

BIO DATA



Name : Mrs. S. Jeyanthi
Designation : Assistant Professor (Senior Grade)
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Google Scholar link : <https://scholar.google.co.in/citations?hl=en&user=CPEIAs8AAAAJ>

1. Educational Qualification

S.No	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electrical and Electronics Engineering	K.L.N. College of Engineering, Pottapalayam	2012
M.E.	Power Electronics and Drives	Mepco Schlenk Engineering College, Sivakasi	2014
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 (Senior Grade)	Ramco Institute of Technology, Rajapalayam.	01.01.2023	Till date
2.	Assistant Professor	Ramco Institute of Technology, Rajapalayam.	01.06.2017	31.12.2022
3.	Assistant Professor	AAA College of Engineering and Technology, Sivakasi.	12.06.2014	12.06.2015

Updated as on 18.03.2024

3. Research Interest: Power Electronics, Renewable Energy, Electrical Drives

4. Publications

4.1 JOURNAL PUBLICATIONS

1. Jeyanthi Sivasubramanian & Manikandan Bairavan Veerayan (2024), “**ANN and ANFIS Based Control Approaches for Enhanced Performance of Solar PV Driven Water Pumping Systems Employing Quasi Z-Source Converter**”, Journal of Electrical Engineering & Technology. DOI: <https://doi.org/10.1007/s42835-023-01778-4>.
2. Jeyanthi Sivasubramanian & Manikandan Bairavan Veerayan (2024), “**Performance Analysis of a Quasi-Z-Source Converter for Solar Photo Voltaic System Powered Water Pumping System**”, Electric Power Components and Systems, 52:1, 1-19, DOI: 10.1080/15325008.2023.2239218.
3. Jeyanthi Sivasubramanian, Manikandan Bairavan Veerayan; “**Performance analysis of solar PV system fed boost converter using different MPPT techniques**”. AIP Conf. Proc. 20 September 2023; 2831 (1): 040016. <https://doi.org/10.1063/5.0162965>
4. Jeyanthi S, Arun Kumar A, Muthu Rani M M , Rohini M I , Divya Jeyashree V “**IoT Based Food Waste Monitoring and Controlling System**”, Journal of Pharmaceutical Negative Results. Issue No.3, Volume.14 (Feb. 2023), 586–591. DOI:<https://doi.org/10.47750/pnr.2023.14.03.073>.
5. Daniel Gold Sam C, Mohamedabdulazeez M, Mithinesh S, Jeyanthi S, “**Air and Water Quality Monitoring System**”, International Journal of Scientific Research in Science and Technology, Volume 9, Issue 1, ISSN: 2395-6011, PP. 973-976, April 10, 2021.
6. R. Pranav Kaarthick, P. Dhamodaran, S. Ramanan, B. Bharathi, S.Jeyanthi, “**IB-SAEMACS: IoT Based Smart Autonomous Environment Monitoring and Control System**”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 8, Issue 2, February 2019.
7. S. Jeyanthi, R. Dineshkumar, R. Vignesh, K. Ashokkumar, “**Performance Analysis of a Reduced Switch Z Source Inverter**”, SSRG International Journal of Electrical and Electronics Engineering, (Special issue ICRTECITA), Vol. 1, pp 67-70, April 2018.
8. A. Marikkannan, B. V. Manikandan, S. Jeyanthi, “**A ZVS DC–DC Converter with High Voltage Gain for Fuel Cell Systems**”, Applied Mechanics and Material Journal, Vol. 573 (2014) pp 83-88, April 2014, Trans Tech Publications, Switzerland.

4.2 CONFERENCE PUBLICATIONS

1. Jeyanthi S, Seenu RA, Hariharasudhan M, Rishi Raghul, Arun Kumar A, presented a paper titled “**Digital Multimeter**”, in the International Conference on Smart Engineering for Renewable Energy Technologies (ICSERET 2023), Ramco Institute of Technology, during March 25, 2023.
2. Arun Kumar A, Muthu Ramya R, Jeyapriyadharshini M, Jeyanthi S, presented a paper titled “**Warning Sign Cataloging Using Neural Network**”, in the International Conference on Smart Engineering for Renewable Energy Technologies (ICSERET 2023), Ramco Institute of Technology, during March 25, 2023.

