

BIO DATA



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Google Scholar link: https://scholar.google.com/citations?user=_jDZF48AAAAJ&hl=en

1. Educational Qualification

S.No	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electrical and Electronics Engineering	Kamaraj College of Engineering and Technology, Virudhunagar	2006
M.E.	Power Electronics and Drives	Mepco Schlenk Engineering College, Sivakasi	2008
Ph.D.	Power Electronics	Anna University, Chennai	Pursuing

2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/Organization	Period	
			From	To
1.	Assistant Professor	Ramco Institute of Technology, Rajapalayam.	10.05.2024	Till date
2.	Assistant Professor	Ramco Institute of Technology, Rajapalayam.	07.07.2014	30.04.2016
3.	Senior Software Engineer	Larsen and Toubro Limited, Integrated Engineering Services, Mysore	04.08.2008	30.09.2011

Updated as on 13.05.2024

3. Research Interest: Power Electronics, Renewable Energy, Electric Vehicles

4. Publications

4.1 JOURNAL PUBLICATIONS

1. Narthana Sivaperumal, Gnanavadivel Jothimani, “**An energy efficient unidirectional on-board battery charger for power factor correction in electric vehicles**”, Electrical Engineering, 2024. DOI: <https://doi.org/10.1007/s00202-023-02208-4>.
2. Narthana S, Gnanavadivel J, “**Power Quality Analysis of Interleaved Cuk Configuration-Based Interval Type-2 Fuzzy Logic Controller for Battery Charging in Electric Vehicles**”, Arabian Journal for Science and Engineering, Vol. 49, no. 5, pp. 6259 – 6273, May 2024. DOI: <https://doi.org/10.1007/s13369-023-08189-7>.
3. Narthana Sivaperumal, Gnanavadivel Jothimani, “**A single-stage bridgeless isolated positive output Cuk configuration-based unidirectional onboard battery charger**”, International Journal of Circuit Theory and Applications, Vol. 52, no. 1, pp. 396-419, Jan 2024. DOI: <https://doi.org/10.1002/cta.3757>.
4. S. Narthana, P. Muthu Thiruvengadam & J. Gnanavadivel, “**Adaptive neuro-fuzzy approach for maximum power point tracking with high gain converter for photo voltaic applications**”, International Journal of Advanced Technology and Engineering Exploration, Vol: 9(93), pp. 1168 – 1182, August 2022. DOI: <http://dx.doi.org/10.19101/IJATEE.2021.875193>.
5. J.Gnanavadivel, M.Shunmathi, P.Muthu Thiruvengadam, S.Narthana, “**Analysis of DC-DC Converter with High Step -up Gain for Alternative Energy Sources**”, International Journal of Engineering Trends and Technology, Vol. 69, no. 4, pp. 162 – 168, 2021. DOI: <https://doi.org/10.14445/22315381/IJETT-V69I4P223>.

4.2 CONFERENCE PUBLICATIONS

1. Narthana S, presented a paper titled “**Novel Harmonic Elimination Technique using Fuzzy Logic Controller in Sinusoidal Pulse Width Modulated Cascaded Multilevel Inverter**”, in the National Level Conference on Emerging Technologies in Electrical & Electronics Systems, Noorul Islam College of Engineering, Kumaracoil, Thuckalay during March 08, 2008.
2. Narthana S, presented a paper titled “**Novel Harmonic Elimination Method in Cascaded Multilevel Inverter using Fuzzy Logic**”, in the Second National Conference on Power Electronics and Power Systems – MEPPCON’08, Mepco Schlenk Engineering College, Sivakasi during March 14, 2008.
3. S. Narthana, presented a paper titled “**Design of High Gain DC-DC Converter with Active Switched Capacitor for Photo Voltaic Systems**”, in the International Virtual Conference on Power, Information and Communication (ICPIC), organized by PSN College of Engineering and Technology, Tirunelveli during May 12, 2021.

