

<b>Name: G.EZHILARASI</b>				
<b>Designation:</b>	Associate Professor			
<b>Qualification:</b>	M.Tech., (Ph.d)			
<b>Area of specialization:</b>	Renewable Energy			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	NIL		20	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	7		17	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	10	17		14
<b>Books / Book Chapters</b>	2 /6			
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	NIL		7	
<b>Professional Body Membership</b>	IEEE, ISTE			

<b>Staff Achievements</b>	
	1. Received Rs. 2,000 Cash Award from Sri Sairam Institute of technology for Producing 100% in “Solid State Drives” and “Professional Ethics in Engineering” subject.
	2. As a Session Chair in ESN International Conference on Multidisciplinary Research and Innovation ICMRI – 2020.
	3. Participated and Received Award of honor ESN ICMRI 2020 - WORLD BOOK OF RECORDS CONFERENCE.
	4. Best Women Academician Award Inspirational Super Women Awards in 28th April 2024, organized by ESN Publication.
	5. Star Organizers in IGEN ENERGATHON 2024, 54 <sup>th</sup> EARTH DAY INDEXED, an Intensive 1440 minutes non stop conference on finding solutions to energy sustainability
	6. Star Organizer Award for a event in IGEN Energathon in 2023.
	7. Achieved NPTEL Star.

### **Educational Qualifications:**

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks/ Grades obtained	Class obtained
UG	BE	EEE	2000	SEC	Madras University	59	II
PG	M.Tech	Applied electronics	2007	Sathyabama University	Sathyabama University	81	I (DIST)
Ph.D	Ph.D	Renewable Energy	doing		Anna University		

## Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sairam Engineering College	Associate Professor	28.08.2025	Till date	-	7	-
Sri Sai Ram Institute of Technology	Assistant Professor	03.06.2010	27.08.2025	15	8	26
Bhजारंग Engineering College	Lecturer	03.06.2002	27.04.2007	4	10	24
Gojan School of Business and Technology	Lecturer	22.6.2007	30.4.2010	2	10	8

## Workshop / FDP/STTP/Conference Attended:-

1. Basic Environmental Engineering and Pollution Abatement, **FDP** in NPTEL AICTE Jul-Oct 2024
2. Physics of Renewable Energy Systems **FDP** in NPTEL AICTE Jul-Oct 2024
3. Attended 6 days **FDP** in recent trends in embedded System and IOT in GMR Institute of Technology 27/05/2024 to 01/06/2024.
4. Attended 6 days ATAL **FDP** in Outcome-Based Research: VLSI Design And Modeling At Bharath Institute of Science And Technology from 11/12/2023 to 16/12/2023.
5. Attended on week online **FDP** in “Electric Vehicle Drive System in Jerusalem College of Engineering from 27 to 4<sup>th</sup> March 2023.
6. Attended 6 days Workshop on Emerging Trends, Challenges and Opportunities in Wireless Charging of Electric Vehicles organized by Electric Vehicle Charging Research Centre, Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, from 20.02.2023 to 25.02.2023.
7. Attended Six Day Online **Faculty Development Program** on “Control Engineering in Electric Vehicles” conducted by Department of Electrical and Electronics Engineering in association with SRM TRPEC IEEE Students Branch and IIC from 07.02.2022 to 12.02.2022.
8. Attended **FDP** on "Accreditation and Outcome Based Pedagogic Principles For Effective teaching" From 2022-11-14 to 2022-11-19 To 2022-11-21 to 2022-11-25 At Academy Of Maritime education And Training Deemed To Be University.
9. Attended **FDP** on "Integration of Renewable Energy Technology for Smart Ships and Hands-on Training in Solar System Design Using Simulation Software" from 2022-10-31 to 2022-11-05 to 2022-11-07 to

2022-11-11 at Academy Of Maritime Education And Training Deemed To Be University.

10. Attended 9 days **FDP** on “Design and Development of Industry fed Curriculum in Technological Era from 14-21 December 2022.

