


Sri Sai Ram Engineering College

Department of Electrical and Electronics Engineering

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| 1.NAME:DR.L.KURINJIMALAR |  |
| 2.DESIGNATION | Assistant Professor Gr-III |
| 3.QUALIFICATION | M.E ,Ph.D. |
| 4.AREA OF SPECIALIZATION | Power Electronics and Drives |
| 5.EXPERIENCE: | Teaching: 13 years |
| 6.NO.OF WORKSHOP / SDP / FDP attended: | No. of workshops attended : 9 No. of FDP attended : 20 |
| 7.PUBLICATIONS : | CONFERENCE National : 3 International : 10 |
| 8. RESEARCH GUIDANCE: | Nil |
| 9. GENERAL | Class Coordinator, |

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| | Industrial Visit coordinator, Publication Cell – SCOPE Member, M.E Coordinator, IEEE Solid State Circuits Society –SEC Advisor. |
| 10. STAFF ACHIEVEMENTS: | Achieved 100% result from 2011-2018. Organized and attended Workshops and Seminars. Convenor for Symposium 22. Delivered Hands-on training for students in PCB design, Motor Design Software. |

EXPERIENCE:

| Name of the Employer | Position Held | Period | |
|-----------------------------------|---------------------|--------|-----------|
| | | From | To |
| SRI SAIRAM ENGINEERING COLLEGE | Assistant Professor | 2010 | Till Date |
| THIRUMALAI COLLEGE OF ENGINEERING | Lecturer | 2006 | 2007 |

AREAS OF INTEREST

- Power Electronics and Drives
- Electrical Machine Design
- Renewable Energy Systems
- Electric Vehicle

SOFTWARE SKILLS

- MATLAB simulation software
- Motor Design Software Tools-MAGNET,MOTORSOLVE,
MOTORCAD,ANSYS.

WORKSHOP/FDP/STTP

1. Attended one day workshop on “POWER ELECTRONICS AND DRIVES” conducted by VI MICROSYSTEMS.
2. Attended pre-conference tutorial on “POWER SYSTEMS , POWER ELECTRONICS AND DRIVES” at S.S.N COLLEGE OF ENGINEERING.
3. Attended DRDO Sponsored “NATIONAL WORKSHOP ON ADVANCES IN DESIGN AND CONTROL OF PERFORMANCE ENHANCEMENT IN PERMANENT MAGNET MOTOR” at PONDICHERRY ENGINEERING COLLEGE.
4. Attended “NATIONAL WORKSHOP ON MODELING AND CONTROL OF WIND ENERGY CONVERSION SYSTEMS” at RMK ENGINEERING COLLEGE.

5. Attended “NATIONAL SEMINAR ON EXPLORING RESEARCH AREAS IN HARNESSING WIND ENERGY” at VELLORE INSTITUTE OF TECHNOLOGY.
6. Attended ONE DAY NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAMME ON "APPLICATIONS OF FACTS IN POWER ELECTRONICS & POWER SYSTEM" at SRI SAIRAM ENGINEERING COLLEGE.
7. Attended ONE DAY FACULTY DEVELOPMENT PROGRAMME ON “POWER FLOW SOLUTIONS AND DEMO ON CYME POWER ENGINEERING SOFTWARE “ at SRI SAIRAM ENGINEERING COLLEGE.
8. Attended “Workshop on CONTROL OF POWER CONVERTERS WITH FPGA USING MATLAB XILINX INTERFACE” at S.S.N COLLEGE OF ENGINEERING.
9. Attended “National Workshop on ELECTRTOMAGNETIC DESIGN AND ANALYSIS OF ELECTRICAL MACHINES” at S.S.N COLLEGE OF ENGINEERING.
10. Attended Faculty Development program on “MATLAB APPLICATIONS IN ELECTRICAL ENGINEERING” at Sri Sai Ram Engineering College, Chennai.
11. Attended Short-Term Training Program on “MATLAB SIMULATION OF POWER ELECTRONIC CIRCUITS” at Sri Sai Ram Engineering College, Chennai.
12. Attended Faculty Development program on “DIGITAL SIMULATION OF POWER ELECTRONIC CIRCUITS THROUGH P-SPICE SOFTWARE” at Sri Sai Ram Engineering College, Chennai.
13. Attended Faculty Development program on”PROGRAM ON ELECTRICAL SIMULATION SOFTWARE” at Sri Sai Ram Engineering College, Chennai.
14. Attended Faculty Development Training Program on “Power System Transients” at Loyola-ICAM college of Engineering and Technology,from 16.11.2018 to 29.11.2018.
15. Attended ISTE Sponsored Five Days FDP In Association With Skillkora Labs On “Artificial Intelligence” From 5th Dec To 11th Dec 2019 held at Sri Sairam Engineering

College , Chennai Attended the ISTE Sponsored Faculty Development programme on “Renewable Energy Systems” held from 22nd to 26th July 2019 at Sri Sairam Engineering College , Chennai

