

Name	Dr. S. SAROJINI MARY			
Contact (office)	Associate Professor Department of Electrical and Electronics M.I.E.T. Engineering College Trichy.			
Email	Sarojini.s@miet.edu			
Educational Qualifications	DEGREE	EDUCATIONAL INSTITUTION	BOARD/ UNIVERSITY	YEAR OF PASSING
	Ph.D (EEE)	National Institute of Technology Tiruchirappalli	National Institute of Technology Tiruchirappalli	2017
	M.E (Power Electronics and Drives)	J.J. College of Engineering and technology Tiruchirappalli	Anna University	2010
	B.Tech. (EEE)	SASTRA University, Tanjore	SASTRA University, Tanjore	2007
	Diploma (ECE)	P.N.R.M Polytechnic, Trichy.	Tamil Nadu Government	1995
Professional Career Profile	Organization	Designation	Date of Joining	Duration of work
	Kurinji College of Engineering & Technology	Assistant Professor & Hod I/C	01/06/2010	20/01/2014
	Kurinji College of Engineering & Technology	Assistant Professor	02/01/2015	20/01/2018
	SRM TRP Engineering College	Assistant Professor (Sl.Gr)	29/01/2018	31/05/2020
	M.I.E.T. Engineering College	Assistant Professor (Sl.Gr)	08/10/2020	05/01/2021
	M.I.E.T. Engineering College	Associate Professor	06/01/2021	Till Date
Membership in Professional Bodies	ISRD (Life Member ID: SR4150900585)			
Academic Areas of Interest	Renewable Energy Resources. DC-DC converters for solar applications. Solar MPPT power tracking under partial shading conditions.			

Administrative Capabilities

Roles and Responsibilities in MIET Engineering College, Trichy

- Member in Research Committee.
- Member in NBA criteria 7 of the Department.
- Research & Development Coordinator of the Department.
- Member in NAAC criteria 7.
- Advisor for the Students.
- Department Library in charge.

LIST OF PUBLICATIONS

List of paper published in journal

1. Namani Rakesh, Senthilkumar Subramaniam, **Sarojini Mary Samikannu** and G. Madhusudanan; "A Simple control strategy and dynamic energy management for the operation of combined grid-connected and stand-alone solar photovoltaic applications"; Journal of King Saud University- Engineering Sciences (JKSUES) – Elsevier, pp. 1-9, 2021. DOI:10.1016/j.jksues.2021.12.009. (SCI/Scopus H Index-34) (Impact Factor- 4.695).
2. B Mohamed Arafath Rajack , S Ganesh, **S Sarojini Mary** and JS Richard Jimreeves "Determination of Switching Angle from Inductance Profile of Converter Fed Switched Reluctance Generator in Wind Energy Conversion System" IOP Conf. Series: Materials Science and Engineering 1084 (2021) 012063 IOP Publishing doi:10.1088/1757-899X/1084/1/012063.
3. **S.Sarojini mary** "Enhanced power generation from Plants Plant-e technology using high voltage gain DC-DC converter topology" International Journal of Electrical Engineering & Technology (IJEET), Volume 11, Issue 4, June 2020, ISSN Print: 0976-6545, ISSN Online: 0976-6553, SCOPUS.
4. **S.Sarojini mary**, A.Jenny "Conversion of petroleum-based fuel from waste plastics" JASC: Journal of Applied Science and Computations, Volume VII, Issue VI, June/2020, Page No: 65, ISSN NO: 1076-5131.
5. **S.Sarojini mary** "Hybrid lighting using fiber optic cables" WHJJ journal: Wutan Huatan Jisuan Jishu, Volume XVI, Issue VI, JUNE/2020, Page No: 206, ISSN NO: 1001-1749.