11. Attended (**FDP**) on ‘Renewable Energy Systems Laboratory’ organized by the Department of Electrical and Electronics Engineering in SSN during 26th – 29th September, 2022.

12. One day online **FDP** in Recent technological development in Electric Vehicle (EV) System and its Applications in Defence in 2021.

13. Attended online one month Innovation Ambassador training (Advanced Level)” conducted by MoE's Innovation Cell & AICTE in 2021.

14. Attended one day online workshop on “Rapid Software Development with Lab view” in VIT 2020.

15. Attended one day online workshop on “Robotics and IoT” VIT in 2020.

16. Attended six days online **FDP** on Energy Management Systems in RMD engineering college in 2020

17. Attended one day online **FDP** on National Level E-Faculty Development Programme on Road Map to get a Quality Patent held in AMET University in 2020.

18. Attended five days online **FDP** on “Recent Trends in Electrical Engineering” held in Crescent Institute of Science and Technology” in 2020

19. Attended six days online **FDP** on “Recent Trends on Renewable Energy and Electric Vehicle Technology” held in Easwari Engineering College” in 2020.

20. Attended one week online Short Term Training Program on “Post Covid Challenges in Teaching Learning” held in Sagar Institute of Research and Technology, Bhopal in 2020.

21. Attended Six Days Online Short Term Training Programme on "Mitigation of Power Quality Issues in Distributed Generation Systems using Custom Power Devices-III" held in RMD Engineering College in 2020

22. Attended AICTE Training And Learning (ATAL) Academy Online **FDP** on "Energy Engineering" at GANDHI INSTITUTE FOR EDUCATION AND TECHNOLOGY, BANIANANGI. In 2020

23. Attended AICTE Training And Learning (ATAL) Academy Online Chapter “Emerging Trends Technologies Electrical Engineering” on "Internet of Things (IoT)" at Sri Sairam Institute of Technology in 2020.

**Workshop / Seminar / Webinar Organized:-**

1. Organized symposium of EEE department ELECTRA 2K25 on 17.9.2025.

2. Organized workshop on Technology and Industry Trends in AI software development on 11.3.2025

3. Organized “Event on Standards BIS on 26.4.2024

4. Organized one day workshop on The Role of Artificial Intelligence in IOT on 22.3.2024.

5. Organized Youth to Youth connect BIS on 6.3.2024.
6. Organized seminar on “How to build successful career after Engineering?” on 14.8.2024
7. Organized Webinar on Artificial Intelligence for Smart Agriculture on 18.9.2024
8. Organized Workshop come training on GATE Pathways to higher studies and career on 18.9.2024.
9. Organized Seminar on “Key Skills for Engineers” in 19.9.2023
10. Organized webinar in NDLI National Digital Library on” Universal Human Values Importance of Engineering” on 12.10.2023.
11. Organized webinar in NDLI National Digital Library on “Energy Management” on 12.10.2023.
12. Organized webinar in NDLI National Digital Library on” The Art of Writing of Research Article (NDLI)” on 20.9.2022.
13. Organized online webinar on “Electrical Energy Conservation and Management in Process Industry” in December 2020.
14. Organized online webinar on “IoT opportunities and Startups” in September 2021.
15. Organized Regional outreach program for school to emphasize hacking fundamentals via interactive media “ ByteReach” Cyber club in April 2021.
16. Organized online webinar on “Distributed Generation and Power Quality” in February 2021.
17. Organized online webinar on “Electrical Energy Conservation” in December 2020.
18. Organized online webinar on “Essentials of Cyber Security and Job opportunities in cyber club February 2021.
19. Organized online webinar on “Alternative energy Solar and Solar PV” in November 2020.
20. Organized online webinar on “Demystifying Cyber Security” in Cyber Club in November 2020.