16. Attended Faculty Development Training Program on “Modeling Simulation Control and applications of Power Electronic Converters” Conducted by QISCET on 25.11.2019-29.11.2019.
17. Attended AICTE Sponsored Two week’s Faculty Development programme on “Advanced Power Electronic Applications On Power Systems” held from 19th to 31st October 2020 at Sasi Institute of Technology and Engineering , Tadepalligudem
18. Attended and Completed AICTE Sponsored ATAL Faculty Development programme on “Energy Engineering” held from 17th to 21st October 2020 at Velammal Engineering College
19. Attended Online Workshop on Electromagnetic and Thermal Simulation of PMSM (IPM) Motor on May &, 2020 by Altair(ANZ ASEAN India).
20. Attended 2 weeks AICTE sponsored ATAL FDP on Digital Twin in Electric vehicles at AVIT in from 12-09-2022 to 23-09-2022.
21. Attended the Faculty Development Programme (FDP) on ‘Renewable Energy Systems Laboratory’ organized by the Department of Electrical and Electronics Engineering, SSN College of Engineering, during 26th – 29th September, 2022.
22. Completed AICTE sponsored six days online short term Training Program (STTP-Phase -3) on “Research confront and document typesetting using LATEX :202X”, organized by department of Electronics and Communication Engineering, ABES Institute of Technology, Ghaziabad from 22-02-2021 to 27-02-2021.

PUBLICATIONS:

- Speed control of permanent magnet brushless dc motor using digital signal processor National Conference On Emerging Technologies In Electrical Engineering (Nceee-10) By Valliammai Engineering College.
- Design Of Fuzzy Based Pi Control For Speed Control Of Brushless Dc Motor, National Conference On Emerging Technologies In Energy

Systems And Control -2010 By Federal Institute Of Science And Technology.

- Indirect vector control of Induction motor using Fuzzy logic controller, National conference On Technological Advancements In Power Systems And Power Electronics Engineering, Tapspee-2012, Easwari Engineering College, April 2012
- Isolated Bidirectional Half Bridge Dc-Dc Converter With A Flyback Snubber And Two Passive Capacitor-Diode Snubber, International Journal For Trends In Engineering & Technology Volume 6 Issue 1 – Issn: 2349 – 9303, Sri Sairam Engineering College, June 2015.
- Performance Analysis of Spoke type BLDC motor considering Rotor Geometric Modifications, International Conference on computation of power, Energy Information and communication, Adhiparasakthi Engineering College, April 2016.
- Design Analysis of Spoke Type BLDC Motor for Spinning Mill Application, International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 4, Issue 3, ISSN (Online) 2394-2320, March 2017.
- A Solar PV Water Pumping System using a ZETA Converter and Buck Boost Converter in BLDC Motor, International Conference on Science and Innovative Engineering .ISBN 978-81-904760-9-6, April 2017.
- Power quality research on three-phase Pfc rectifier (Minnesota rectifier) International Journal of Engineering and Advanced Technology ISSN : 2249 – 8958 Volume-8, Issue-6. DOI:10.35940/ijeat.F9350.088619, August 2019.
- Internet of things on 230kv/400 Kv switchyard operation by SCADA method International Journal of Engineering and Advanced Technology ISSN : 2249 – 8958 Volume-8, Issue-6. DOI:10.35940/ijeat.F9350.088619, August 2019.
- Kurinjimalar, L., Balaji, M., Prabhu, S., Umadevi, R., (2021) Analysis of Electromagnetic and Vibration Characteristics of a Spoke Type PMBLDC Motor, Journal of Electrical Engineering and Technology,, 2021, 16(5), pp. 2647–2660.
- 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.
- Porselvi T; Srividhya S; Kurinjimalar L; Meenakshi B; Sivaprasad R; Sai Ganesh CS, "Intelligent Wireless Charging Station for EVs with Integrated PV Power Grid System," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-3, doi: 10.1109/ICPECTS56089.2022.10047577.

