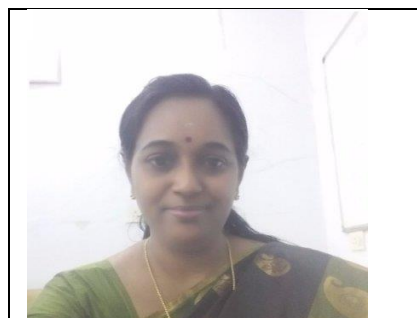


## BIO-DATA



Recent Photograph

<b>1.</b>	<b>Name</b>	Sreedevi S Nair			
<b>2.</b>	<b>Designation</b>	Assistant Professor			
<b>3.</b>	<b>Residential Address</b>	102/3, Shiva Kalpataru Arcade, Sector 17, Kamothe, Navi-Mumbai.			
<b>4.</b>	<b>Date of birth</b>	03/02/1980			
<b>5.</b>	<b>Total Experience</b>	21 years 8 months			
<b>i.</b>	<b>Teaching</b>	21 years 8 months			
<b>ii.</b>	<b>Industrial</b>	0 yrs			
<b>6.</b>	<b>Qualifications</b>				
	<b>Exam Passed</b>	<b>Year</b>	<b>Institution/ University</b>	<b>Branch/Specialization</b>	<b>Percentage/CGPI</b>
	ME	2012	Mumbai University	Power Electronics and Drives	84.4%
	B.Tech	2001	Mahatma Gandhi University, Kerala	Electronics and Communication	74.6%
	Pre-Degree	1997	Kerala University	Science and Maths	80.8%
	SSLC	1995	Board of Public Exams, Kerala	All subjects	90%
<b>Additional Qualification:</b> Pursuing Ph.D in Electrical Engineering					
<b>7.</b>	<b>Employment Record</b>				
	<b>Institution</b>	<b>Year (From To)</b>		<b>Designation</b>	
	College of Engineering, Perumon, under CAPE(Co-operative Academy of Professional Education, Kerala)	June 2003 to June 2006		Lecturer	
	Fr.C.Rodrigues Institute of Technology, Vashi	June 2006- June 2013		Lecturer	
	Fr.C.Rodrigues Institute of Technology, Vashi	June 2013- present		Assistant Professor	
<b>8.</b>	<b>Undergraduate / Postgraduate Teaching Experience and Subjects Taught</b>				
	<b>Subjects Taught at UG level</b>				
	<b>Sr.No.</b>	<b>Name of Subject</b>		<b>Semester</b>	
	1.	Electronic Devices and Circuits		III	
	2.	Network Theory		III	

	3.	Signal Processing	IV			
	4.	Communication Engineering	V			
	5.	Power Electronics	V			
	6.	Microcontrollers and its Applications	VI			
	7.	Renewable Energy and Energy Storage	V			
	8.	Electronic Components and Circuits	III			
<b>Subjects Taught at PG level</b>						
	Sr.No.	Name of Subject	Semester			
	1.	Electrical Power Quality	II			
	2.	Renewable Energy Systems and Energy Storage	I			
<b>9.</b>	<b>Research Funding / Consultancy Services:</b>					
	Sr.No.	Name of the Company	Address	Product	Consulting Service	Consulting Fees
	<b>Research Grants:</b>					
	Sr.No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year	Name of Research Project
	1	University of Mumbai	Minor Research Grant	15,000/-	2017	Design and Implementation of Z-Source Inverter (Completed)
	2	University of Mumbai	Minor Research Grant	45,000/-	2019	SiC Based Isolated DC-DC converter for On-board Electric Vehicle Battery Chargers (Completed)
	<b>Technical Collaboration / Lab Funding with Industries</b>					
	Sr.No.	Name of the Funding Organization	Type of Support	Amount (Rs.)	Year	
<b>10.</b>	<b>Professional Societies Fellowship / Membership</b> Indian Society for Technical Education (ISTE), Life Member Institution of Engineers (IEI), Corporate Member					
<b>11.</b>	<b>Achievements / Awards / Position</b> <b>Best Paper Awards:</b> 1. Best paper Award for the paper “Modelling and Simulation of a Fuel Cell Based System for Residential Applications” Published at the Proceedings of the International Conference in Advances in Science and Engineering, ICAST, 2014. 2. Best paper Award for the paper “Design and Simulation of a Fuel Cell Based System for Residential Applications” Published at the Proceedings of the 24 <sup>th</sup> , IRF, Conference, Pune, April 2015. 3. Won <b>Elite</b> Score for the Course “Design of PhotoVoltaic Systems” NPTEL Certified course conducted by IISc, Bangalore, July-October, 2018. 4. Won <b>Elite</b> Score for the Course “Control and Tuning Methods for Switched Mode Power Converters” NPTEL Certified course conducted by IIT Kharagpur, July-October, 2021. 5. Won <b>Elite</b> Score with <b>SILVER MEDAL</b> for the Course “Design of Power Electronic Converters” NPTEL Certified course conducted by IIT Guwahati, Feb-April 2022.					
<b>12.</b>	<b>Projects guided in UG/PG level</b> <b>UG Level:</b> Guided more than 15 projects in the field of Electrical Engineering. <b>PG Level:</b> 1) Design and Implementation of BLDC motor 2) Design and Implementation of Z-Source Inverter 3) Energy Management System for Parallel Hybrid Vehicles using Fuzzy Logic Controller. 4) DC-DC Converters for Battery Charging Applications in Electric Vehicle.					