**Symposium Attended:** NIL

**Completed / Ongoing Projects:** NIL

**Patent:**

1. Leveraging RFID for Road Safety sign Detection to Enhance Efficiency and Notify Drivers in 18.12.2025.
2. CGPDTM alerts in 24.12.2025
3. Bluetooth-enabled lawnmower powered by solar Published in 2024
4. An Intelligent Irrigation System For Efficient Cultivation: Integrating Iot With Machine Learning Publication Date : 15/03/2024
5. Iot-Enhanced Machine Learning For Traffic Management Systems In Smart Cities Publication Date : 09/08/2024
6. Smart Booking Machine For Postal Letters And Parcels Using Iot& Artificial Intelligence Techniques, Published date 7/11/2022.

7. The Impact Of Artificial Intelligence And Machine Learning On Employee Engagement And Work Practices In Organisations, Published date 29/11/23.

### **Journal Publications:**

#### **Papers published in International Journals:**

1. D. Lakshmi<sup>1</sup>, T. Sasilatha<sup>1</sup>, G. Ezhilarasi<sup>2</sup>, R. Zahira<sup>3</sup>, Jeyagopi Raman<sup>4</sup>, "Design Of Hybrid De-Fpa For Load Frequency In Deregulated Power System", Journal of Engineering Science and Technology, Special Issue on ICIT2022 Vol. 19, No. 2 (2024) 118 –127, © School of Engineering, Taylor's University.

2. D. Lakshmi, R. Zahira, C.N. Ravi, P. Sivaraman, G. Ezhilarasi, C. Sharmeela, Chapter, "Application of Optimization Technique in Modern Hybrid Power Systems" IoT, Machine Learning and Blockchain Technologies for Renewable Energy and Modern Hybrid Power Systems, 1st Edition, 2023, pages 23.

3. R. Zahira<sup>1</sup>, D. Lakshmi<sup>2</sup>, G. Ezhilarasi<sup>3</sup>, P. Sivaraman<sup>4</sup>, C.N. Ravi<sup>5</sup>, C. Sharmeela Stand-alone microgrid concept for rural electrification: A review Residential Microgrids and Rural Electrifications Pages: 109 – 130 Book Chapter 2021 EID: 2-s2.0-85128270737 DOI: 10.1016/B978-0-323-90177-2.00013-X

4. D. Lakshmi, S. Baskaran, G. Ezhilarasi, C. Valli, "Direct AC/DC Power Converter Using Auxiliary Circuits", International Journal of Advanced Science and Technology, Vol. 29, No. 7s, (2020), pp. 785-793, ISSN: 2005-4238.

5. D. Lakshmi, G. Ezhilarasi, S. Baskaran, S. Siva Prasad, "Analysis of Various PWM Schemes For The Design Of Asymmetric Single Phase 31 Level Cascaded MLI", International Journal of Advanced Science and Technology, Vol. 29, No. 4s, (2020), pp. 1050-1066, ISSN: 2005-4238.

6. S. D. Sundarsingh, Jebaseelan, K. Vasanth, S. Jayaprakash, G. Ezhilarasi, C. N. Ravi, D. Lakshmi, "Performance Analysis Of Pv Based Dc-Ac Converter For Dielectric Heating", Journal Of Critical Reviews, Vol 7, Issue 19, 2020, pp- 566-576.

7. D. Lakshmi, G. Ezhilarasi, K. Rekha, G. Jegadeeswari, "Automatic Detection And Power Shutdown For Gas Leakage And Its Monitoring System", International Journal of Aquatic Science Vol 12, Issue 03, 2021 pp 333-340 (WOS).

8. S. Amirtharaj, D. Lakshmi, G. Jegadeeswari, G. Ezhilarasi, "Performance Of A Photovoltaic Luo-Converter With Multiple-Lift Push-Pull Switched Capacitors", International Journal of Aquatic Science Vol 12, Issue 03, 2021 pp 350-357 (WOS).

9. S. Baskaran, D. Lakshmi, R. Zahira and G. Ezhilarasi, "Hybrid Solar System Using Mppt Algorithm For Smart DC House", International Journal of Pure and Applied Mathematics, Volume 118, No. 10 Feb 2018, pp 409-417 (Scopus Indexed).

