

## Dr.D.Prakash,

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**Objective:** To serve and lead an organisation with a commitment to innovation in management, education, research, and technology and to share my knowledge, exposure, and experience in order to deliver the finest development strategies for an organization's overall growth.

### Professional strengths

- Possess excellent logical and critical thinking.
- Possess good management and communication skills.
- Ability to solve issues in a quick and efficient manner.
- Have good leadership and management skills.
- Good motivator and ability to handle multiple tasks.
- Determined and task oriented.

### Major Achievements

- Instrumental in obtaining accreditation from NAAC and National Board of Accreditation (NBA) in old format and Outcome Based Education format for Electrical and Electronics Engineering at Sri Ramakrishna Engineering College.
- Actively involved in Preparation and submission of research proposals to various funding agencies.
- Collaboration/MOU with organizations, managing the sponsored research and Consultancy activities.

### Responsibilities in Departments and Colleges:

- New Idea Lab setup, sponsored by AICTE in MSAJCE
- HOD for IT department in MSAJCE
- NAAC work team member.
- NBA criteria – 3, 5 & 7 in-charge.
- Time table in-charge for the academic years of 2008 to 2012.
- Department Library In-charge.
- ISO Co-ordinator in SREC.
- Department furniture in-charge.
- Industrial visit in-charge.
- Reserve superintends for Autonomous Examinations.
- **Assistant to controller of examinations.**
- Academic Co-ordinator (2009-2010 batch and 2006-2010 batch)
- BOS Member in EEE and ECE Departments.
- PMKVY in-charge in VTMT DrRR & Dr.SR Engineering college,
- Prepared an Energy Auditing report and submitted for our college (2009).
- Set up new Electrical Machines Lab and Electron Devices Laboratory for BSc (CT) department.
- In-charge for IEEE student's branch (2006-2007).
- Faculty advisor for Renewable Energy Club (2009-2013).
- College photographic in-charge.
- **MOU:** Faculty in-charge for the 'Texas Instruments Analog System Teaching Lab' setup through STEPS knowledge service ltd., Coimbatore.

## Educational Qualification

<b>Ph.d</b> 2011 – 2018	Faculty of <b>Electrical Engineering</b> , Anna University, Chennai. (Part Time) <b>Thesis Title:</b> Certain Investigations on Power Quality Enhancement Using Gravitational Search Algorithm Based D-STATCOM
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**Phd Research Abstract:** The research aims to enhance power quality in power distribution systems by implementing a distribution static synchronous compensator (D-STATCOM). It compares intelligent techniques like Artificial Neural Network, Fuzzy Logic Control, and Gravitational Search Algorithm with Adaptive GSA, finding Adaptive GSA the most efficient for PQ improvement.

<b>Master of Technology</b> 2021 – 2023	<b>Computer Science</b> Specialised Specialization in <b>Artificial Intelligence</b> , Amrita Vishwa Vidyapeedam, Coimbatore, , 6.62 (CGPA) (Full Time) <b>Dissertation Title:</b> Identification of Shortest Path For Electric Vehicle Charging Stations And Waiting Time Optimization
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**M.Tech Dissertation Abstract:** Increasing the travelling distance of the electrical vehicle by considering the nearest and freely available charging station in the Google map. In the proposed system, making prediction of battery discharge range by the driving style, number of passengers inside the vehicle and battery level. Finding out the shortest path using dijkstra's algorithm and A\* algorithm with help of genetic algorithm and particle swarm optimization and results were compared and PSO provides the best shortest path for the electric vehicle.

<b>Master of Engineering</b> 2003 – 2005	<b>Power Electronics and Drives</b> , Karunya Institute of Technology, Anna University, Chennai, , 6.93(CGPA) (Full Time) <b>Project Title:</b> Design, Simulation, Fabrication And Testing of Welding Inverter
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**M.E Project Abstract:** In the proposed system making of hardware of welding machine inverter using IGBT with microcontroller 8051. Design of Converter, inverter and transformer made with required parameter and simulation is done with MATLAB. Then hardware implemented with PCB the tested with aluminium metal sheets.