13.

**Short Term Training Programmes attended**

- 1) Quality Improvement Programme on “Instructional Design and Delivery” from 05/07/2004 to 10/07/2004 by NITTTR, Chennai.
- 2) ISTE Approves STTP on “Wireless Technologies and Mobile Computing” from January 15-19, 2007 by Department of Information Technology, FCRIT, Vashi.
- 3) AICTE approved STTP on “Matlab, Etap and their applications” by Department of Electrical Engineering, during January 7-11, 2008.
- 4) A compact training workshop in “Embedded System Design” during March 2009 conducted by Maximus Techno Labs, Thane.
- 5) A two day workshop on “Design with 8051 Microcontroller” by Mechanical Department of Sardar Patel Institute of Technology, Andheri during 19-20 March,2010.
- 6) A two day seminar on “Recent Advances in Power Electronics and Drives” by Department of Electronics Engineering, Fr.CRCE, Bandra, Mumbai
- 7) STTP on “EMF and its Applications” by Department of Electrical Engineering, FCRIT, Vashi during April 7-11, 2014.
- 8) STTP on “Structured Programming Approach” Department of Computer Engineering, FCRIT, Vashi during October 7-16, 2014.
- 9) STTP on “Analog CMOS VLSI Design” by Electronics Engineering Department, SPIT, Andheri during 7<sup>th</sup>-12<sup>th</sup> December 2015.
- 10) STTP on “Smart Grids: Renewable Integration and Micro grids” in collaboration with IIT Kanpur, by VJTI, during 25<sup>th</sup> February to 1<sup>st</sup> March 2017.
- 11) ISTE Approved Short Term Training program on “Electric and Hybrid Electric Vehicle Technology” Department of Electrical Engineering FCRIT, Vashi, June 18-23, 2018.
- 12) AICTE-ISTE Approved Short Term Training program on “Teaching Pedagogies for Engineering Education” Department of Electrical Engineering FCRIT, Vashi, June 24-28, 2019.
- 13) TEQIP-III Sponsored Faculty Development Programme on “Electrical Vehicle and Renewable Powered Charging Stations” EVRC-2019, Department of Electrical Engineering, NIT, Calicut during Dec 15-21st 2019.
- 14) One-week National Faculty Development Program and Online training on “Moodle learning Management system” in Association with Spoken Tutorial IIT Bombay, organised by Somaiya Institute of Engineering and Information Technology from 26 th -30th May 2020.
- 15) Three days online Workshop on “Education 4.0” organised by IQAC, Atharva College of Engineering on 28th – 30th April 2020.
- 16) TEQIP-III Sponsored Online FDP on “Recent Trends in Power Electronics, Research Scope and Challenges” conducted by Department of Electrical and Electronics Engineering, NIT, Suratkal from 23-27, September 2020.
- 17) Online Short-Term Course on “Design and Control of Power Electronic Converters and Applications” conducted by Department of Electrical and Electronics Engineering, NIT, Suratkal from 19-23, October 2020.
- 18) Five Days Online FDP on “Research in Engineering-A way forward” organised by A.P. Shah Institute of Technology, Thane from 6-10 July, 2020.
- 19) AICTE Sponsored Two weeks Online FDP on "Trends and Challenges in Power Converters and Control: Slot I " organised by EEE, College of Guindy, Chennai from 9-23, February 2021.
- 20) ISTE Approved STTP on “Digital Transformation in Teaching Learning Process “organised by Department of Computer Engineering from 18-22, January 2021.
- 21) AICTE Sponsored Two weeks Online FDP on "Trends and Challenges in Power Converters and Control: Slot II " organised by EEE, College of Guindy, Chennai from 8-18, May 2021.
- 22) NPTEL Certified course on “Control and Tuning Methods for Switched Mode Power Converters” conducted by IIT Kharagpur (1 week FDP) during July-Nov, 2021.
- 23) NPTEL Certified course on “Design of Power Electronic Converters” conducted by IIT Guwahati (1 week FDP) during February to April, 2022.
- 24) Five days online FDP on “Sustainable Technologies & Energy Management of Hybrid Micro grid (STEMM-2023)” organized by Department of Electrical Engineering, NIT Rourkela from 12<sup>th</sup> July 2023 to 16<sup>th</sup> July 2023.
- 25) Five days online FDP on “Applications of Machine Learning Techniques in Sustainable Technologies (AMLST-2024)” organized by the Department of Computer Science and