10. S. Benisha, D. Lakshmi, R. Zahira and G. Ezhilarasi, "Dc – Dc Converter Integrated With Voltage Multiplier For High Voltage Gain", International Journal Of Advanced Research Trends In Engineering And Technology (IJARTET), Volume 5, Special Issue 6, February 2018. (UGC Journal).

11. D.Lakshmi, S.Benisha, S.Baskaran and G.Ezhilarasi(2017) “A Particle Swarm Optimization Based Load Frequency Control For A Deregulated Power System”, International Journal of Scientific Research and Review ,Vol 6, No 11 pp , 15-22.(UGC Journal)

12.D.Lakshmi, G.Ezhilarasi and R.Zahira“ Optimization of Unit Commitment using Ant colony Algorithm”, Australian Journal of Basic and Applied Science , Feb 2016, Vol 10, Issue 1 pp 709-714.

13. D. Lakshmi, G. Ezhilarasi, R. Zahira and V. Balaji(2016), “Design and Optimization of Battery Voltage Source to Use with PMDC Motor”, Middle-East Journal of Scientific Research 24 (3), ): Vol 24, issue 3, pp 955-961.

14.C Banusri, P Rathnavel, G Ezhilarasi, ”SIMULTANEOUS DC AND THREE PHASE AC OUTPUT USING HYBRID CONVERTER”,International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.75 (2015).

### **International Conferences**

1.G.Ezhilarasi,M.SanthoshKumat,Prathich De Cruz,D.akshmi, E.Maheswari, DhyaneshD “Supply of Uninterrupted Electrical Power Using Hybrid Energy Sources” 2024 International conference on power, Energy, Control and Transmission systems(ICPECTS),08-09 October 2024, DOI:10.1109 / ICPECTS62210.2024.10780158, IEEE Xplore DEC 2024.

2.G.Ezhilarasi, Dhynesh D, Ragavendiran P, RajKumar P, E.Maheswari,,Nishan Sakthi A.S“Conveyor Belt Breakdown Detector” 2024 International conference on power, Energy, Control and Transmission systems (ICPECTS), 08-09 October 2024, DOI:10.1109/ICPECTS62210.2024.10780271.,IEEE Xplore DEC 2024.

3.D.Lakshmi,R.K. Padmashini, G.Ezhilarasi, P. Sivraman. R.Zahira“Introduction for the need of DER’s and DESS for digital distribution systems”<https://doi.org/10.1016/B978-0-443-22013-5.00007-1>

4.V.Balaji, G.Rashmi, G.Ezhilarasi, G.W.Martin, Ananthan Nagarajan “Enhanced Performance of PMSG-Based Wind Energy Conversion Systems Using a Fuzzy Adaptive Radial Basis Function Neural Network Approach”2024 International Conference on Advancement in renewable energy and Intelligent Systems(AREIS),05-06 December 2024, DOI: 10.1109/AREIS62559.2024.10893683, IEEE *Xplore*: 25 February 2025.

5. T.BalwinImmanuel,P.Rathnavel, A.Arikesh, T.Beni Steena, S.Kavitha, G.Ezhilarasi “Performance Analysis of single Stage Inverter Employing Fuzzy controller”2022 8<sup>th</sup> International conference on smart structures and systems(ICSSS),DOI:10.1109/ICSSS54381.2022.9782180. IEEE Xplore June 2022.

6. D.Lakshmi,G.Ezhilarasi, S Kavitha, S.Puspha, B.chinthamani, “Investigation of Distribution Static Compensator Formitigation of Nonlinear Loads”2022 8<sup>th</sup> International conference on smart structures and systems(ICSSS),DOI:10.110/ICSSS54381.2022.9782277, .IEEE Xplore June 2022.

7. Maheswari E, Balaji V, G.Ezhilarasi, D.Lakshmi, A.Abirami, SoundarayaM“LIDAR Micro Drone with Proximity Sensing”2023 Intelligent computing and control for Engineering and Business systems (ICCEBS), Date December2023,10.1109/ICCEBS58601.2023.10449313,IEEE Xplore,19 March 2024.