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3. S. Jeyanthi, B.V. Manikandan presented a paper titled “**Performance Analysis of Solar PV System Fed Boost Converter using Different MPPT Techniques**”, in the International Conference on Smart Technologies and Applications (ICSTA 2022) organized by Ramco Institute of Technology, Rajapalayam during March 11 - 12, 2022.
4. Arun Kumar A , M. M. Muthu Rani, M.I. Rohini, V. Divya Jeyashree, S. Jeyanthi presented a paper titled “**Smart Garbage Detection System**”, in the International Conference on Smart Technologies and Applications (ICSTA 2022) organized by Ramco Institute of Technology, Rajapalayam during March 11 - 12, 2022.
5. R. Maha Guru Backiyam, T. Munieshwari, P. Sangeetha, A. Arun Kumar, S. Jeyanthi, “**Improvement of efficiency of solar cells using nano coating**” in the National Web Conference on Challenges and Innovation in Engineering & Technology 2021 held during March 19-20, 2021.
6. A.Keerthana, C.U.Pooja, S.Jeyanthi, “**IoT based smart garbage detection system**”, National Conference on Computer, Electrical and Electronics Engineering (TECHTASTIC 2K20), P.S.R. Rengasamy College of Engineering for Women, Sivakasi held on March 06, 2020.
7. A. Gaayatri, R. Jananishri, K. Karthika, M. Muthulakshmi, S. Jeyanthi, “**GSM based industrial security system using Arduino**”, National Conference on Innovative research in Engineering, Science & technology (NCIREST-19), P.S.R. Rengasamy College of Engineering for Women, Sivakasi held on March 07, 2019.
8. K. Balamurugan, S. Madhan Kumar, S. Asfar, S. Jeyanthi, “**Grid based automatic load shedding through wireless using microcontroller**”, National Conference on VLSI, Optical communication, Image Processing, Communication and Embedded Systems – VOICE’18, Kalasalingam University, Krishnankoil held on March 12-13, 2018.
9. A. Marikkannan, B.V.Manikandan, S. Jeyanthi, “**A Digital Current Controlled Soft-Switching DC–DC Converter with High Voltage Gain for Renewable Energy Sources**”, International Conference on Circuits, Power and Computing Technologies- ICCPCT ’14, Noorul Islam University, Kumaracoil held on March 20-21, 2014.
10. S. Jeyanthi, B.V.Manikandan A. Marikkannan, “**Design and Simulation of a Soft Switching Scheme for a Front End Dc-Dc Converter with High Voltage Gain and High Efficiency**”, Fourth National Conference on Power Electronics and Power Systems-MEPPCON ’14, Mepco Schlenk Engineering College, Sivakasi held on March 12, 2014.
11. A. Marikkannan, B.V.Manikandan, S. Jeyanthi, “**A Soft-Switching Front End DC–DC Converter with High Voltage Gain for Renewable Energy Sources**”, International Conference on Renewable Energy Utilization-ICREU ’14, Coimbatore Institute of Technology, Coimbatore held on January 8-10, 2014.
12. S. Jeyanthi, B.V.Manikandan A. Marikkannan, “**Simulation and Analysis of ZVS DC-DC Converter with Voltage Multiplier Circuit for High Voltage Gain**”, International Conference on Power and Energy Systems-ICPES’13, cited in IEEE Explorer, Velammal College of Engineering and Technology, Madurai held on December 12, 2013.

13. S. Jeyanthi, S. Ramadevi, S. Indiramai, A.Marimuthu, “**Optimal Reactive Power Planning Using Particle Swarm Optimization**”, 3rd National Conference on Emerging Trends in Power Systems- EPTS’ 2012, K.L.N. College of Engineering, Pottapalayam held on April 11, 2012.

5. Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	LED Powered Endo Illuminator for Vitreous Surgery	Ministry of Micro, Small & Medium Enterprises (MSME)	1 year	Rs. 14,50,000/-	On-going

6. Ph.D. guidance

Sl. No	Scholar Name	University	Topic	Status
Nil				

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

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	PDP on “Question Paper Authoring & Student Evaluation”	National Institute of Technical Teachers Training & Research (NITTTR), Chennai	26.12.2023	30.12.2023
2.	FDP on “Design of Photovoltaic Systems”	Skillsomics	13.02.2023	17.02.2023
3.	Train the Trainer “Powering IoT using Arduino / Raspberry Pi”	SkillsDA	19.09.2022	23.09.2022
4.	Workshop on “TinyML for scientific use cases”	Ramco Institute of Technology, Rajapalayam	25.07.2022	-
5.	Five Days [Online] STC on “Power Electronics Converters’ Applications in Microgrid and Vehicular Technology”	National Institute of Technology Rourkela	20.07.2022	24.07.2022
6.	Power Electronic Converters and Control for Renewable Power and Microgrid Systems	IIT, Goa	14.12.2021	18.12.2021