Engineering, and Electrical Engineering, NIT Rourkela from 24<sup>th</sup> January 2024 to 28<sup>th</sup> January 2024.

26) Five days online FDP on “Power Converters for Green Energy and EV Integration(PCGEEI-2024)” organized by the Department of Electrical Engineering, NIT Rourkela from 13<sup>th</sup> March 2024 to 17<sup>th</sup> March 2024.

27) Five days online FDP on “AI/ML based Controllers Design and their Applications in Real-time Platform(AMCDARP-2024)” organized by the Department of Electrical Engineering, NIT Rourkela from 28<sup>th</sup> September 2024 to 2<sup>nd</sup> October 2024.

14.

**List of Papers Published in National and International Conferences:**

1. Mini Rajeev, **Sreedevi S Nair**, “Design Considerations of Solar Powered Street Light” Presented at International Conference, Control, Computing and Power Engineering, CCPE, July 28, 2010.

2. **Sreedevi S Nair**, “A Study of PV Powered Brushless DC Motor for Water Pumping” Presented at the National Conference, Zenith, October 14, 2011.

3. **Sreedevi S Nair**, Mini Rajeev, “Design and Simulation of PV Powered PMBLDC motor for water pumping”, Presented and Published at the Proceedings of the National Conference, NCNTE, February 2012.

4. **Sreedevi S Nair**, Mini Rajeev, “Hardware Implementation of the PV Powered PMBLDC motor for water pumping”, Presented and Published at the Proceedings of the International Conference, RACEM, EXTC 046, January 12, 2013.

5.\***Sreedevi S Nair**, Prajakta Pawar, “A Comparative Study of Different Tuning Algorithms” Presented and Published at the Proceedings of the National Conference, NLC, October 12, 2013.

6.\***Sreedevi S Nair**, “Design Details of the Hardware Implementation of PMBLDC motor using DSP”, Published at the Proceedings of the International Journal of Advanced Research in Science and Engineering, IJARSE, April Issue, 2014.

7. \***Sreedevi S Nair**, Amit Kumar Yadav, “Modelling and Simulation of a Fuel Cell Based System for Residential Applications” Published at the Proceedings of the International Conference in Advances in Science and Engineering, ICAST, 2014.

8. \***Sreedevi S Nair**, Amit Kumar Yadav, “Design and Simulation of a Fuel Cell Based System for Residential Applications” Published at the Proceedings of the 24<sup>th</sup>, IRF, Conference, Pune, April 2015.

9. \***Sreedevi S Nair**, Megha Pillai, “Simulation of a PMBLDC motor using Artificial Neural Network” Published at the Proceedings of the International Conference in Industrial Engineering, ICIE, SVNIT, Nov 27,2015.