8. Maheswari E, Balaji V, G. Ezhilarasi, D. Lakshmi, Srikanth R GoakulB “IOT Based Optimized Load Scheduling and Automation on Charging EV” 2023 Intelligent computing and control for Engineering and Business systems (ICCEBS), Date December 2023, 10.1109/ICCEBS58601.2023.10449318, IEEE Xplore, 19 March 2024.

9. G. Ezhilarasi, R. Senthil Kumar, “Design of Converter for Improvement of LVRT Capability in Grid Integrated PV System” 2023 Intelligent computing and control for Engineering and Business systems (ICCEBS), Date December 2023, 10.1109/ICCEBS58601.2023.10448932, IEEE Xplore, 19 March 2024.

10. G. Jagadeeswari, G. Ezhilarasi, V. Pramila, J. Vijayanand, B. Kirubadurai, “Performance Comparison of Dynamic Responses & Speed Control of Switched Reluctance Motor Using PI & Fuzzy logic Controller” 2023 9<sup>th</sup> International conference on Electrical energy systems (ICEES), date: 23-25 March 2023, DOI: 10.1109/ICEES57979.2023.10110237, IEEE Xplore May 2023.

11. S. Benisha, /J. Anitha Roseline, K. Murugesan, D. Lakshmi, G. Ezhilarasi, P. Muthukumar “Enrichment in power quality using Power Factor Correction Cuk converter fed BLDC Motor Drive” 2023 9<sup>th</sup> International conference on Electrical energy systems (ICEES), date: 23-25 March 2023, DOI: 10.1109/ICEES57979.2023.10110134, IEEE Xplore May 2023

**12. Jagadeeswari, G., Ezhilarasi, G., Pramila, V., Vijayanand, J., Kirubadurai, B.** “Performance Comparison of Dynamic Responses & Speed Control of Switched Reluctance Motor Using PI & Fuzzy logic Controller”, *Proceedings of the 9th International Conference on Electrical Energy Systems, ICEES 2023*, 2023, pp. 674–680

13. D. Lakshmi, G. Ezhilarasi, S. Kavitha, S. Pushpa, B. Chinthamani, “Investigation of Distributed Static Compensator For Mitigating of Non Linear Loads, 8th International Conference on Smart Structures and Systems (ICSSS), 2022.

14. S. Benisha, J. Anitha Roseline, K. Murugesan, D. Lakshmi, G. Ezhilarasi, P. Muthukumar “[Enrichment in power quality using power factor correction Cuk converter fed BLDC motor drive](#)” 2023 9th International Conference on Electrical Energy Systems (ICEES), IEEE., *ICEES 2023*, 2023, pp. 590–598.

15. B. Kirubadurai, G. Jagadeeswari, G. Ezhilarasi, V. Pramila, J. Vijayanand “Performance Comparison of Dynamic Responses & Speed Control of Switched Reluctance Motor Using PI & Fuzzy logic Controller” 9th International Conference on Electrical Energy Systems (ICEES), IEEE 2023.

**16. Performance Analysis of Single Stage Inverter Employing Fuzzy Controller**  
Immanuel, T.B., Rathnavel, P., Arikesh, A., ...Kavitha, S., Ezhilarasi, G. *8th International Conference on Smart Structures and Systems, ICSSS 2022*, 2022

17. D. Lakshmi, R. Zahira, C.N. Ravi, G. Ezhilarasi, “Flower Pollination Algorithm in DPS Integrated DFIG for Controlling Load Frequency” Published in 2020 International Conference on Power, Energy, Control and Transmission Systems added to IEEE Xplore DOI 10.1109/ICPECTS49113.2020.9337017, ISBN: 978-1-7281-1101-8.