7.	Faculty Development Program on “Circuit Design using AutoCAD Electrical (Online Live FDP)”	ICT Academy	25.01.2021	30.01.2021
8.	Online workshop on “Universal Human Value”	AICTE	06.12.2021	10.12.2021
9.	AICTE Training and Learning (ATAL) Academy Online FDP on “Power Electronics application in Machine Drives and Power system”	NIT, Mizoram	01.12.2020	05.12.2020
10.	Faculty Development Program By Teaching Learning Centre	IITM	15.12.2020	17.12.2020
11.	One-week ATAL FDP on “Internet of Things (IoT)”	Indian Institute of Technology Goa (IIT Goa)	14.11.2020	18.11.2020
12.	Online Certified Course on “PVSyst”	kWatt Solutions Private Limited	28.10.2020	29.10.2020
13.	One-week FDP on “Recent Advances in Power Electronics Applications with MATLAB Simulations”	NIT Patna	25.05.2020	30.05.2020
14.	Two days online workshop on “Patent drafting and processing with importance of trademark and copyright”	Journal of Advanced Engineering Research	08.05.2020	09.05.2020
15.	Three days online workshop on “Multi Criteria Decision Making Workshop”	REST Society for Research International (RSRI), Krishnagiri	23.04.2020	25.04.2020
16.	Workshop on “Issues and Challenges in On-Grid Solar PV System”	Mepco Schlenk Engineering College, Sivakasi	21.12.2018	22.12.2018
17.	FDP on “Electromagnetic Fields”	Ramco Institute of Technology, Rajapalayam	03.12.2018	15.12.2018
18.	Training Programme on “Art of Counseling”	Ramco Institute of Technology, Rajapalayam	19.06.2018	21.06.2018
19.	FDP on “Power Converters and its Applications”	Kamaraj College of Engineering and Technology, Virudhunagar.	13.06.2018	15.06.2018

20.	FDP on “Recent Developments in Modelling, Design and Control of Power Converters and Drives”	Mepco Schlenk Engineering College, Sivakasi	13.11.2017	25.11.2017
21.	Workshop on “Internet of Things with Arduino”	Ramco Institute of Technology, Rajapalayam	13.08.2017	-
22.	Programme on “FEEL Teacher” conducted by CLHRD	AAA College of Engineering and Technology, Sivakasi	07.11.2014	09.11.2014
23.	FDP on “Electronics Circuits – I”	P.S.R Engineering College, Sivakasi	23.06.2014	28.06.2014
24.	Workshop on “Microcontroller Based Embedded System Design”	Mepco Schlenk Engineering College, Sivakasi	16.12.2013	18.12.2013
25.	Workshop on “Skill up Gradation”	Mepco Schlenk Engineering College, Sivakasi	09.11.2012	-
26.	Seminar on “Recent Trends in Renewable Energy Sources and Its Applications”	K.L.N. College of Engineering, Pottapalayam	30.03.2012	-

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

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Five Days Value Added Course on “Internet of Things”	Ramco Institute of Technology, Rajapalayam	19.06.2023	23.06.2023
2.	Workshop on “Tinkercad for Tomorrow’s Technologists”	Ramco Institute of Technology, Rajapalayam	27.04.2023	-
3.	Guest Lecture on “Impact of Power Quality Issues in Industrial Applications”	Ramco Institute of Technology, Rajapalayam	22.04.2023	-
4.	Two days Short term training programme on “Fundamentals of Electronics in Semiconductor Industries”	Ramco Institute of Technology, Rajapalayam	30.01.2023	31.01.2023
5.	Value Added Course on “Embedded Controllers and its Applications in Electrical Engineering”	Ramco Institute of Technology, Rajapalayam	10.08.2022	13.08.2022