<b>Bachelor of Engineering</b> 1998 – 2002	<b>Electrical and Electronics Engineering</b> , Maharaja Engineering College, Bharathiyar University, Coimbatore, , 69.2% (Full Time)
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## Professional Experience

Teaching				Industry
Lecturer	Sr.Lecturer / Assistant Professor (Sr.G)	Assistant Professor (Sl.G)	Associate Professor	Senior Electrical Engineer
4 Year	6 Years	3 Years	2 Year 2 Month	3 Year

**Total Experience 18 Years**

## Academic Experience

Sl.No	Name of the organization	Post held	Period	Duration
1	Sri Sairam Engineering College,	Associate Professor in AIDS Dept	09.07.2025 to till date	8 Months
2	Mohamed Sathak AJ College of Engineering Vel Tech Multi Tech	Associate Professor in AIDS Dept	03.07.2023 to 08.07.2025	2Year
3.	Dr.RR Dr.SR Engineering College, Chennai.	Associate Professor	December 2018 to January 2020	1 Year
4.	Sri Ramakrishna Engineering College, Coimbatore.	Lecturer, Sr.Lecturer, Assistant Professor (SL.G)	June 2005 to May 2018	13 Years

## Industrial Experience:

Sl.No	Name of the Industry	Post held	Period	Duration
1.	Sri Lakshmi Industries, Mettur.	Electrical Maintenance Engineer	May 2002 to April 2003	1 Year
2.	Think Aside, Coimbatore.	Trainer	January 2020 to September 2021	1.9 Year

## Publication:

Publication Details	
Journals	<b>SCI Journals</b>
	1. V Arulkumar, M Aruna, D Prakash, M Amanullah, K Somasundaram, Rajendran Thavasimuthu., “A novel cloud-assisted framework for consumer internet of things based on lanner swarm optimization algorithm in smart healthcare systems”. <i>Multimedia Tools and Applications</i> , 1-25. Springer. (2024).
	2. D. Prakash, “Object Detection with Voice Feedback for Blind People Using Computer Vision”, <i>Intelligent Manufacturing and Energy Sustainability</i> pp 661–671 Springer (2023),
	<b>Scopus Indexed Journals</b>
	3. Suguna, M., Pujala Shree Lekha, C. U. Om Kumar, M. Arunmozhi, and D. Prakash. "A Histogram Equalized Median Filtered SIFT–EfficientNet Based on Deep Learning Approach for Lung Disease Detection." <i>Medical Analytics for Clinical and Healthcare Applications</i> (2025): 93-123.
	4. Suguna, M., Shane V. Jose, C. U. Om Kumar, T. Gunasekaran, and D. Prakash. "Efficient Net V2-Based Pneumonia Detection: A Comparative Study with Transfer Learning Models." <i>Medical Analytics for Clinical and Healthcare Applications</i> (2025): 65-92.
	5. ShaikMahaboob Basha, Akilandeswari P., Prakash D, Biruntha S “Cyber Physical Energy Systems for Electric Vehicles”, in cyber physical energy systems, Scrivener publishing, Wiley publications, book chapter, ISBN 978-1-394-17252-8
6. Prakash D “Study of Machine Learning uses In Lithium-Ion Battery Management” <i>Journal of Electrical Systems</i> , 21-01 (2025): 41-57	
7. Prakash D, Mohideen Abdulkader M, Sakthivel D, Manju I, Sreenivasan K S, Manikandan S (2024, March) “Elytrigia Repens Extracts Control Urban Mosquito Vectors With A Larvicidal Potential, Angiotherapy”, <a href="https://doi.org/10.25163/angiotherapy.829593">https://doi.org/10.25163/angiotherapy.829593</a>	