10.\*Megha Pillai, \***Sreedevi S Nair** “Closed Loop Sped Control of PMBLDC motor using Artificial Neural Networks” Published at the Proceedings of the IEEE Sponsored International Conference on Innovations in Information, Embedded and Communication Systems, ICIECS-2016.

11. Mrudul A Mawlikar, **Sreedevi S Nair**, “A Comparative Analysis of Z Source Inverter and DC-DC converter fed VSI”, International Conference on Nascent Technologies, ICNTE, 2017, Published in **IEEE Explorer DOI: 10.1109/ICNTE.2017.7947970**.

12.**Sreedevi S Nair**, Mrudul Mawlikar,” A Comparative Analysis of Shoot Through Control Schemes for Z-Source Inverter”, IEEE Sponsored International Conference on Electrical, Instrumentation and Communication Engineering, 27<sup>th</sup> to 28<sup>th</sup> April, 2017.Published in **IEEE Explorer DOI: 10.1109/ICEICE.2017.8191897**

13. \***Sreedevi S Nair**, “Design and Implementation of a PMBLDC motor using Artificial Neural Network” Published at the Proceedings of the International Conference in Industrial Engineering, ICIE, SVNIT, Dec 23,2017.

14. Mrudul A Mawlikar, **Sreedevi S Nair**, “Design and Implementation of Z-source Inverter using SBC” Published in Asian Journal for Convergence in Technology, Volume IV, Issue II Link: <http://www.asianssr.org/index.php/ajct/issue/view/19>

15. **Sreedevi S Nair**, Anvay kokate, Hrishikesh Khandagale, Jersan George, Arnod Koli” Modelling and Simulation of Standalone Wind Energy Conversion System”,IEEE Sponsored International Conference on Trends in Electronics and Informatics ICOEI 2019, 23<sup>rd</sup>to 24<sup>th</sup> April, 2019.Published in **IEEE Explorer DOI: <https://ieeexplore.ieee.org/abstract/document/8862682/10.1109/ICEICE.2017.8191897>**

16. Anuradha Jadhav, **Sreedevi S Nair** “Battery Management system using Fuzzy Logic Controller” Published in Journal of Physics: Conference series, Volume 1172, 2019. Link: <https://iopscience.iop.org/journal/1742-6596>.

	<p><b>17. S. S. Nair</b> and M. Rajeev, "Exploration of Three-port DC to DC Converters and its Multidisciplinary Applications," <i>2022 IEEE 3rd Global Conference for Advancement in Technology (GCAT)</i>, Bangalore, India, 2022, pp. 1-6, doi: 10.1109/GCAT55367.2022.9972214.</p> <p><b>18. S. S. Nair</b> and M. Rajeev, "A Novel High Gain Non-Isolated Three-port Converter for Stand-Alone PV Applications," <i>2023 IEEE International Conference on Computer, Electronics &amp; Electrical Engineering &amp; their Applications (IC2E3)</i>, Srinagar, Garhwal, India, 2023, pp. 1-6, doi: 10.1109/IC2E357697.2023.10262587.</p>
<b>15.</b>	<p><b>International Conference Technical Program Committee Member / Reviewer</b></p> <ol style="list-style-type: none"> <li>1) Served as Reviewer for International Conference on Nascent Technologies, in association with IEEE on January 27-28, 2017.</li> <li>2) Served as Reviewer for International Conference on Nascent Technologies, in association with IEEE on January 9-10, 2019.</li> <li>3) Served as Reviewer for International Conference on Nascent Technologies, in association with IEEE on January 15-16, 2021.</li> <li>4) Served as Reviewer for International Conference on Nascent Technologies, in association with IEEE on January 20-21, 2023.</li> <li>5) Served as Reviewer for International Conference on Power Instrumentation Control and Computing, ICETEST-2023, in association with TEQIP on April 19-21, 2023.</li> </ol>
<b>16.</b>	<b>Patents : Nil</b>

I hereby declare that all the statements in this biodata are true, complete and correct to the best of my knowledge and belief.

Place: Mumbai

Date : 01/02/2025

Sreedevi S Nair