

## BIO DATA



Name : Dr. D. Karthik Prabhu

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### 1. Educational Qualification:

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electrical and Electronics Engineering	Sri Subramanya College of Engineering and Technology, Palani.	2006
M.E.	High Voltage Engineering	National Engineering College, Kovilpatti.	2010
Ph.D	High Voltage Engineering	Anna University, Chennai	2023

### 2. Professional/ Industry Experience: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Assistant Professor (Senior Grade)	Ramco Institute of Technology, Rajapalayam	01.07.2017	Till date
2	Assistant Professor	Ramco Institute of Technology, Rajapalayam	02.01.2014	30.06.2017
3	Assistant Professor	P.S.R.Rengasamy College of Engineering for Women, Sivakasi	14.06.2010	26.12.2013
4	Lecturer	S. Veerasamy Chettiar College of Engineering and Technology, Puliangudi	02.07.2007	30.06.2008

Updated as on 16.03.2024

### 3. Research Interest: Partial Discharge Signal Pattern Recognition, Denoising and Liquid Dielectrics

## 4 Publications

### 4.1 JOURNAL PUBLICATIONS

1. P. Gnanaprakash, P. Gowrisankar, P.Gowtham and **D.Karthik Prabhu**, “Eco-Friendly Lawn Mower”, International Journal of Scientific Research in Science and Technology, Volume 9, Issue 1, ISSN:2395-6011, PP. 577-583, April 10, 2021.
2. B. Bharathikalaiselvi, R.S.Sangeeth, G.Selva Pragathy and **D.Karthik Prabhu**, “IoT based Smart Parking System”, International Journal of Scientific Research in Science and Technology, Volume 9, Issue 1, ISSN:2395-6011, PP. 383-388, April 10, 2021
3. **D.Karthik Prabhu**, R.V.Maheswari and B.Vigneshwaran, “Deep Learning based Power Transformer Monitoring using Partial discharge Patterns”, Intelligent Automation & Soft Computing, Volume:34, Issue:3, PP-1441-1454, Doi:10.32604/iasc.2022.024128.
4. Dr.S.Deepa, S.P.Alexprabu, **D.Karthik Prabhu**, Mallikarjun G Hudedmani, Govindarajulu Eedara, “Development of an embedded safety system for an electric vehicle”, Journal of Pharmaceutical Negative Results,| Volume 13,| Special Issue 9, 2022.
5. Thangam E, Anandhakumar C , **Karthik Prabhu D** , Meenakshi Sundaravel S , Vigneshwar A S, “Application Of An Automatic Three-Phase Power Supply Phase Selector In The Medical Ventilator”, Journal of Pharmaceutical Negative Results,| Volume 13,| Special Issue 7, 2022. (30.12.2022) (Scopus) DOI: 10.47750/pnr.2022.13.S07.600.
6. D. Sabapathi, Yogesh Shivaji Pawar, Sumagna Patnaik, E.Sivanantham, **D. Karthik Prabhu**, N.B.Prakash, “Energy Load forecasting with Demand Side Management in Industrial Sectors using Neuro-Fuzzy Controller and Deep Learning”, Proceedings of the Third International Conference on Artificial Intelligence and Smart Energy (ICAIS 2023) IEEE Xplore Part Number: CFP23OAB-ART; ISBN: 978-1-6654-6216-7. DOI: 10.1109/ICAIS56108.2023.10073714.

### 4.2 CONFERENCE PUBLICATIONS

1. **D.Karthik Prabhu** and R. Karthik, “Analysis of Dissolved Gases in Power Transformer using Expert System”, National Conference on Power and Energy Systems, (NPES’10) during 19<sup>th</sup>-20<sup>th</sup> March 2010 at Kalasalingam University, Krishnankoil.
2. **D. Karthik Prabhu** and P. Ram Prakash, “Performance Evaluation of Nine-Level Modified cascaded Inverter with different PWM Techniques”, National Conference on Innovations in Engineering, Science and Technology, (NCIEST – 2015) during 06<sup>th</sup> – 07<sup>th</sup> March 2015 at Ramco Institute of Technology, Rajapalayam.