8. Prakash, D., Lavanya, G., & Jeyakumar, G. (2023, July). "Analysis of Shortest Routing and Waiting Time of Electric Vehicle Charging Stations". In <i>2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)</i> (pp. 1-6). IEEE.
9. Prakash, D., & Jeyakumar, G. (2023). "A Review of Problem Variants and Approaches for Electric Vehicle Charging and Location Identification." <i>Research Reports on Computer Science</i> , 65-76.
10. Prakash, D., Amritha, A. (2022, November). "Theoretical analysis of medical healthcare chatbot system". In <i>AIP Conference Proceedings</i> (Vol. 2446, No. 1, p. 180065). AIP Publishing LLC.
11. Prakash, D., & Cynthia, J. (2021). "Priority-Based Task Allocation and Scheduling in WSN Using DMPS". In <i>Advances in Materials Research: Select Proceedings of ICAMR 2019</i> (pp. 1123-1131). Springer Singapore.
12. Naveen Kumar, D., Indhushree, S., & Prakash, D. (2021). "Smart Shopping Bag Using IoT." In <i>Smart Computing Techniques and Applications: Proceedings of the Fourth International Conference on Smart Computing and Informatics, Volume 1</i> (pp. 261-269). Springer Singapore.
13. G. Shobana D. Prakash M. S. J. Syed Ali Fathima (2020, November). "IoT based engineering paradigm for real-time home automation". In <i>AIP Conference Proceedings</i> (Vol. 2270, No. 1, p. 140014). AIP Publishing LLC.
14. M Suguna, D Prakash, G Shobana (2020). "Online Attendre Tracking System". In <i>Sustainable Communication Networks and Application: ICSCSN 2019</i> (pp. 687-693). Springer International Publishing.
15. MG Ramalakshmi, J Cynthia, D Prakash (2018, December). "A survey on cloud and internet of things-based healthcare diagnosis." In <i>2018 4th International conference on computing communication and automation (ICCCA)</i> (pp. 1-4). IEEE.
16. D.Prakash "An Integrated Multiport Dc-Dc Converter for Renewable Energy Applications" (2019). PP: 7023-7028   Volume – 9 Issue-1, October 2019   Retrieval Number: 1374103119/2019 DOI :10.35940/ijeat.A1374.109119
17. Shobana G Suguna. M, Prakash D, "Research on Privacy Preserving Models for Efficient Healthcare Big Data haring in Cloud" International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8 Issue-6S, August 2019
18. Cynthia. J, D. Prakash, "Secure data access privacy preserving using cloud services" (2019) International Journal of Recent Technology and Engineering 7(4), pp. 321-324
19. Priyanga, B., Prakash, D. "Automated generation of question answering system using semantic web" International Journal of Recent Technology and Engineering 7(4), pp. 325-327
20. Ramalakshmi, M. Prakash, D. (2018, December). "A survey on cloud and internet of things-based healthcare diagnosis". In <i>2018 4th International conference on computing communication and automation (ICCCA)</i> (pp. 1-4). IEEE.
21. Prakash, D., Thangavel, D. Y., & Shobana, G. (2018). "Heuristic task workflow scheduling in cloud using spot and on-demand instances". <i>Journal of Computational and Theoretical Nanoscience</i> , 15(8), 2640-2644.
22. Prakash, D., Mahalakshmi, R., & Karpagam, M. (2016). "Power quality enhancement in STATCOM connected distribution systems based on gravitational search algorithm". <i>International Journal on Electrical Engineering and Informatics</i> , 8(4), 907.
23. Arjunan, R., & Prakash, D. (2015). "Space Vector Modulated Three Level Neutral Point Clamped Inverter Using A Single Z Source Network". <i>Space</i> , 3(4).
<b>Other Journals</b>
24. Prakash D, "Examination of Healthcare Diagnosis using IoT" in IJITEE ISSN: 2278-3075, Volume-9 Issue-1, November 2019
25. D Prakash, "Automated Generation of Question Answering System using Semantic Web", International Journal of Recent Technology and Engineering IJRTE ISSN: 2277-3878, Volume-7 Issue-4S, November 2018.
26. D. Prakash,Sasi, Sneha, Vishalakshi, "Portable Power Monitor and Fault Indicator" in International Journal of Creative Research Thoughts, Vol. 6 Issue 2 April 2018.
27. D. Prakash; R. Mahalakshmi; M. Karpagam "SVMPWM based STATCOM for Voltage Transient Stability" Asian Journal of Research in Social Sciences and Humanities Vol. 6, No. 11, November 2016, pp. 492-506.
28. D. Prakash, P.Dineshkumar, Dr.R.Mahalakshmi, " Closed Loop Reactive Power Control by A SPWM STATCOM Based on Modular Multilevel Cascade Converter for Electric Welding Machine", IJERT, Vol.2 – Issue 11 (Nov – 2013)
29. D. Prakash, Arun Kumar V, Dr.R.Mahalakshmi, "Hardware Realization of Single Stage Rectifier", IJERT, Vol.2 – Issue 2 (February – 2013)

