SRI SAI RAM ENGINEERING COLLEGE
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Name: V. Malini malini.eee@sairam.edu.in	
Designation:	Assistant Professor -Sandal
Qualification:	M.E.
Area of Specialization:	Power Systems Engineering
Experience:	Teaching- 17Years
	Industry/Polytechnic: Nil
Number of Workshops/ Conferences/Seminar/ Online Courses/FDP Attended:	Faculty Development Program –38 International Conference –15 National Conference – 3 National Seminar -1 Online -Courses- 21 Training -1 Workshop - 3 Webinar-3
Publication:	**Journal:** National Journal:2 International Journal: 4
	Conference: National Conference: 3 International Conference: 15
NITTT MODULES	Module1, Module2, Module3, Module4 Module5, Module6, Module7 and Module 8
Research Guidance:	----
General:	---
Staff Achievement	1. Plan, Design, Commissioning, and Installation of the Electrical Machines I & II Lab (SPCE) 2. Plan, Design, Commissioning and Installation of the Control and Instrumentation Lab (SPCE) 3. Plan, Design, Commissioning, and Installation of the Power Electronics Lab (SPCE)

Professional Experience:

Sl. No	Name of the Post	Employer	Period of Employment				Teaching/ Industrial/ Research
			From	To	Years	Months	
1.	Senior Lecturer	Sri Padmavathy College of Engineering (SPCE)	Jun-1999	Jun-2004	5	0	Teaching
2	Lecturer	Tagore Engineering College (TEC)	Dec-2007	May-2008	0	6	Teaching
3	Assistant Professor Sandal	Sri Sairam Engineering College	May-2013	Till Date	12	1	Teaching

MEMBERSHIP DETAILS:

ISTE Membership No (Life Member**): LM 131488**
IEEE Membership No   :98072286

ACADEMIC ACHIEVEMENTS:

- Achieved 100% result in Power Quality in the academic year 2013 - 2014.
- Achieved 100% result in Special Electrical Machines in the academic year 2015 - 2016.
- Achieved 100% result in High Voltage Engineering, Electronic Devices and Circuits and Power System transients in the academic year 2016 - 2017.

WORKSHOP:

1. Attended National workshop on "**Research Methodologies in Deregulated Power System**" at Easwari Engineering College on 1st November 2011.
2. Attended one day workshop on **"Intellectual Property Rights &Innovations"** on 20.07.2019.
3. Attended one day workshop on **"Ideathon and Proposal Writing Workshop"** organized by Rural Technology Action Group, IIT Madras on 19.12.2020.

NATIONAL SEMINAR, TRAINING & WEBINAR:

1. Attended "**Modelling and Simulation of Electrical Systems**" in a AICTE Sponsored Three days National Seminar at Sri Venkateshwara College of Engineering, Sriperumbudur, From 13th March to 15th March 2003.
2. Attended training program on "Arduino and Raspberry Pi in IoT Environment" from 25.07. 2018 to 27.07.2018.
3. Attended webinar on "Covid -19: Financial Planning for Working Professionals" conducted by Sri Sairam Engineering College, West Tambaram, Chennai-44, on 10.06.2020.
4. Attended Webinar on "IoT Design Methodologies" 19.11.2022

ONLINE COURSES:

1. COVI19-Contact Tracing – Coursera

2. Motor and Motor Control Circuits- Coursera

3. AI for Everyone - Coursera

4. Spreadsheets for beginners using Google Sheets- Coursera

5. Natural Gas- Coursera

6. Electric Power Systems -Coursera

7. Introduction to Google Docs -Coursera

8. Quantum Mechanics- Coursera

9. The Suatainable Development Goals-A Global Transdisciplinary Vision for the Future - Coursera

10. Safety in Utility Industry- Coursera

11. Wind Energy -Coursera

12. Completed **UDEMY – "Deep Learning A-Z hands - On Artificial Neural Networks"** on November 2019.

13. NPTEL online certification for the course "**Introduction to Smart Grid**" from Aug 2018 to Sep2018**.**

14. NPTEL online certification for the course "**Recent Advances in transmission Insulators**" from Jan 2021 to Feb 2021

15. NPTEL online certification for the course "**Intellectual property Rights and Competition Law**" from Aug 2022 to Sep 2022**.**