- B. Meenakshi, T. Porselvi, M. Deepa, R. SivaPrasad, L. Kurinjimalar and V. Selvapriya, "Grid connected single-stage multiport inverter with two independent source," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-4, doi: 10.1109/ICPECTS56089.2022.10047299.
- L. Kurinjimalar, S. Pooja, R. Sivaprasad, B. Meenakshi, J. S. Priya and T. Porselvi, "Design and Analysis of Fifteen Level Inverter for Renewable Applications," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-4, doi: 10.1109/ICPECTS56089.2022.10047591.
- J. S. Priya, K. B. S. Kumar, T. Porselvi, S. Thennarasu, M. Hemalatha and L. Kurinjimalar, "Smart Wearable for Pulmonary Fibrosis Patient Monitoring with Oxygen Saturation Prediction," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-6, doi: 10.1109/ICPECTS56089.2022.10047080.
- Kurinjimalar L, Chandhrasekaran G, Jeevanandham S, Prathish Kumar U, Hemalatha M, Ranjith M, "Analysis of Vehicle to Grid (V2G) Integration in Renewable based Micro grid," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-4, doi: 10.1109/ICPECTS56089.2022.10047328.
- V. Malini, R. K. Kumaresh, L. Kurinjimalar, K. Prathibanandhi, A. Venkateshwaran and S. J. K. Harish, "Smart Energy Meter With Cloud Connectivity," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-4, doi: 10.1109/ICPECTS56089.2022.10046989.
- Malini V, Jeevanandham S, Gokul P, Prathibanandhi K, Kurinjimalar L, "Blink To Speak an assistive device for Paralyzed people," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-3, doi: 10.1109/ICPECTS56089.2022.10047199.
- M. Hemalatha, T. Porselvi, R. Deepashri, R. Jeyashri, L. Kurinjimalar and J. ShaliniPriya, "An Intelligent Reading Aid for Stone blind Individuals," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-4, doi: 10.1109/ICPECTS56089.2022.10047744.
- R. Sivaprasad, T. Mahalakshmi, B. Meenakshi, T. Porselvi, L. Kurinjimalar and J. RManasa, "Modified Bridgeless Landsman Converter Fed EV Battery Charger Power Factor Improvement," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-6, doi: 10.1109/ICPECTS56089.2022.10046874.

- Industry Internship on “**Design and Development of Dual Regulated Smart DC Power Supply**” from 25.01.2021 to 6.02.2021 conducted by Anand Techno creations.
- **Under gone Faculty Industrial training at IPL products PVT Ltd, SIDCO Industrial Estate, from 21.02.2022 to 26.02.2022.**

Entrepreneur Development program

- Attended, **4 Weeks Women Entrepreneurship Development Program (WEDP)** sponsored by Department of Science and Technology (DST) conducted by **IITM HTIC MedTech Incubator** virtually from 01-03-2021 to 27-03-2021.

Massive Open Online Courses

1. Participated in online course on “**Understanding of Coastal ocean processes using Remote Sensing and Numerical Modelling**” conducted by Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun during **21-09-2020 to 25-09-2020**.
2. Completed online Course “**Structuring Your article Correctly**” on 0.103.2021 conducted by Elsevier Researcher Academy.
3. Completed NPTEL three credit course “**Accreditation For Undergraduate Engineering Programmes**”, January to March 2021.
4. Attended the Virtual Industry visit organized by PALS M/s SIEMENS GAMESA conducted on 15th December 2021.

Chapter Contribution

5. “**Importance of Face Mask and its role in the Covid-19 Pandemic**” Chapter has been published in book entitled **New Approaches in Commerce, Economics, Engineering, Humanities, Arts, Social Science and Management: Challenges Opportunities**, by Global Multidisciplinary Research and Academic Foundation” E-ISBN:978-93- 87865- 44-0.

Patent

1. Published a patent based "SCREW PROPELLED AUTONOMOUS AMPHIBIAN WASTE COLLECTOR",Application No.202241074784 A (Date of filing of Application :23/12/2022). Publication Date : 30/12/2022
2. Published a patent based on "AN AUTOMATIC WET GRINDING APPARATUS", Appln no. 202241075488, dated: 26/12/2022.
3. "High Secured Remote Patient Monitoring System Using IoT ,Cloud Computing and AI", published in the Official Journal of the Patent Office No.202141044795 on 15/10/2021.
4. "A Smart Bill Generator In A Digitalized SuperMarket ", published in the Official Journal of the Patent Office No.202041045439 on 30/10/2020.

Professional Bodies

- IEEE Member since 2021
- ISTE member since 2020
- Faculty Advisor for IEEE-Solid State Circuits Society Student Branch Chapter.

REVIEWER:

ISA Transactions

Circuit World

ICIET - 2022

Awards and Certificates

- Project entitled as "Screw propelled autonomous amphibian waste collector " has been selected for INSC award under Student Project Program 2021.
- Appreciated as mentor for NPTEL online certification course on "Physics for Renewable Energy Systems" from July to December 2022.

Resource person

- Served as Resource person for value-added training program on "Design and simulation softwares" from 28.09.2020 to 30.9.2020 for students at Sri Sairam Engineering college.

Events Organised

- Co-ordinated the Hands on Training on " AutoCAD software for Engineering Applications" on 26.03.2021 for the students of Automobile Club at Sri Sairam Engineering college.
- Conducted a webinar on "Coding training in C programming" from 04.02.2021 to 06.02.2021 for students at Sri Sairam Engineering college.
- Conducted a value-added training program on "TANNER T-SPICE SIMULATION FOR PCB DESIGN", from 24-02-2020 to 26-02-2020 for students at Sri Sairam Engineering college.

Events - IEEE Solid State circuit society

- Webinar on "An introduction to Integrated Circuits,a gateway to Embedded systems" on 11.03.23
- Workshop on "Overview of EV with simulation" on 4.03.2023
- QUIZ ON SOLID STATE CIRCUITS 20.12.2022