHVE'17 AICTE Sponsored Two Week Faculty Development Programme on “Recent Trends and Applications of High Voltage Engineering”	08.11.2017	Dept of EEE, National Engineering. College, Kovilpatti	35

2.3 Online Certification Completed:

Sl. No	Certification	Period	Organizers	Remarks
1	NPTEL Online Certification on, <i>“Effective Engineering Teaching In Practice”</i>	Jan – Feb (2026) (4 Weeks)	Indian Institute of Technology (IIT), Madras.	Elite Silver
2	NPTEL Online Certification on, <i>“Sustainable Power Generation Systems”</i>	July-Oct (2025) (12 Weeks)	Indian Institute of Technology (IIT), Guwahati	Elite
3	NPTEL Online Certification on, <i>“Digital Circuits”</i>	July-Oct (2024) (12 Weeks)	Indian Institute of Technology (IIT), Kharagpur	Elite Silver & 5% Topper
4	NPTEL Online Certification on, <i>“Digital Electronic Circuits”</i>	Jan-Apr (2024) (12 Weeks)	Indian Institute of Technology (IIT), Kharagpur	Scored
5	NPTEL Online Certification on, <i>“Design Thinking-A Primer”</i>	July-Aug (2023)	Indian Institute of Technology (IIT), Madras.	Elite
6	COURSERA – <i>“Advanced Study of Protection Schemes and Switchgear”</i>	April 2023 (4 weeks)	L&T EduTech	95%
7	NPTEL Online Certification on, <i>“Power System Protection and Switch Gear”</i>	July-Sep (2021)	Indian Institute of Technology (IIT), Roorkee.	Scored
8	COURSERA- <i>“Safety in the Utility Industry”</i>	October 2021 (4 Weeks)	University at Buffalo	98.75%
9	UDEMY- <i>“Fundamental of Electrical Power System Protection”</i>		May 2021	
10	NPTEL Online Certification on <i>“Advances in UHV Transmission and Distribution”</i>	Sep-Nov 2020 (8 Weeks)	Indian Institute of Science (IISc), Bangalore	Elite Silver & 5% Topper
11	COURSERA- <i>“Introduction to Solar Cells”</i>	June 2020 (5 Weeks)	University of Denmark (DTU)	94.5%
12	MATLAB Online Certification on <i>“MATLAB Fundamentals”</i>	May 2020	Mathworks Training Services	

13	UDEMY- <i>“Power Management in India & Basic Concepts of Solar Photovoltaic Module”</i> .	April 2020		
14	MATLAB Online Certification on <i>“Machine Learning Onramp”</i>	April 2020	Mathworks Training Services	
15	COURSERA- <i>“Electric Power Systems”</i>	March 2020 (4 Weeks)	University at Buffalo The State University of New York	87.5%
16	MATLAB Online Certification on <i>“MATLAB Onramp”</i>	December 2019	Mathworks Training Services	
17	COURSERA- <i>“Programming for Everybody (Getting Started with Python)”</i>	December 2019 (4 Weeks)	University of Michigan	98%
18	NPTEL Online Certification on <i>“Recent Advances in Transmission Insulators”</i>	August – September 2018 (4 Weeks)	Indian Institute of Science (IISC), Bangalore	Elite
19	NPTEL Online Certification on <i>“Power System Engineering”</i>	January-April 2018 (12 Weeks)	Indian Institute of Technology (IIT), Kharagpur	Elite
20	NPTEL Online Certification on <i>“Electrical Machines-I”</i>	July-October 2017 (12 weeks)	Indian Institute of Technology (IIT), Kharagpur	Scored
21	NPTEL Online Certification on <i>“Introduction to Research”</i>	January-February 2016 (10 Hours)	Indian Institute of Technology (IIT), Madras	Elite

2.4 Industrial Training Attended:

S. No	Training Details	Period	Company Details
1	Faculty Industrial Training on <i>“Protection Switchgear”</i>	24.03.2026	Pentagon Switchgear Private Limited, Coimbatore.
2	Faculty Industrial Training on <i>“Transformer Manufacturing and Testing”</i>	26.12.2023 To 30.12.2023	JP Transformers, Madurai.
3	Faculty Industrial Training on <i>“Power System and Insulation Coordination Study”</i>	20.02.2023 to 24.02.2023	4A Design & Engineering Pvt.Ltd, Chennai
4	Faculty Industrial Training on <i>“Transformer Manufacturing and Testing”</i>	28.02.2022 to 04.03.2022	Padmavahini Transformers private Limited, Coimbatore.
5	Faculty Industrial Training on <i>“Transformer Manufacturing and Testing”</i>	19.11.2018 to 23.11.2018	Shree Abirami Enggineering works, Chennai.

6	Faculty Industrial Training on "High Voltage Testing Techniques"	05.06.2017 to 09.06.2017	Global Power Research Institute, NABL Certified Lab, Cuddalore.
7	Industrial Training Programme on "Design and Validation of Automobile Parts" .	05.12.2017	Mahindra Research Valley, Chennai.