3. **D. Karthik Prabhu**, “Intelligent Traffic Controller using Arduino”, National Conference on Innovations in Engineering, Science and Technology, (NCIEST – 2017) during 24<sup>th</sup> – 25<sup>th</sup> March 2017 at Ramco Institute of Technology, Rajapalayam.
4. **D.Karthik Prabhu**, G. Hari Vignesh, S. Marieswaran, and B. Sankaralingam “Detection, Locating and monitoring of fault in a distribution line using LabVIEW”, International conference on Trends in technology and Engineering at Arjun College of Technology during 07.04.2018.
5. **D. Karthik Prabhu** and Dr. R.V. Maheswari, “Recognition of Partial Discharge Patterns using Pearson’s Correlation Features based Back Propagation Neural Network”, International Conference on Science, Technology, Engineering and Management, (ICSTEM 2018) during 23<sup>th</sup> – 24<sup>th</sup> March 2018 at Kalaignar Karunanidhi Institute of Technology, Coimbatore.
6. **D.Karthik Prabhu**, R. Ajeeth, A. Sudharsanan , R.K. Vignesh and K. Vijayakumarraja “Smart solar street light”, National Conference on Recent Trends in Electrical, Electronics, Communication & computing Technologies during 15.03.2019 at P.S.R.Rengasamy College of Engineering for Women, Sivakasi.
7. **D. Karthik Prabhu**, "Digital Notice Board", International Web Conference on Smart Engineering Technologies, Ramco Institute of Technology, 26.07.20 to 27.07.20
8. P. Gnana Prakash, P. Goutham, P. Gowrisankar, **D. Karthik Prabhu**, 'Eco-Friendly Lawn Mower' in the ICAMCCT-2021 held on 10th April, 2021, Organized By Annai Vailankanni College of Engineering, AVK Nagar, Pothaiyadi Salai, Azhagappapuram. P. O, K. K. District, Tamil Nadu, India
9. B. Bharathikalaiselvi, R. S. Sangeetha, G. Selva Pragathy, **D.Karthik Prabhu**, 'IoT Based Smart Parking System' in the ICAMCCT-2021 held on 10th April, 2021, Organized By Annai Vailankanni College of Engineering, AVK Nagar, Pothaiyadi Salai, Azhagappapuram. P. O, K. K. District, Tamil Nadu, India
10. A.Arunkumar, V.Anantharaj, M.Vishnu, **D.Karthik Prabhu**, “IoT based E-Vehicle battery Monitoring and cooling system”, International Conference on emerging electrical system and control - ICEESC2024, Sethu institute of technology, kariappatti, during 26.04.2023.

#### 4.3 Book/Book chapter publications

1. **D. Karthik Prabhu**, "A State of Art Review on Advancements in Vehicular Embedded System Technologies”, Handbook of Trends in Engineering Technology and Research, AGPH Books, 2022. ISBN: 978-93-94339-64-4.

#### 5. Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
NIL					

#### 6. Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status
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Updated as on \_16.03.2024

**7. Short term Courses / Seminars /FDP/Workshop/Conference Attended:**

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	National Seminar on “Smart Grid Technology and Applications”	PSG College of Technology	10.10.14	11.10.14
2.	Five days’ workshop on “ARDUINO”	Ramco Institute of Technology	09.12.14	13.12.14
3.	Introspection of teaching learning Process	Ramco Institute of Technology	23.12.14	30.12.14
4.	Three days’ Workshop on “Implementation of soft computing Techniques - ISCT’15”	National Engineering College	05.08.15	07.08.15
5.	A two day workshop on “Hands on Training on MATLAB Toolboxes – HTMT’16”	National Engineering College	03.03.16	04.03.16
6.	FDTP on EE6005 Power Quality	PSNA College of Engineering and Technology	13.06.16	19.06.16
7.	Short Term Course on Recent Advances in UHV Transmission and Distribution	Centre for Continuing Education, IISc, Bangalore.	19.12.16	23.12.16
8.	AICTE Sponsored Two week FDP on “Human Values and Professional Ethics”	Ramco Institute of Technology	30.10.17	12.11.17
9.	Five days FDTP on “Signals and Systems”	Ramco Institute of Technology	13.06.18	18.06.18
10.	A two day workshop on “Writing Research papers, Citation Analysis, Plagiarism, Getting Patent & Copyright	Ramco Institute of Technology	29.06.18	30.06.18
11.	Faculty development Programme on “Teaching and Learning Process”	IIT, Madras	03.12.18	05.12.18
12.	Two day Seminar on “Intelligent Electric Power Grid”	Ramco Institute of Technology	28.12.18	29.12.18
13.	FDTP on EE8301 Electrical Machines – I	K.L.N. College of Engineering	20.05.19	25.05.19