**International/National Conferences:**

Publication Details	
<b>International / National Conferences:</b>	1. Presented a paper entitled “A Review of Problem Variants and Approaches for Electric Vehicle Charging and Location Identification” 4th International Conference on Machine Learning, Image Processing, Network Security and Data Sciences MIND-2022 (Virtual mode) 19th and 20th Jan 2023 Maulana Azad National Institute of Technology, Bhopal, India.
	2. Presented a paper titled, “Object Detection with Voice Feedback for Blind People using Computer Vision” in 4 <sup>th</sup> international conference on Intelligent manufacturing and energy sustainability in Malla Reddy college of engineering and technology, Hyderabad, (ICIMES-2022)
	3. Presented a paper titled, “Enhancing Customer Engagement using Beacons Mobile-Healthcare Emergency” in international conference in ICAISC in BIT, Sathy on 15-17 October, 2020
	4. Presented a paper titles in, “ A survey on Cloud and Internet of Things based healthcare diagnosis”, IEEE-International Conference on Computing communication and Automation (ICCCA2018) at Galgotias University, Delhi, Dec-15,2018.
	5. Presented a research paper in title of “Hardware Realization of Monostage AC – DC Converter” on national level conference Recent Advanced in Power Electronics and Industrial Drives conducted by INFO Institute of Engineering, Coimbatore on 15.03.2013.
	6. Presented a research paper in title of “Single Stage High Power Factor AC-DC converter Using Partial Resonant Converter” in national level conference Cutting Edge Technologies in Power Conversion conducted by Bannari Amman Institute of Technology, Sathy on 09.02.2012.
	7. Presented a research paper in title of “Design and Implementation of low Cost Series Active Filter” in national level conference Cutting Edge Technologies in Power Conversion conducted by Bannari Amman Institute of Technology, Sathy on 24.03.2006.
	8. Presented a research paper in title of “Design and Testing of Welding Machine welding Machine Power Supply using embedded software” in National Level Conference CONET-2005, Conducted by Jayam College of Engineering and Technology, Dharumapuri on 04.04.2005.

**Patent:**

Sl.No	Title of article	Patent number	Status
1.	Smart Medical Diagnosis System Using IOT Driven Machine Learning and Big Data Analytics	01/2024	Published.
2.	Integration of IoT & WSN for remote patient monitoring Analyzer	407942-001	Filed

**Consultancy Project:**

Sl.No	Industry Name	Project Title	Amount Received
1.	Pricol Technologies, Coimbatore.	Design And Development Of Three Phase Active Power Factor Correction. (2015-2016)	Rs.65000/
2.	Salzer Equipment, Coimbatore.	Reduction of Chattering Effect for 100A relay (2011-2012)	Rs.38000/

**Professional Body Membership:**

- Life member in ISTE
- Life member in IAENG

**Workshop / Seminars Organized: 8****FDP / Workshops / Seminars attended: (38)**

- No.of workshops/seminars attended : 35
- No of FDPs attended : 10

**Certification Courses:**

- Diploma in Electrical CAD
- Diploma in Computer Programming

**Project Guided:**

- No. of projects guided at UG level: 33
- No. of projects guided at PG level: 7

**Titles of the PG Projects:**

1. Single Stage High Power Factor AC – DC Converter Using Soft Switching Technique.
2. Mono State High Efficient AC – DC Converter Using Soft Switching Techniques.
3. Closed Loop Reactive Power Control by A SPWM STATCOM Based on a Modular Multilevel Cascade Converter.
4. An Integrated multiport DC – DC Converter for Renewable Energy Applications.
5. Mitigation of Harmonics Using Shunt Active Power Filter Caused by Non-Linear Loads
6. Transformer less Photovoltaic Inverter with Leakage Current and Pulsating Power Elimination in Grid Connected System.
7. Low Cost Series Active Filter

**Industrial Training Attended:**

Sl.No	Industry Name	Area	Duration
1.	L & T Limited, Malumichampatti, Coimbatore.	Electrical Panel Board Manufacturing Industry.	3 days
2.	L & T Switch Gear Training Centre, Coonoor.	Switch Gear Testing and Training Centre.	1 day
3.	Pricol Limited, Periyanaikkanpalayam, Coimbatore.	Auto Mobiles Meters Manufacturing Industry.	3 days

**Subjects known:**

In Artificial Intelligence	In Electrical and Electronics Engineering
<ol style="list-style-type: none"><li>1. Fundamentals of Artificial Intelligence</li><li>2. Machine learning</li><li>3. Deep learning</li><li>4. Natural language process</li><li>5. Block chain and its application</li><li>6. Cryptography and network security.</li><li>7. IOT for AI</li></ol>	<p><b>UG</b></p> <ol style="list-style-type: none"><li>1. Power Electronics</li><li>2. Electric drives and control</li><li>3. Circuit theory</li><li>4. Analysis and synthesis of network</li><li>5. Basic Electrical and Electronics engineering</li><li>6. Power quality</li><li>7. Generation and Utilization of electric energy</li><li>8. Measurements and Instrumentation</li><li>9. Bio-medical instrumentation</li><li>10. Power supply system for Mechanical Engg</li></ol> <p><b>PG</b></p> <ol style="list-style-type: none"><li>1. Analysis of power converter</li><li>2. Power converter</li><li>3. Advanced power semiconductor devices</li><li>4. HVDC</li></ol>

**DECLARATION**

I hereby assure that all the above furnished informations are true to my knowledge and conscience

Place: Chennai

Date : 28.02.2026

Yours Sincerely

(PRAKASH D)