3. Research Achievements

3.1 International Journal Publication

S.No	Title of the Paper	Name of the Journal	Vol. No. & Page No.	Month & Year
1	<i>An experimental study of the flashover performances of outdoor high-voltage polymeric insulators under fan-shaped pollution and dry band location</i>	Electrical Engineering (IF=1.6)	Vol. 107, no. 5, pp. 5719– 5735	Nov 2024
2	<i>Automatic Fish Feeder System</i>	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Volume-9 Issue-5, Page No. 70-72.	March 2020
3	<i>Investigation of Flashover Performance on 22kV Bushing with Non-Uniform Pollution</i>	International Journal of Applied Engineering Research (IJAER) – Annexure -II	ISSN 0973- 4562 Vol. 10 No.20	March 2015

3.2 International Conference Publication

S. No	Title of the Paper	Name of the Conference	Organizer	Month & Year	Publication
1	<i>Power Transformer Fault Diagnosis using Optimized Fuzzy C-Means Clustering</i>	7 th International Conference on Inventive Material Science and Applications (ICIMA-2025)	Muthayammal Engineering College, Rasipuram, Namakkal, India	28-30, May 2025	IEEE Xplore Digital Library. DOI: https://ieeexplore.ieee.org/document/11074083
2	<i>Machine Learning Models for DGA Detection in Power Transformers: A Comparative Study of SVM and Random Forest Techniques</i>	7 th International Conference on Inventive Material Science and Applications (ICIMA-2025)	Muthayammal Engineering College, Rasipuram, Namakkal, India	28-30, May 2025	IEEE Xplore Digital Library. DOI: https://ieeexplore.ieee.org/document/11073849

3	<i>Breakdown Voltage Performance of Transformer Oil under Impulse Voltage : An Experimental Approach</i>	7 th International Conference on Inventive Material Science and Applications (ICIMA-2025)	Muthayammal Engineering College, Rasipuram, Namakkal, India	28-30, May 2025	IEEE Xplore Digital Library. DOI: https://ieeexplore.ieee.org/abstract/document/11073940
4	<i>Mine Guard: Manually Controlled Surveillance Robot with Gas Detection for Mine Safety</i>	2024 4 th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)	Shree Venkateshwara Hi-Tech Engineering College, Gobichettipalayam, Erode India.	12-13, December 2024	IEEE Xplore Digital Library. DOI: 10.1109/ICUIS64676.2024.10866498
5	<i>Optimized Support Vector Regression model for accurate state of charge estimation of Li-Ion Phosphate batteries for Electric Vehicles</i>	4 th International Conference on Circuits, Control, Communication and Computing (I4C)	Ramaiah Institute of Technology, Bangalore, India.	04-05, October 2024	IEEE Xplore Digital Library. DOI: https://ieeexplore.ieee.org/document/10748470
6	<i>Experimental Study of Flashover Gradient for Different Types of Insulators in Different Salt Contamination Conditions</i>	Fifth International Conference on Advances in Electrical and Computer Technologies 2024 (ICAECT 2024)	Sengunthar Engineering College Tiruchengode, Tamilnadu, India.	26 – 27, September 2024.	Accepted for Publication
7	<i>Investigation of dielectric strength of transformer insulation fluid with and without bubbles under non-uniform electrode configuration</i>	Fifth International Conference on Advances in Electrical and Computer Technologies 2024 (ICAECT 2024)	Sengunthar Engineering College Tiruchengode, Tamilnadu, India	26 – 27, September 2024.	Accepted for Publication
8	<i>Vehicle Density Based Traffic Control System using Microcontroller</i>	2024, 10 th International Conference on Advanced Computing and Communication Systems (ICACCS).	Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, India.	14-15, March, 2024	IEEE Xplore Digital Library. DOI: https://ieeexplore.ieee.org/document/10717159
9	<i>Investigation of Electric Field</i>	2023 International Conference on Intelligent	PSG Institute of Technology and Applied	18-19, December 2023	IEEE Xplore Digital Library.