14.	National Workshop on Application of Advanced Tools for Smart Power System	Sri Sivasubramaniya Nadar College of Engineering	08.08.19	09.08.19
15.	Five days FDP on Technological Advancement in Power System Control, Power Controllers, Drives and E-Vehicles	Dr.N.G.P. Institute of Technology, Coimbatore.	27.04.20	01.05.20
16.	Faculty Development Program on Emerging Trends in Electric Vehicle, Lighting and Automation	Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College	26.05.20	30.05.20
17.	Two Days Workshop on “Fuzzy Logic and Neural Networks Approaches for Engineering Solutions”	Journal of Advanced Engineering Research	01.05.20	02.05.20
18.	Online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education”	AICTE	10.08.20	14.08.20
19.	FDP on Electric Vehicles	NIT, Mizoram	10.11.20	14.11.20
20.	FDP on Research Avenues in alternate energy systems	GCT, Covai	23.11.20	27.11.20
21.	Five Days Short Term Training Program (STTP) on Recent Trends and Challenges in Smart Grid Technology	Sri Ramakrishna Engg. College, Coimbatore	17.08.20	21.08.20
22.	FDP on Sensors Technology	G.Pulla Reddy Engineering College Kurnool (ATAL) Academy	07.12.21	11.12.21
23.	Two day National level (online) Workshop on Role of NAAC in Enhancing Quality in Higher	National Assessment and Accreditation Council (NAAC)	16.12.22	17.12.22
24.	FDP on Design of Electric Vehicles using MATLAB Simulink	Ramco Institute of Technology	24.07.23	26.07.23
25.	Training Programme on LPB01 – Reverse Engineering	Ramco Institute of Technology	08.09.23	09.09.23
26.	FDP on Energy Storage	Amritha Vishwa Vidyapeetham, CBE	18.12.23	23.12.23

**8. Short term Courses / Seminars /FDP/Workshop/Conference organized:**

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	A Two-Day Workshop on “PCB Design”	Ramco Institute of Technology	24.08.14	25.08.14
2.	Seminar on Energy Conservation in Home and Small Office	Ramco Institute of Technology	25.03.17	-
3.	Five days FDTP on “Signals and Systems”	Ramco Institute of Technology	13.06.18	18.06.18
4.	Hands on training on “Electrical Machine Design, Winding, Assembling and Dismantling”	Ramco Institute of Technology	20.08.18	23.08.18
5.				
6.	Interdisciplinary Webinar series – I	Ramco Institute of Technology	01.06.20	05.06.20
7.	Interdisciplinary Webinar series – II	Ramco Institute of Technology	08.06.20	12.06.20
8.	Webinar on Energy Conservation practice in Industry premises	Ramco Institute of Technology	04.10.20	-
9.	Webinar on Innovative Ideas for Projects and Guidelines for MSME project proposal	Ramco Institute of Technology	11.10.20	-
10.	Training on Empower Employment	Ramco Institute of Technology	22.12.20	-
11.	Webinar on How to crack TCS Ninja	Ramco Institute of Technology	08.08.21	-
12.	One day Workshop on "TinyML for Scientific use cases"	Ramco Institute of Technology	25.07.22	
13.	Extramural Lecture Series – INT 1 on the topic "Semiconductor Testing an Overview"	Ramco Institute of Technology	11.02.23	-
14.	One day Workshop on Mastering Technical Writing: From Basics to Ethical AI and illustrations	Ramco Institute of Technology	19.02.24	

## 9. Online Courses

Sl.No	Course Title	University	Date
1	6.002.1x: Circuits and Electronics 1: Basic Circuit Analysis	Massachusetts Institute of Technology, USA	09.05.2016
2	Energy X: Sustainable Energy: Design a Renewable Future	Delft University, Netherland	10.11.2016
3	ET3034X: Solar Energy	Delft University, Netherland	06.06.2017
4	Calculus 1A: Differentiation	Massachusetts Institute of Technology, USA	10.09.2017
5	Calculus 1B: Integration	Massachusetts Institute of Technology, USA	09.03.2018
6	18.03Fx, Differential Equations: Fourier Series and Partial Differential Equations	Massachusetts Institute of Technology, USA	21.12.2018
7	18.01.3x Calculus 1C: Coordinate Systems & Infinite Series	Massachusetts Institute of Technology, USA	12.05.2019
8	6.002.2x: Circuits and Electronics 2: Amplification, Speed, and Delay	Massachusetts Institute of Technology, USA	31.05.2019
9	Introduction to Differential Equations	Massachusetts Institute of Technology, USA	20.12.2019
10	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	12.06.2020
11	Electric Power System	The State University of New York	17.06.2020
12	Programming for Everybody (Getting Started with Python)	University of Michigan	25.06.2020
13	Electric Cars: Introduction	Delft University, Netherland	23.07.2020
14	Operations Research: an Active Learning Approach	The Hong Kong Polytechnic University	30.08.2020
15	Transfer Functions and the Laplace Transform	Massachusetts Institute of Technology, USA	01.09.2020
16	Introduction to Programming with MATLAB	Vanderbilt University	28.09.2021
17	Mathematics for Machine Learning: Linear Algebra, Imperial College London	Imperial College, London	25.02.2022