4.3 Book/Book chapter publications

Nil

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
Nil				

7. Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

S.No	Title of the event	Organized by	Date	
			From	To
1	Soft Computing Techniques for Applications in Electrical Sciences	PSG College of Technology, Coimbatore	07.11.2014	08.11.2014
2	Short Term Course on NI LabVIEW Core 1 & Core 2	Ramco Institute of Technology, Rajapalayam	15.06.2015	19.06.2015
3	Challenges in Grid Connected Renewable Energy Sources	Mepco Schlenk Engineering College, Sivakasi	25.06.2015	26.06.2015
4	Embedded Systems and Its Applications	Ramco Institute of Technology, Rajapalayam	21.12.2015	22.12.2015
5	Research Opportunities, Challenges in Power Electronics for EV and Its Impact on Smart Grid	National Institute of Technology, Tiruchirappalli	14.12.2020	20.12.2020
6	NaMPET Sponsored “Emerging Technological Challenges in Electric Vehicle (EV) System”	Thiagarajar College of Engineering, Madurai	21.12.2020	23.12.2020
7	Modelling of Solar & Wind Energy System with Design Techniques of Converter and Inverter Topologies	Karpagam Academy of Higher Education, Coimbatore	12.03.2021	-
8	AICTE - ISTE Sponsored Induction/Refresher programme “Solar PV System Design Using IOT” (Phase - II)	Sri Venkateswara College of Engineering, Chennai	31.03.2021	08.04.2021
9	SERB Core Research Grant Sponsored “Challenges and Opportunities in Future Electrical Vehicles Charging”	SRM Institute of Science and Technology, Kattankulathur	12.04.2021	14.04.2021

Updated as on 13.05.2024

10	AICTE - ISTE Sponsored Induction/Refresher programme “Electric Vehicle Evolution - Impact on Power Grid”	Sri Venkateswara College of Engineering, Chennai	19.04.2021	24.04.2021
11	Application of AI & Machine Learning in Electric Vehicle Technology	Mepco Schlenk Engineering College, Sivakasi	10.12.2021	11.12.2021
12	Design Optimization of High Frequency Transformers and Inductors	Sri Sivasubramaniya Nadar College of Engineering, Chennai	27.12.2021	-
13	Integration of Renewable Energy & EV to Microgrid: Prospects and Challenges	National Institute of Technology, Tiruchirappalli	21.02.2022	25.02.2022
14	Research Aspects in Power Electronic Converters for Microgrid System	Mepco Schlenk Engineering College, Sivakasi	26.05.2022	27.05.2022
15	Two-Week Fulbright-Nehru Specialist Programme on “Research and Publication Ethics”	Mepco Schlenk Engineering College, Sivakasi	25.07.2022	06.08.2022
16	‘Simulation of Power Converters using Matlab – Simulink’	Indian Society for Technical Education (ISTE) – Faculty Chapter at SSN College of Engineering, Chennai	01.08.2022	02.08.2022
17	Thesis Writing and Patent - Filing	Centre for Research, Anna University, Chennai	14.09.2022	-
18	Artificial Neural Network Based Switching Loss Estimation for DC-DC Converters	Shrimitha Energy Solutions Private Limited, SSN College of Engineering, Chennai	02.11.2022	-
19	3 Days Capacity Building Program on “Assembling and Servicing of Electric Vehicles”	ACIC, Mepco Schlenk Engineering College, Sivakasi	15.11.2022	17.11.2022
20	Maintenance and Troubleshooting of Electrical Appliances	ACIC, Mepco Schlenk Engineering College, Sivakasi	18.01.2023	20.01.2023
21	IP Awareness Training Program under National Intellectual Property Awareness Mission	Intellectual Property Office and MoE’s Innovation Cell, India	09.02.2023	-
22	Advanced Power Electronics and Storage Systems for Smart Grid	Mepco Schlenk Engineering College, Sivakasi	19.05.2023	20.05.2023
23	Optimization Methodology in Power Electronics	IEEE Power Electronics Society Madras Chapter	22.06.2023	-

24	Understanding the Basics of Temperature and Pressure Calibration	Mepco Schlenk Engineering College, Sivakasi	16.11.2023	-
25	Sustainable Energy and Mobility: Prospects and Research Challenges in Power Electronics	PSG Centre For Non-Formal and Continuing Education, PSG College of Technology, Coimbatore	08.12.2023	09.12.2023

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

Nil

9. Online Courses

S.NO	COURSE TITLE	UNIVERSITY	DATE
1.	Design of Power Electronic Converters	Indian Institute of Technology, Guwahati	19.02.2024 to 13.04.2024

10. Patents filed/awarded: -

SL. NO.	TITLE	APPLICATION NO.	FILED DATE	STATUS	INVENTOR(S)
1.	A Compact Transformerless Interleaved Buck-Boost LED Driver	202341034005 A	15.05.2023	Published	Dr.J.Gnanavadivel Ms.P.Muthu Thiruvengadam Mrs.S.Narthana Dr.S.Muralidharan

11. Copyright filed/awarded:

Nil

11. Membership in Professional societies: Life member ISTE

12. Awards, Recognition& Achievements: -

Nil

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