6.	3-Day Online FDP on Bio Inspired Optimization Techniques for Electrical Engineering Applications	Ramco Institute of Technology, Rajapalayam	21.02.2022	23.02.2022
7.	Short Term Training Program (STTP) on “Fundamentals on Electricals and Electronics”	Ramco Institute of Technology, Rajapalayam	11.02.2022	16.02.2022
8.	Five day finishing school programme on “Hands on Training on Arduino Programming and hardware”	Ramco Institute of Technology, Rajapalayam	22.04.2019	26.04.2019
9.	National level Two-Day workshop on “Arduino Programming and Hardware”	Ramco Institute of Technology, Rajapalayam	11.01.2019	12.01.2019
10.	Overall Coordinator for “TECHYUGA 18”, a National level technical symposium	Ramco Institute of Technology, Rajapalayam	31.08.2018	-
11.	One day workshop on “Arduino” in Techyuga 2018	Ramco Institute of Technology, Rajapalayam	31.08.2018	-

9. Online Courses

S.NO	COURSE TITLE	UNIVERSITY	DATE
1.	Differential Equations for Engineers	The Hong Kong University of Science and Technology	18.06.2023
2.	Crash Course on Python	Google	17.02.2023
3.	Mathematics for Machine Learning: Linear Algebra	Imperial College London	21.06.2022
4.	Getting Started with Deep Learning	Deep Learning Institute	16.11.2022
5.	Mastering Programming with MATLAB	Vanderbilt University	10.10.2021
6.	Solar Energy: Integration of Photovoltaic Systems in Microgrids	Delft University of Technology.	28.10.2020
7.	Linear Circuits 1: DC Analysis	Georgia Institute of Technology	07.09.2020

8.	Operations Research: an Active Learning Approach	The Hong Kong Polytechnic University.	03.09.2020
9.	Transfer functions and Laplace transforms	The Massachusetts Institute of Technology	25.08.2020
10.	Electric Power Systems	The State University of New York	13.07.2020
11.	Electrodynamics: An Introduction	Korea Advanced Institute of Science and Technology (KAIST)	24.06.2020
12.	Programming for Everybody (Getting Started with Python)	University of Michigan	23.06.2020
13.	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	22.06.2020
14.	Circuits and Electronics 1: Basic Circuit Analysis	MITx	31.05.2019
15.	Calculus 1C: Coordinate Systems & Infinite Series	MITx	12.05.2019
16.	Differential Equations: Fourier Series and Partial Differential Equations	MITx	21.12.2018
17.	Calculus 1B: Integration	MITx	09.03.2018
18.	Calculus 1A: Differentiation	MITx	15.09.2017
19.	Introduction to programming with MATLAB	Vanderbilt university	29.05.2017

10. Patents filed/awarded: -

SL. NO.	TITLE	APPLICATION NO.	FILED DATE	STATUS	INVENTOR(S)
1.	Multi Terminal Corrosion Free Service Line Clamp	202141004396	01.02.2021	Granted	Mrs. S. Jeyanthi Mr. A. Arun Kumar Dr. S. Kannan Dr. G. Kanthimathi Dr. O. Senthil Kumar
2.	Electronic Control for Electric Vehicle	202241017752	28.03.2022	Granted	Mrs. S. Jeyanthi Mr. A. Arun Kumar Mr. R. Gajendra Mr. K. Vignesh Mr. E. Athinam

11. Copyright filed/awarded:

Sl.NO.	Title of Work	Registration Number / Diary Number	Status	Name of the Author(s)
1.	Handbook on Renewable Energy Systems Laboratory	L-122561/2023	Granted	Mr. A. Arun Kumar, Mrs. S. Jeyanthi

11. Membership in Professional societies: Life member ISTE**12. Awards, Recognition & Achievements: -**

- ✓ Recognized as an Inductee teacher (Completed all the eight modules in National Initiative for Training of Technical Teachers (for Inductee Teachers) Scheme, 2020.
- ✓ Received Best Paper Award - S. Jeyanthi, B.V. Manikandan presented a paper titled “Performance Analysis of Solar PV System Fed Boost Converter using Different MPPT Techniques”, in the International Conference on Smart Technologies and Applications (ICSTA 2022) organized by Ramco Institute of Technology, Rajapalayam during March 11 - 12, 2022.
- ✓ Produced 100% result in OCH752 – Energy Technology in AY 2022-2023 Odd Semester.
- ✓ Produced 100% result in EE8601 – Solid State Drives in AY 2021-2022 Even Semester.

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

- ✓ Acting as Deputy Warden
- ✓ Acting as Academic Coordinator for the Department of EEE
- ✓ Criterion 2 Coordinator for NBA
- ✓ Criterion 2 Coordinator for NAAC
- ✓ Department Website coordinator
- ✓ Naan Mudhalvan – Department Coordinator