16. NPTEL online certification for the course **"Python for Data Science"** from Jan-Feb 2024 .

17. NPTEL online certification for the course **"Data Science for Engineers "** July to Sep 2024.

18. NPTEL online certification for the course **"Learning Analytic Tools"** from July to Oct 2024.

19. NPTEL online certification for the course **"Soft Skills"** from July 2024 to Oct 2024.

20. NPTEL online certification for the course "Artificial Intelligence: Knowledge Representation And Reasoning**"** from Jan 2025 to Apr 2025

21. NPTEL online certification for the course "Introduction to Machine Learning" from Jan 2025 to Apr 2025

PATENT:

1. "An Intelligent Smart Street Light System with Safety Technology and Environment Monitoring" application number 202041047228on 29.10.2020.

2. "High Secured Remote Patient Monitoring System Using IoT, Cloud Computing and AI", application number 202141044795 on 15.10.2021.

3. "Motor And Battery Overheat Detection in Electric Vehicles ",application number 202341070533   published

BOOK / CHAPTER PUBLICATION:

1. Chapter published in Recent Trends in Engineering and Technology **"A Perspective Approach to the Challenges and Solutions to Smart Grid Technological Issues"** ISBN-9788194714989.

FACULTY DEVELOPMENT PROGRAMME:

1. Attended Faculty Development Program in "**RE-Engineering Teaching Communication Skills**" conducted by Anna university at College of Engineering, Guindy, From 9th Feb to 10th Feb 2004.
2. Attended Faculty Development Program in **"MATLAB Simulation of Power Electronic Circuits"** conducted by Sri Sairam Engineering College, West Tambaram, Chennai-44, From 21st Apr to 23rd Apr 2015.
3. Attended Faculty Development Program in **"Digital Simulation of Power Electronic Circuits Through PSPICE Software"** conducted by Sri Sairam Engineering College, West Tambaram, Chennai-44, From 15thJuly to 18th July2015.
4. Attended Faculty Development Program in **"Electrical Simulation Software" conducted** by Sri Sairam Engineering College, West Tambaram, Chennai-44, From 06th Nov to 10th Nov 2017.
5. Attended Faculty Development Program in **"Analysis of Power System Protection and Automation – Current Scenario"** conducted by KCG College of Technology, Karapakkam, From 26th Nov to 09th Dec 2017
6. Attended Faculty Development Program in **"Power Electronics for Renewable Energy Systems"** conducted by Tagore Engineering college, Chennai, From 18th Jan to 20th Jan 2018.
7. Attended 8 weeks **NPTEL** online certification course in **"Introduction to Smart Grid"** from August 2018 to Sep 2018.
8. Attended Faculty Development Program in **"Engineering Teaching Pedagogy and Teaching Learning Process"** conducted by Sri Sairam Engineering College, West Tambaram, Chennai-44, From 03rd Dec to 07thDec 2018.
9. Attended ISTE sponsored Faculty Development Program in **"Process Modelling and Control"** conducted by Sri Sairam Engineering College, West Tambaram, Chennai-44, From 11th June to 15thJune 2019.
10. Attended Faculty Development Program in **"Embedded Control System & Communication Networks"** conducted by SRM Valliammai Engineering College, Kattankulathur, From11thMay to 15thMay 2020.
11. Attended two weeks Faculty Development Program in **"Recent Innovations in Electrical, Electronics, Instrumentation, Automation & Teaching Pedagogy"** conducted by Sri Sairam Engineering College, West Tambaram, Chennai-44, From 18th May to 30th May 2020.
12. Attended Faculty Development Program in **"Next Generation Intelligence"** conducted by St. Peter's Institute of Higher Education and Research From 20thMay to 25thMay 2020.
13. Attended ATAL Online Faculty Development Program in **"Electric Vehicles"** conducted by All India Shri Shivaji Memorial Society's College of Engineering, Pune, From5.10.2020 to 9.10.2020.
14. Attended Short Term Training Program on **"Modelling & Simulation of Renewable Energy Systems using MATLAB"** conducted by Misrimal Navajee Munoth Jain Engineering College from 2.11.2020 to 7.11.2020 (Phase II).
15. Attended ATAL Online Faculty Development Program in **"Green Technology & Sustainability Engineering"** conducted by Gautam Buddha University , From 19.01.2021 to