	<i>Patterns for Different Electrode Configurations with the Presence of Dielectric Barrier</i>	Technologies for Sustainable Electric and Communications Systems (iTech SECOM)	Research, Coimbatore, Tamilnadu, India.		DOI: 10.1109/iTechSECOM59882.2023.10435306
10	<i>Automatic Billing Trolley for an enhanced supermarket using RFID</i>	7th International Conference on Computing Methodologies and Communication (ICCMC)	Surya Engineering College, Erode, Tamilnadu, India.	04 April 2023	IEEE Xplore Digital Library. DOI: https://ieeexplore.ieee.org/document/10083555
11	<i>Investigation of Electric field distribution on a 33kV polymeric insulator under polluted conditions using Finite Element Method</i>	4th International Conference on Circuits, Control, Communication and Computing (I4C)	Ramaiah Institute of Technology, Bangalore, India.	21-23, December 2022	IEEE Xplore Digital Library. DOI: 10.1109/I4C57141.2022.10057935
12	<i>Investigation of High Voltage dielectric barrier and their effect on breakdown voltage using Numerical method.</i>	4th International Conference on Circuits, Control, Communication and Computing (I4C)	Ramaiah Institute of Technology, Bangalore, India.	21-23, December 2022	IEEE Xplore Digital Library. DOI: 10.1109/I4C57141.2022.10057682
13	<i>Automatic Indoor Hydroponic Plant Grow Pot using Arduino</i>	IEEE- International Conference on Artificial Intelligence and Smart Systems (ICAIS 2021)	JCT College of Engineering and Technology, Coimbatore, India.	23-25, February 2022	IEEE Xplore Digital Library. DOI: 10.1109/ICAIS53314.2022.9742782
14	<i>Car Parking Allocation System using Arduino</i>	IEEE- International Conference on Artificial Intelligence and Smart Systems (ICAIS 2021)	JCT College of Engineering and Technology, Coimbatore, India.	25-27, March 2021	IEEE Xplore Digital Library. DOI: 10.1109/ICAIS50930.2021.9395865
15	<i>Dimensionality Reduction and Feature Extraction using Image</i>	RTU TEQIP-III Sponsored, 3 rd International Conference on	Rajasthan Institute of Engineering and	27 th & 28 th February 2021	Springer Book Series, 'Algorithms for

	<i>processing techniques for classification of Single Partial Discharge Patterns</i>	Communication and Computational Technologies (ICCCT 2021)	Technology, Jaipur & Rajasthan Technical University Kota, India.		Intelligent Systems' DOI: 10.1007/978-981-16-3246-4_33
16	<i>Investigation of Pollution severity and dry and characteristics on 11KV composite Insulator</i>	2020 IEEE International Conference on Advances and Developments in Electrical and Electronics engineering (ICADEE 2020)	Karpagam College of Engineering, Coimbatore, India.	10 th & 11 th December 2020	IEEE Xplore Digital Library. DOI: 10.1109/ICAD EE51157.2020.9368945
17	<i>Prediction of flashover voltage on 11kV Composite Insulator using Kernel Support Vector Machine</i>	International Conference on Soft Computing for Problem Solving – (Springer)	VIT Vellore, Tamilnadu, India.	17 th – 19 th December 2018	Springer Book series- Advances in Intelligent Systems and Computing, Vol. 1057 DOI: 10.1007/978-981-15-0184-5_5
18	<i>Investigation of Flashover Performance on 22kV RTV Coated Bushing Under Non-Uniform Coastal Pollution</i>	IEEE International Conference on Electrical Energy Systems, ICEES 2018	SSN College of Engineering, Chennai, Tamilnadu, India.	7 th – 9 th February 2018.	IEEE Xplore Digital Library. DOI: 10.1109/ICEE S.2018.8443239
19	<i>Investigation of Non-Uniform Pollution on RTV Coated Bushing.</i>	IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2015	SVS College of Engineering Coimbatore, Tamilnadu, India.	05 th - 07 th March 2015	IEEE Xplore Digital Library. DOI: 10.1109/ICECCT.2015.7226002

4. Project Funding Received:

Sl. No	Project Title	Students and mentor	Funding Agency	Amount Received
1	<i>Design and Development of Density Based Traffic Control System</i>	Students: 1. VENKATESHKANNAN S 2. CHRISTEN.R 3. MOHAMMED ASIF A 4. ABISHEK THANASEELAN.T Mentor: K.Kumar, AP/EEE	TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY (2023-2024) Project ID: EEE-2010	Rs.7,500

5. Reviewer of the following International/National Journals & Conference:

- ✓ IET Science, Measurement & Technology
- ✓ IEEE 5th International Conference on Circuits, Control, Communication and Computing (I4C-2024) held during 4th – 5th October, 2024 at M.S.Ramaiah Institute of Technology, Bangalore.

5. Courses taught:

Course Title	U.G. or P.G.
Basic Electrical and Electronics Engineering, Basic Electrical Engineering, Electrical Machines, Digital Electronics, Electrical Power Systems, Power System Analysis, Protection and Switchgear, High Voltage Engineering, CAD of Electrical Apparatus, Insulation Technology, Renewable Energy Resources, Electrical safety operations and Regulations.	U.G (Theory)
Basic Electrical Engineering laboratory, Electrical Machines Laboratory, Digital Electronics Laboratory, Engineering Practices Laboratory, Power system simulation and High Voltage Laboratory.	U.G (Lab)
Electro Magnetic Interference and Electro Magnetic Compatibility, High Voltage Laboratory	P.G

6. Additional Responsibilities Held:

- Junior Jaycee- Coordinator
- Board of Studies (Asst)
- Industry Institution Interaction (Asst)
- Social Awareness Cell (Asst)
- Department Placement (Asst)
- Department Minutes of Meeting
- Dept Computer Centre (Asst)
- Professional Exam Competency Development Cell (Member)
- Government Exams (Coordinator)