### **Papers published in National Conferences:**

1. G.Ezhilarasi ,Shanmugapriya.M,S.Priya,Ezhilarasi.G, Nithiyasri.R, Joyce Mary.A,” Smart Sos Device” nternational Conference on Emerging Technologies in Power Electronics for Green and Renewable Energy Systems (ICETPRS ‘2023), ISBN number: 978-93-5777-514-4, 2023/4/5.
2. G Ezhilarasi,S.KamalnathVarma,J.Abinandhan, “Split Charging In E-Vehicles”, International Conference on Emerging Technologies in Power Electronics for Green and Renewable Energy Systems (ICETRPS-2023), ISBN number: 978-93-5777-514-4, 2023/4/5.
- 3.Dr.R.SenthilKumar,J.S.LindaJohnsana, G.Ezhilarasi” A Ground-Breaking Design Approach ForA High-Gain Zvs Self-Boosting Dc-Dc Converter”, International Conference on Emerging Technologies in Power Electronics for Green and Renewable Energy Systems (ICETPRS ‘2023), ISBN number: 978-93-5777-514-4, 2023/4/5.
- 4.G.Ezhilarasi, Rajavardhini, Divya,” Building of an automated hydroponic system” International conference on digital archiving and presentation on cultural heritage of India, 2022/8/12.
5. G.Ezhilarasi, M.Jayaraj, D.Lakshmi, R. Senthil Kumar, M.Arunkumar, “Automatic solar irrigation system using moisture sensor” International conference on technology towards sustainable development, innovation, business and exchange management, ISBN :978-93-95196-14-7,volume 7, pages 95-107.
6. Ezhilarasi G, Aslin Gijo G M, Santhosh Kumar M, Selva Narendran S,” Blind People’s Smart Stick” International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2022), ISBN: 978-93-85434-47-Page 439,2022/4/28.
- 7.G.EzhilarasiM.Sangeetha, D.Lakshmi,” Emission Reduction by Converting Conventional Bicycle to Voice Controlled Solar Electric Bicycle with Location Tracking”, International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2022), ISBN: 978-93-85434-47-1,page 170, 2022/4/28.
8. D. Lakshmi G.Ezhilarasi, Vijayakumar.R, Varadharajan.S, Arun Kumar.K,” High Frequency Sepic Converter Based Microgrid Development with Energy Management System”, International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2022), ISBN: 978-93-85434-47-1,page 167, 2022/4/28.
9. KARTHIK G. EZHILARASI, D. LAKSHMI, S BASKARAN,” Generation of Electric Power using Renewable Energy Resources”, National Virtual Conference on Institutionalization of Quality Assurance Strategies by IQAC in Higher Education Institutions, sponsored by NAAC, ISBN 97893854344216, page 41. 2022/2/15.
10. G.Ezhilarasi, R.Subanki, G.A.Priyadarshika, International e-conference on science and technology for environmental enrichment and public health. page 251, 2020/9/29.

## **Books / Book Chapters:**

### **Book Published**

1. **Principles of Engineering Management, Authors** Dr.K.Baranidharan, Dr.N.Jayanthi, Mrs.G.Ezhilarasi, Dr.N.SelvaKumar.
2. **Renewable Energy Systems for Smart Grid, Authors** Dr.D.Lakshmi, G.Ezhilarasi, Padmashini, Ashwin, Rajeswari

### **Books Chapter**

1. Editor for Book in “Internet of Things”, ESN Publications, Feb 2023.
2. Editor for book Chapter “Emerging Trends Technologies in Electrical Engineering” A Modern Approach for A Sustainable Future, ESN Publications.
3. Book chapter “Automation and Robotics in Electrical Engineering” in book titled “Emerging Trends Technologies Electrical Engineering”, ESN Publications.
4. Book chapter in “ENERGY AND POWER”, ESN Publications, Feb 2021.
5. Published Book two chapters in “Internet of Things”, ESN Publications, Feb 2023.
6. Editor for Book in “Internet of Things”, ESN Publications, Feb 2023.

**Startup:** NIL

**Resource Person:** NIL

Online courses:

Projects Applied: NIL

NITTR Courses: Complete 8 Modules