23.01.2021.

16. Attended 4 weeks **NPTEL** online certification course with **ELITE** in **"Recent Advances In Transmission Insulators"** from Jan 2021 to Feb 2021.
17. Attended ATAL Online Faculty Development Program in **"Role of Renewable Energy Sources in Power System"** from 05.07.2021 to 09.07.2021 at Government Engineering College, Patan.
18. Attended ATAL Online Faculty Development Program in **"Recent Trends in Powe System Operation and Control"** conducted by Government College of Engineering, Nagpur, From12.07.2021 to 16.07.2021.
19. Attended Faculty Development Program in **"Inculcating Universal Human Values in Technical Education"** organized by All India Council for Technical Education (AICTE) from26 July, 2021 to 30 July, 2021.
20. Attended ATAL Online Faculty Development Program in **"Electric Charging Station for Vehicles"** from 21/02/2022 to 25/02/2022 at Government Engineering College, Thrissur**.**
21. Attended Faculty Development Program in **"MATLAB and SIMULINK basics for HardwareProjects"** organized by NITTR, Chandigarh, from 01/08/2022 to 05/08/2022.
22. Attended Faculty Development Program in **"Intellectual property Rights and Competition law"** organized by NPTEL –AICTE, Aug 2022 to Sep 2022.
23. Attended ATAL Blended/Hybrid Faculty Development Program on "**Power Electronics Applications to Renewable Energy Systems, Electric Vehicles, and Intelligent Control"** from 2022-10-10-2022-10-15 to 2022-10-17-2022-10-21 at Sri Sai Ram Institute ofTechnology.
24. Attended Faculty Development Program in **"Power Electronics for Renewable Energy Applications"** organized by NITTR, Chandigarh, from 31/10/2022 to 04/11/2022.
25. Attended Faculty Development Program in **"Future Generation Communication and Networking "** organized by Jerusalem College of Engineering, from 02/01/2023 to 07/01/2023
26. Attended Faculty Development Program in **"Electric Vehicles Drive System"** organized by Jerusalem College of Engineering, from 27/02/2023 to 04/03/2023.
27 Attended Faculty Development Program in **"Intellectual property Rights and Competition law"** organized by NPTEL –AICTE, Aug 2022 to Sep 2022.
28. Attended Faculty Development Program in **"Accreditation And Outcome Based Learning"** organized by NPTEL –AICTE, Aug 2023 to Oct 2023.
29. Attended Faculty Development Program in **"Python for Data Science"** organized by NPTEL –AICTE, Jan 2024 to Feb 2024.
30. Attended Faculty Development Program in **"Data Science for Engineers "** organized by NPTEL –AICTE, July 2024 to Sep 2024.
31. Attended Faculty Development Program in **"Learning Analytic Tools"** organized by NPTEL –AICTE, July 2024 to Oct 2024.
32. Attended Faculty Development Program in **"Soft Skills"** organized by NPTEL –AICTE, July 2024 to Oct 2024.
33. Completed ATAL Sponsored FDP on **"Recent Trends and Advancement in Integrated Power Systems"** BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY from 16.12.2024 to 21.12.2024
34. Completed ATAL Sponsored FDP on **"AI in Hydrogen and Electric Powered Vehicles"** in BS Abdur Rahman Crescent Institute of Science and Technology from 9.12.2024 to 14.12 2024
35. Completed FDP on **Power System Design & Analysis** using DIgSILENT Power Factory Software
36. Completed FDP on **Microgrid System Design & Simulation** using HOMER Pro & HOMER Grid Software
37. Attended Faculty Development Program in **"Artificial Intelligence: Knowledge Representation And Reasoning"** organized by NPTEL –AICTE , Jan 2025 to Apr 2025
38. Completed Faculty Development Program on **"Advanced Power Electronics & Intelligent Control for Sustainable Electric Mobility and Renewable Energy Systems"** Sri Sai Ram Institutions of Technology held from 05.05.2025 to 09.05.2025.