6. G. Madhusudanan, N. Rakesh, S. Senthil Kumar, **S. Sarojini Mary**, "Solar Photovoltaic Array Reconfiguration using Magic Su-Do-Ku algorithm for Maximum Power Production under Partial Shading Conditions", International Journal of Ambient Energy, <https://doi.org/10.1080/01430750.2019.1691654>, Annexure II. SCOPUS.
7. **S.Sarojini mary**, G.Varathan "High Voltage Gain DC-DC Converter with a Three Winding Coupled Inductor" JASC: Journal of Applied Science and Computations Volume 5, Issue 10, October/2018, ISSN NO: 1076-5131.
8. **Sarojini Mary Samikannu**, Rakesh Namani, and Senthil Kumar Subramaniam, "Power enhancement of partially shaded PV arrays through shade dispersion using magic square configuration" AIP. J. of Renewable and Sustainable Energy, 8, 063503 (2016); doi: 10.1063/1.4972285. Annexure-I
9. **S. Sarojini Mary**, S. Senthil Kumar, Syam Prasad Poluru, and M. Jaya Bharata Reddy, "A Dual DC Output Power Supply for a Stand-Alone Photo voltaic System", International Journal on Electric Power Components & Systems (Taylor & Francis Publications), Vol.43, Issue 8-10, pp. 939-950, 2015. Annexure-I

List of paper presentation in International conferences

1. B.Mohamed Arafath Rajack, S.Ganesh, **S. Sarojini Mary**, and J.S.Richard Jimreeves: Determination of Switching Angle from Inductance Profile of Converter Fed Switched Reluctance Generator in Wind Energy Conversion System. First International Conference on Circuits, Signals, Systems and Securities (ICSSSS 2020) December 11-12, 2020 at Bannari Amman Institute of Technology.
2. **S.Sarojini mary**, A.JENNIY "CONVERSION OF PETROLEUM-BASED FUEL FROM WASTE PLASTICS" International Conference on Electrical Emerging Technology held at SRM TRP Engineering College, Tiruchirappalli.
3. **S.Sarojini mary**, "Experimental Analysis of chaotic PWM for EMI suppression in converters" National Conference on Electrical Emerging Technology held at M.A.M college of Engineering, Tiruchirappalli (27th March 2010).

Patents

- Published a patent under the title "WATER HARVESTING PROVISIONS IN UNDERGROUND DRAINAGE PIPES" Indian Patent, Application No: 202041043755 A, Journal No: 42/2020, published on: 16/10/2020
- Published a patent under the title "DEVELOPMENT OF ADVANCED MULTI AGENT SYSTEM WITH MOBILE ROBOT FOR CONTROL STRATEGY" Australian Patent, Application No: 2020103439, published on: 2020-12-03, Granted on: 2021-01-13.

Academic and professional honors

- **Reviewer** for the Technical manuscripts submitted to International Journal of Electrical Power Components and Systems.
- **Recognized Supervisor** for guiding PhD scholars in the faculty of ELECTRICAL ENGINEERING under Anna University, Chennai, (Ref No: 3930030). Presently guiding 1 **PhD Research scholar** under Anna University, Chennai.

Research Projects

- Submitted a Research proposal titled "Development of Students (disabled students) Bedding Management System Based on Intelligent Monitoring Bed" for Rs 4.00 lakhs under **M.I.E.T. - MSME Incubation Centre** Idea Hackathon 3.0 (Women) scheme during 2023 (PI).
- Submitted a Research proposal titled "Development of solar-powered lightweight Electric rickshaw equipped with refrigeration system for Street Vendors of temperature sensitive Goods" for Rs 4.77 lakhs under **M.I.E.T. - MSME Incubation Centre** Idea Hackathon 3.0 (Women) scheme during 2023 (PI).
- Submitted a Research proposal titled "Modified p&o algorithm for GMPPT and detection of partial shading in photovoltaic systems" for Rs 3.96 lakhs under **TNSCST Faculty scheme**, Govt. of Tamilnadu scheme during 2019(PI).
- Submitted a Research proposal titled "Development of Micro grid for Enhancing Power Quality and PV Output Power under Partial Shading Conditions in Grid-Connected PV System" for Rs 26.78 lakhs under **DST, SERD 2019, APPLIED RESEARCH SOLAR STREAM**(PI).

Organizational skills

- Organized one day Guest Lecture programme on **"Applications of Data science in Electrical Engineering"** on 7th October 2022 at M.I.E.T Engineering College.
- Organized one day National seminar on **"Photovoltaic cell Modelling, Interconnection Schemes and MPPT extraction techniques"** on 27th July 2019 at SRM TRP Engineering College.
- Organized one day workshop on **"Emerging trends in Electrical systems"**, 28th April, 2011 at Kurinji college of Engineering.

