

Ms.G.KALA PRIYADARSHINI
M.E
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No:23, Lakshimi Nagar Extension,
Chromepet,
Chennai – 600 044.

Objective: To impart to the student group the knowledge of my excellence academic career, which was enhanced by a fulfilling professional career, by choosing to become a teacher. To technically shape the pupils into decent citizens as a token of my appreciation for everything society and my nation have done for me thus far.

Educational Qualification

Master of Engineering specialized in Power Electronics and Industrial Drives in Sathyabama University, Chennai, Sathyabama University.

Bachelor of Engineering in Electrical and Electronics Engineering in Jeppiaar Engineering College, Chennai, Anna University.

Year of Graduation: 2005 with 80%

XII standard in Holy Angles Matriculation Higher Secondary School, Chennai.

Year of Graduation: 2001 with 71%

XII standard in Holy Angles Matriculation Higher Secondary School, Chennai.

Year of Graduation: 1999 with 75%

Teaching Experience

Institution	Tenure	Duration	Designation
Prince Shri Venkateshwara Padmavathy Engineering College, Chennai	01.08.2012 to till date	11 Years, 6 Months	Assistant Professor
Prince Shri Venkateshwara Padmavathy Engineering College, Chennai	16.06.2006 to 01.08.2012	6 Years, 2 Months	Lecturer
EVP Engineering College	10.06.2025 to 12.09.2005	5 Months	Lecturer

Subjects of Interest

Basic Electrical and Electronics Engineering	Measurements and Instrumentation	Power Electronics
Electromagnetic Fields	Control Systems	Solid State Drives
Digital Logic Circuits	Electrical Machines	Protection and Switchgear
Electron Devices and Circuits	Transmission and Distribution	Power System Transients

Labs Handled

Basic Electrical and Electronics Engineering Laboratory

Electronic Devices and Circuits Laboratory

Control and Instrumentation Laboratory

Electrical Machines Laboratory

Power Electronics and Drives Laboratory

Engineering Practices Laboratory

Electric Circuits Laboratory

Additional Responsibilities

- Responsible for the arrangement of Guest Lectures in Department of EEE.
- Assisted in the Placement Activities of the Institution.
- Assisted admission Activities in the Institution.
- Involved actively in department NAAC and NBA works.

Participation in Faculty Development Programmes (FDPs)

- Power Electronics for Renewable Energy Systems at Tagore Engineering College - 29.12.2016 to 30.12.2016.
- Participated in the AICTE Recognized Faculty Development Programme on Tools for Engineering Research from 19/09/2022 to 23/09/2022 (One Week) at National Institute of Technology.
- MATLAB and SIMULINK basics for Hardware Projects at at NITTTR from 01/08/2022 to 05/08/2022.
- Effective Teaching Learning using Social Media at National Institute of Technology - 05.06.2023 to 09.06.2023.
- ANSYS-EM for Electrical Engineering Application at National Institute of Technology -17.07.2023 to 21.07.2023.
- Sustainable Energy Technologies and Green Mobility: Present Status and Future Prospects at National Institute of Technology between 12.09.2024 to 16.09.2024.

Research publications in SCOPUS/E Journals (Published & Indexed)

1. Advancements in Friction Stir Welding: A Comprehensive Review of Process Variables and Emerging Developments

E3S Web of Conferences This link is disabled., 2024, 491, 02026.

2. A Development of Integration of Edge Cloud Computing with 5G N/W

2024 4th International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2024, 2024, pp. 382–386.

3. Advancements in Compiler Design and Optimization Techniques

E3S Web of Conferences This link is disabled., 2023, 399, 04047.

4. A Logical Cyber Security Enabled Methodology Design for Identifying Distributed Denial of Service Attacks Using Enhanced Learning Principles

International Conference on Sustainable Communication Networks and Application, ICSCNA 2023 - Proceedings, 2023, pp. 104–109.

5. For single machine infinite bus, an adaptive regulator based on minimal control synthesis management theme algorithm

Volume 2393, Issue 1 > 10.1063/5.0079717

AIP Conference Proceedings - 2393, 020146 (2022); <https://doi.org/10.1063/5.0079717>

6. Comprehensive Performance Assessment and Power Prediction Methodology for Bifacial Photovoltaic Solar Panels in Offshore and Rooftop Applications

International Conference for Technological Engineering and its Applications in Sustainable Development, ICTEASD 2023, 2023, pp. 80–85.

7. Building Intelligent Automated Real-Time Data Analysis Systems Through Machine Learning

2023 2nd International Conference on Futuristic Technologies, INCOFT 2023, 2023.