Industrial Training

Faculty Industrial Training Program 6days at **"I.P.L.Products"**,Sidco Industrial Estate, Thirumudivakkam,chennai-600132, during the period02.03.2022 to 08.03.2022

Paper Presented in National Conference :

1. Paper Presented on "**Solution for OPF-SC by a New Improved Bacterial Foraging Method using Bi-level optimization Technique**" in the National Conference on Recent Trends in Electrical Science and Technology conducted by **IET-SSIET** at Sree Sastha Institute of Engineering and Technology on 15th Feb 2013.

2. Paper Presented on "**Solution for OPF-SC by a New Improved Bacterial Foraging Method solving Unit Commitment Problems**" in a National Conference on SMART Advancements in Green Energy at Sri Muthukumaran Institute of Technology on 18th & 19th April 2013.

3. Paper Presented on "**Harvesting Electrical Energy from Human Locomotion using Piezoelectric Transducer**" in a Sixth National Conference on "Technological Advancements in Power System & Power Electronics Engineering" at Easwari Engineering College on 13th April 2017.

INTERNATIONAL CONFERENCE:

1. Paper Presented on "**IOT BASED SMART GARBAGE ALERT SYSTEM AND PUBLIC AWARENESS INTIMATION USING WIRELESS SENSOR NETWORK**" in First International Conference on POWER, ENERGY, CONTROL AND TRANSMISSION SYSTEMS- 2018 at by Sri Sairam Engineering College, West Tambaram, Chennai-44, From 22.02.2018 & 23.2.2018.

PUBLICATIONS:

INTERNATIONAL CONFERENCE:

1.L. Kurinjimalar, N. Anitha, V. Malini, T. N. Hariprasad and S. K. Sundaram, "Screw Propelled Autonomous Amphibian Waste Collector," *2021 4th International Conference on Computing and Communications Technologies (ICCCT)*, 2021, pp. 391-395,doi: 10.1109/ICCCT53315.2021.9711886.

2. **V.Malini** "Design and Development of PV Powered Intergraded DC - DC Converter Fed Multilevel Inverter for Standalone Application" ESTCON 2022 in Malaysia on December 2022.

3. **V.Malini** "Augmented Reality-Based Restaurants"IEEE InternationalConference on Power, Energy, Control and Transmission Systems in December 2022

4. **V.Malini** "Hand Gesture Controlled Wheelchair" IEEE International Conference on Power, Energy, Control and Transmission Systems in December 2022

5. **V.Malini** "Blink to speak an Assistive Device for Paralyzed People" IEEE International Conference on Power, Energy, Control and Transmission Systems in December 2022

6. **V. Malini** "GSM Based Power Meter Billing with Load Control" IEEE International Conference on Power, Energy, Control and Transmission Systems in December 2022

7. **V. Malini** "Smart Energy Meter with Cloud Connectivity" IEEE International Conference on Power, Energy, Control and Transmission Systems in December 2022

8. **V. Malini** "PIR motion Capture Security System" IEEE International Conference on Power, Energy, Control and Transmission Systems on in December 2022.