Academic and Professional Honors

- Completed NPTEL online certification course **"Design of photovoltaic systems"** with Elite category during Oct 2018.
- Completed NPTEL online certification course **"Introduction to Smart Grid"** with Elite category during Oct 2019.
- Applied NPTEL online certification course "Recent Advances in Transmission Insulator" Jan 2020. (waiting for exam).
- Completed Coursera online certification course **"Wind Energy"** authorized by Technical University of Denmark (DTU), during June 2020.
- Completed Coursera online certification course **"Introduction to solar cells"** authorized by Technical University of Denmark (DTU), during June 2020.
- Completed Coursera online certification course **"Electric Power Systems"** authorized by University at Buffalo and The State University of New York, during June 2020.

List of Short Term Training Programme / FDP/ Seminar/Workshops attended

- One Week Faculty Development Program on "Arduino" from 21.12.2023 to 27.12.2023 conducted by the Spoken Tutorial project, IIT Bombay, under an honour invigilation system by participating and securing a Score of 85.00%.

- One Week Faculty Development Program on "The Role of AI in Renewable Energy Applications" from 01.08.2022 to 05.08.2022 at KPR Institute of Engineering and Technology, Coimbatore, India.
- IA Training Programme on "Advanced Level" (Total 15 Sessions) conducted by MoE's Innovation Cell & AICTE during the IIC Year 21-22.
- One Week Faculty Development Program on "Internet of Things and Applications in 5G" from 05.01.2021 to 09.01.2021 at Easwari Engineering College, Chennai, India.
- One Week Faculty Development Program on "Research Opportunities, Challenges in Power Electronics for EV and Its Impact on Smart Grid", organized by the Department of EEE at National Institute of Technology, Tiruchirappalli, from 14/12/2020 to 20/12/2020.
- AICTE sponsored one week Short Term Training Programme on "POWER ELECTRONICS BASED DRIVES AND CONTROL" held during 01/10/2020 to 06/10/2020 organized by Department of Electrical Engineering, Prof Ram Meghe College of Engineering and Management, Badnera-Amravati, Maharashtra.
- One Week Online National Faculty Development Program on "E - Contents and ICT Tools for Innovative and Effective Teaching & Learning Process" Organized by Roorkee College of Management & Computer Applications, Roorkee from 8 August to 14 August, 2020.
- One Week International webinar on "ELITE 2020 Series -1" organized by Manakula Vinayagar Institute of Techology (IEEE STB-10831), Puducherry from 8th July 2020 to 14th July 2020.
- Webinar on Digilocker - a technical know-how and awareness organized by the Department of Computer Science and Engineering at Pondicherry Engineering College held on 30-06-2020, Puducherry, India.
- Webinar on Battle Against COVID-19 with Aarogya Setu organized by the Department of Computer Science and Engineering at Pondicherry Engineering College held 2nd July 2020 , Puducherry, India.
- Three days Faculty development program on "Art of Writing Research Articles and Funding Proposals" organized by Manakula Vinayagar Institute of Techology (IEEE STB-10831), Puducherry from 21st May 2020 to 23rd May 2020.

- workshop on How to write an effective Research paper for peer reviewed journals organized by the SRM GROUP OF INSTITUTIONS held on 24-04-2020, Tamilnadu, India.
- Attended 1.5 week Faculty development programme on "Introduction to Smart Grid" organized by the NPTEL-AICTE at Iisc.Bangalore.
- 1.5 week Faculty development programme on "Design of photovoltaic systems" organized by the NPTEL-AICTE at Iisc.Bangalore.
- One week AICTE-ISTE Sponsored Induction Programme on "ICT Based Instructional Design and Delivery for Outcome Based Education" at Easwari Engineering College on 14th May 2018 -19th May 2018.
- One-day workshop on Mind without Fear organized by the Department of Electronics & Communication Engineering held at Centre for University Industry Collaboration, Anna University (9th July 2013).
- Attended Three-day Workshop on 'Application of power electronics to Renewable energy systems and Micro Grids' organized by the Department of EEE at National Institute of Technology, Tiruchirappalli, (8th - 10th February 2015).
- Attended Two day workshop on "Off-Shore wind farms and smart Grids" organised at NIT, Trichy. (6th and 7th April 2015)
- TEQIP sponsored two day workshop on " Smart Grid technologies issues and challenges" organized by the Department of EEE at Thiyagarajar college of Engineering and CPRI, (Bangalore), (18th & 19st 2013).