18	Wind Energy	DTU Technical University of Denmark	29.03.2023
19	Battery Comparison, Manufacturing, and Packaging	Arizona State University	28.12.2023

## 10. Patents filed/awarded

- Mr.P.Ramkumar, Mr.N.Siva Suriya, Mr.R.Ajith Kumar, **Mr.D.Kathik Prabhu**, Mr.A.Guna, Dr.K.Karthikeyan Filed patent under Indian grant titled “ Eco-Friendly Mow-bot ” Application Number: 202141006608. Published on 17.02.2021.
- Mr.A.Guna, **Mr.D.Karthik Prabhu**, Dr.S.Kannan Filed patent under Indian grant titled “State of charge based automatic charging controller with temperature monitoring system for Electric Vehicle batteries”, Application Number: 202241043872, Published on 01.08.2022.

## 11. Copyright

- Mr.E.Thangam, Dr.K.Karthikeyan, Mr.D.Kathik Prabhu, copyright grant titled “INDUSTRIAL AUTOMATION USING PLC : A GUIDEBOOK FOR BEGINNERS ” Register Number: L-121093/2023 dated: 28.02.2023.

## 12. Membership in Professional societies:

- Life time member in ISTE (LM72132)
- Associate member in IE(I) AM1917784

## 13. Industrial Training

1. Three days industrial visit to the company Sunbeam Generators Pvt. Ltd., Pondicherry from 03.02.2022 to 05.02.2022.
2. Three days Academia – Industry Interaction at The Ramco Cements Limited, Alathiyur from 25.06.2018 to 27.06.2018.
3. Three days industrial training at Electrical department, Rajapalayam Mills Limited, Rajapalayam from 10.05.2017 to 12.05.2017.

## 14. Awards, Recognition & Achievements

1. Received a certificate and cash prize for producing 100% results in Basic Electrical and Electronics Engineering for Civil Department in the Academic year 2013-14.
2. Received a certificate and cash prize for producing 100% results in Basic Electrical and Electronics Engineering for Mech -A, Department in the Academic year 2014-15.
3. Received a certificate and cash prize for producing 100% results in Basic Electrical and Electronics Engineering for Mech -A, Department in the Academic year 2015-16.
4. Received a certificate and cash prize for producing 100% results in Power System Transients, for EEE Department in the Academic year 2015-16.

5. Received a certificate and cash prize for producing 100% results in High Voltage Engineering for EEE, Department in the Academic year 2016-17.
6. Received a certificate and cash prize for producing 100% results in Power Quality, for EEE Department in the Academic year 2016-17.
7. Received a certificate and cash prize for producing 100% results in Power System Transients, for EEE Department in the Academic year 2016-17.
8. Received **Best Class Advisor Award** for the academic year 2016-2017 during 4th Annual Day Celebration.
9. Received **Best Class Advisor Award** for the Academic year 2017-2018 during 5th Annual Day Celebration.
10. Received **Best Class Advisor Award** for the Academic year 2018-2019 during 6th Annual Day Celebration.

### **15. Guest Lectures Delivered**

1. Delivered a lecture on “Nature of Breakdown mechanism in Solid, Liquid and Gaseous Dielectrics ” in three days FDP on (High Voltage Engineering” organized by Department of Electrical and Electronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar during 28.06.2016 to 30.06.2016

### **Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)**

1. Department Advisory Committee Coordinator for the Department of Electrical and Electronics Engineering.
2. Program Assessment & Quality Improvement Committee member for the Department of Electrical and Electronics Engineering 2018 to till date
3. Department Technical Association Faculty Advisor for 2014 to 2019
4. Department NBA Criteria 2 and Criteria 10 Coordinator from 2017 to 2021
5. Department NBA Criteria 5 Coordinator from 2021 to till date
6. Department NAAC Criteria 3 Coordinator from 2017 to till date
7. Department Research and Development Cell Coordinator from 2018 to till date
8. Department Entrepreneur Development cell coordinator from 2017 to 2021
9. College Boys Hostel Assistant Warden from 2018 to 2021
10. College Admission Coordinator from 2022 to till date
11. College level IITM PALS innoWAH Project Competition Coordinator from 2022 to till date.