9. **V.Malini** "RFID Card Based Petrol Pump Automation System"2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)

10. **V.Malini "**MoodVue: A Smart Mirror with Emotional Intelligence"2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS)

11. **V.Malini** "Farm Aid Metrix" IEEE International Conference on Power, Energy, Control and Transmission Systems 2024

12. **V.Malini** "Fault Detection of Internal Wiring Using Augmented Reality" IEEE International Conference on Power, Energy, Control and Transmission Systems 2024

13. **V.Malini** "Induction Motor Protection System" IEEE International Conference on Power, Energy, Control and Transmission Systems 2024

14. **V.Malini** "Smart Delivery Machine With RFID" IEEE International Conference on Power, Energy, Control and Transmission Systems 2024

15. **V.Malini** "Cascaded Neural Network Controller Development for Electric Vehicle Energy Management" IEEE International Conference on Power, Energy, Control and Transmission Systems (ICPECTS) 2024.

NATIONAL JOURNAL:

1. Paper published in UGC care journal on "**Power On-Demand Only Ebike With Extended Range And Torque Boost Technology**" ISSN: 2394-3114, Vol 40 issue 3 (s1) February 2020.
2. Paper published in UGC care journal on "**Subterranean Cable Fault Locater Using Iot**" Ilkogretim Online - Elementary Education Online, 2020; Vol 19 (Issue 2): pp. 1856-1862

INTERNATIONAL JOURNAL:

1. **V.Malini** published a paper titled "**IoT Based Smart Garbage Alert System Using Wireless Sensor Network for Environmental Hygiene** " in IJEAT ISSN: 2249-8958, Volume -8, Issue -6, in Aug 2019.

2. **V.Malini** published a paper titled **"FOPID Controlled Modified Coupled Inductor based SEPIC Converter with Reneveble Energy System"** in TEST Engineering & Management ISSN: 0193- 4120, Vol - 81, in Nov- Dec 2019.

3. **V.Malini** published a paper titled **"Cloud Based Health Care Monitoring With Prompt Notification Using Connected Devices"** in European Journal of Molecular Clinical Medicine" ISSN: 2515-8260,, Vol -07, Issue -06, in 2020.

4. **V.Malini** published a paper tiltled **"IoT Based Toilet Cleaning ROBOT – TOILBOT"** in the Journal of Propulsion Technology,ISSN: 1001-4055, 2023.

NITTT MODULES Completed

Module 4 : Instructional Planning and Delivery Finished on September 2021

Module 1 : Orientation Towards Technical Education and Curriculum Aspects, July 2022

Module 3 : Communication Skills, Modes & Knowledge Dissemination, July 2022

Module 5 : Technology Enabled Learning & Life Long Self Learning , July 2022

Module 2: Professional ethics and Sustainability,Feb 2023

Module 6: Student Assessment and Evaluation, Feb 2023

Module 7: Creative Problem Solving , Innovation and meaningful R&D, Feb 2023

Module 8: Institutional Management and Administrative Procedures, Feb 2023

OTHER ACTIVITIES:

1. Engineering practices Lab In-charge, Sri Sairam Engineering. College.
2. Handled session in ISTE sponsored Faculty Development Program **"Renewable Energy Systems"** held from 22.07.2019 to 26.07.2019 at Sri Sairam Engineering College, Chennai.
3. Actively involved in all Departmental activities like industrial visit, training program.
4. Conducted a **"Training Session on C Coding"** for EEE students of Sri Sairam Engineering College, on 05.02.2020
5. Conducted a Webinar on **"Her Campus with Equality"** - Alumni talk for EEE Girls Student of Sri Sairam Engineering College on 25.07.2020.

6. Conducted a **"Three days Training Session on C-coding"** for EEE students of Sri SairamEngineering College, from 9.10.2020 to 11.10.2020

7. Co-ordinating students to get intern in industry –IPL transformers , Thirumudivakkam.

8. Cultural coordinator and IQAC co-ordinator for my Department .

9. Being an Alumni Co-ordinator conducting many alumni series program for our students to connected and to learn the industrial requirements.

10. Organized a non-technical event **"SKILLSPORIUM 1.0" - Skill Development Club Event** , on 15.02.2021, for the students of Sri Sairam Engineering College .
11. Co-ordinated **"Hands on Training On design of BLDC Motors"** for EEE students on 22.12.2022