8. A Novel Method for Attendance Marking System Using Hybrid LSTM and RNN Based Networks

7th International Conference on Electronics, Communication and Aerospace Technology, ICECA 2023 - Proceedings, 2023, pp. 577–582.

Research Publications in other Journals

- Design of Active and Reactive Power Control Management for Fuel cell based Grid Connected Systems - SSRG International Journal of Engineering Trends and Technology (IJETT) - ISSN: 2231-5381.
- Analysis and Implementation of a Bidirectional DC-DC Converter with Coupled inductor. INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY - ISSN: 2349-6002.
- Multilevel inverter with three stage hybrid cascading using PWM control methods. International Journal of Advance research and innovative ideas in education, ISSN 2395-4396.
- PSO for the management of transmission congestion in a Deregulated Power system. International Journal of Advance research and innovative ideas in education, ISSN 2395-4396.
- Solar Powered Motor Application with Z-Source Inverter. International Journal of Advance research and innovative ideas in education, ISSN 2395-4396.
- Power Quality Enhancement by Modulated Power Filter Compensator in Low Voltage Distribution wind turbines. International Journal of Innovative Research in Science, Engineering and Technology, ISSN 2347-6710.
- Investigation of Transient Stability for Variable Speed Wind Turbine driving a Permanent Magnet Synchronous Generator. International Journal of Innovative Research in Science, Engineering and Technology, ISSN 2347-6710.
- Smart Energy Management with Grid Efficiency Management and Dynamic Demand Response. International Conference at Bharath Institute of Higher Education and Research – 12.12.2024 & 13.12.2024.

Coursera – Online Certification Courses

- Build a simple app in Android studio with Java
- Electric Power Systems
- Managing Project Risks and Changes
- Project Management: The basics for success

Details of Patents filed:

SNo	Patent Application No.	Important Dates	Title of the invention	Name of the Applicants
1	202241040286A (INDIAN PATENT)	Date of Filing: 13/07/2022	Automatic Gas Leakage Detection	Ms G Kala Priyadarshini Mr M J Murali Mr K Ganapathy

		Date of Publication: 22/07/2022	and Window Opening System	Mr N M Perumal Mr S Vimal
2	202241039427A (INDIAN PATENT)	Date of Filing: 08/07/2022	Implementing the generation of electricity using Food waste based on bio-energy	Ms G Kala Priyadarshini Mr M J Murali Dr A R Aravind Mr C Santhosh Kumar Ms N Divya
		Date of Publication: 22/07/2022		
3	202441098637A (INDIAN PATENT)	Date of Filing: 13/12/2024	Desalination of Seawater using Renewable Energy	Ms. G Kala Priyadarshini Ms. S.Pooja Mr. M.Govindraj Mr.N.Surender Mr.R.Vishal
		Date of Publication: 20/12/2024		
4	202441099365A (INDIAN PATENT)	Date of Filing: 13/12/2024	Battery Management System in Electric Vehicle	Ms. G Kala Priyadarshini Ms.R.Subiksha Mr.A.Prasath Mr.S.Mohamed Nizamudeen Mr.S.Mohamed Shameen
		Date of Publication: 20/12/2024		

Membership in Professional Organizations

Organization	Type of Membership	Validity
Indian Society for Technical Education (ISTE), New Delhi.	Member (ID: LM109800)	Lifetime (From Feb 2016)
Solar Energy Society of India (SESI)	Member (AM/960/2022)	Valid upto (12.10.2023)

Languages English & Tamil (To Listen, Read, Speak and Write)

Strengths

- Have maintained a good rapport with Professors in Sathyabama University. I can bring them for guest lectures, seminars, workshops at any time.
- A Good Team Player with Effective Communication Skills. I can guide the students strongly in technical areas, develop innovative ideas and implement projects that will bring out students' creativity and technical skills.
- I can guide the students to success in competitive technical exams and GATE.

Personal Details

Date of Birth: 26th November, 1983.
 Father Name: Mr. V. Gunasekaran.
 Sex: Female.
 Marital Status: Married.

REFERENCES

- Dr. S. Subburam , Professor and Head, Department of Computer Science Engineering, New Prince Shri Bhavani College of Engg & Technology,Chennai .Contact: +91 98 40 51 4185
- Mr. M.J.Murali, Assistant Professor, Prince Shri Venkateshwara Padmavathy Engineering College,Chennai. Contact: +91-9566055736.

DECLARATION

I hereby declare that the above furnished information is true to the best of my knowledge and belief.

Date: 30.01.2025
Place: Chennai

SIGNATURE