

**SRI SAI RAM ENGINEERING COLLEGE****DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

1	<b>Mrs.R.KOTHAI</b>	
2	Designation	Assistant Professor
3	Area of Specialization	Power Electronics & Drives
4	Experience	Teaching: 5 Years Industry: NIL
5.	No. of Workshop, FDP, Seminar Attended	Workshop: 4 FDP: 23 STTP:7
6.	Publications And Patents	International Conferences:7 International Journals:1 BOOKS PUBLISHED :1 IEEE Digital Library: 8 IEEE Conferences: 8 Patents Published: 2
7.	Professional Membership	IEEE Membership- <b>Member-98086822</b> IEEE Power and Energy society <b>Professional Member in:</b> IEEE Smart Cities IEEE SIGHT IEEE Smart Grid Community
8.	Research Guidance	NIL
9.	General :	<ul style="list-style-type: none"><li>● COLLEGE INTERNSHIP- SCOPE- EXECUTER</li><li>● DEPARTMENT SCOPE - EXECUTER</li><li>● DEPARTMENT WOMEN SPORTS INCHARGE</li><li>● IEEE SSIT SCOPE -EXECUTOR.</li><li>● OVERALL COLLEGE INTERNSHIP SCOPE -EXECUTOR</li><li>● OVERALL COLLEGE CLUBS AND CELL SCOPE-EXECUTOR.</li></ul>

## EXPERIENCE

Name of the Employer	Position Held	Period	
		From	To
AVC college of engineering, Mayiladuturai.	Assistant professor	2011	2012
Sri Sai Ram Engineering College, Chennai.	Assistant professor	2021	Till date

### PATENT PUBLISHED:

Intellectual Property Rights India

S.NO	TITLE	YEAR
1.	Wireless Intrusion Detection Device	2023
2.	Automatic AC Gas Sensing And Filling System For Cars Intellectual Property Rights India	2024

### BOOKS PUBLISHED:

1. Recent Advances in Energy Technologies-2023.

### INTERNATIONAL:

S.NO	TITLE	CONFERENCE	YEAR
1.	Hybrid Boost Converter for AC and DC Loads Using PV System	International Conference on Energy and Materials Technologies (ICEMT-2021)	2021
2.	Next Generation digital healthcare cloud folder for patients	International conference on innovation in Robotics , Intelligent Automation and Control	2022
3.	Design and Implementation of Electric Cycle	IEEE Power, Energy,Control and transmission systems	2022
4.	Hand gesture controller Wheel chair	IEEE Power, Energy,Control and transmission systems	2022
5.	Power Scavenging using Darrieus Type vertical axis wind turbine on High Ways	IEEE Power, Energy,Control and transmission systems	2022
6.	Animal Intrusion Detection And CropProtection Using Yolo And Sound Devices	Intelligent Computing and Control for Engineering and Business Systems	2023
7.	Design and Development of An Estimate Controller for a Fusion Tank System	International Conference on Future Trends in Smart Communities, ICFTSC 2022	2022

### NATIONAL

S.NO	TITLE	CONFERENCE	YEAR
1.	A non isolated Bidirectional Active	MAM College of Engineering	2011

	Clamped DC-DC Converter	,Trichy.	
2.	Cutting Edge Technologies in Power Conversion &Industrial Drives	Bannari Amman Institute of Technology, Erode	2011
3.	Design for a converter	Vellalar College of Engineering Erode	2011
4.	Negative Sequence Compensation Technique for DFIG Based Wind Energy Systems	SNS College of Technology	2011

**FUNDED PROJECT:**

1.“BLUE TRACK WATER MONITORING AND MANAGEMENT SYSTEM” received a grant of \$6508 (Rs 5,66,586.00) from 2025 IEEE HTB Tech4Good.

**COURSES COMPLETED:**

1. Artificial Intelligence and Edge Computing—IITM PARVATAK.
2. UHV-III FDP organised by All India Council for Technical Education (AICTE) at SRM Institute of Science and Technology, Kattankulathur, from 1st May to 8th May.
3. Participated in a 40-hour online faculty development program on the deployment of artificial intelligence and data science in developing electrical engineering applications from 04- 17 th August 2022.

**EVENTS ORGANIZED:**

- 1.“Hands-on training on design modeling using Fusion 360 software," 17th October 2024, 9:00 AM–4:00 PM at EEE Computer Center, IEEE HKN NU ETA CHAPTER.
2. MSME Hackathon 4.0 was held online on 4th Nov 2024 through Google Meet from 6pm to 8pm.
3. The innovation and entrepreneurship outreach program. 14-02-2025, held at West Tambaram School.
4. Artificial Intelligence: The Next Wave of Growth, 7/4/2025, 1:30-3:00 pm, Alpha Hall, Sri Sairam Engineering College.
5. REGIONAL DISTINGUISHED LECTURE 19/11/2025, 9:30:00 am 19/11/2025, 10:30:00 am Alpha Hall.
6. On behalf of the IEEE SSIT Society, we conducted an event on August 12, 2025, at Sigma Hall on the topic "Intelligent Vision: Redefining Video Analytics with AI as the Edge."

**INDUSTRIAL TRAINING**

1. One Week "Faculty Industrial Training Program" at I.P.L. PRODUCTS, Plot No. 48, Sidco Industrial Estate, Thirumudivakkam, Chennai-132, during the period 13.06.2022 to 18.06.2022.

**FACULTY DEVELOPMENT PROGRAM**

**ATAL FDP series:**

1. Innovative trends in data science and electric mobility: IPR opportunities and challenges at Birla Institute of Technology, Mesra, 8-12-2025 to 13-12-2025.
2. Participated & completed the AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Green Entrepreneurship for Atmanirbhar Bharat" from 2021-06-14 to 2021-06-18 at NITTTR Bhopal.
3. Participated & completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Cyber Security" from 2021-07-05 to 2021-07-09 at Vivekanand Education Society's Institute Of Technology.
4. I participated in and completed the AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "POWER ELECTRONICS APPLICATIONS IN SMART GRIDS AND ELECTRIC VEHICLES (PEASE - 2021)" from June 25 to June 29, 2021, at the National Institute of Technology, Andhra Pradesh.
5. Participated & completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on Recent Trends and Advancement in Integrated Power Systems at

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY from 16/12/2024 to 21/12/2024.

#### **OTHERS:**

1. Participated in two two-day online Faculty Development programs on “Research Opportunities in Power Engineering” organized by the Department of Electrical and Electronics Engineering, M. Kumarasamy College of Engineering, from 25.02.2021 to 26.02.2021.
2. Participated in the ISTE-sponsored five-day virtual faculty development program on renewable energy systems held from 08.02.2021 to 12.02.2021.
3. Participated in the Faculty Development Programme on “Creative and Innovative Teaching Strategies for the New Normal” organised by the Institution’s Innovation Council of Sri Sivasubramaniya Nadar College of Engineering during May 24-31, 2021.
4. Completed the AICTE-sponsored online two-week Faculty Development Programme on "Trends and Challenges in Power Converters and Control-Slot II," organized by the Department of Electrical Electronics Engineering, College of Engineering Guindy, Anna University, Chennai, from 04.05.2021 to 18.05.2021.
5. Participated in the Faculty Development Programme (FDP) on “Interactive Approaches in Handling Renewable Energy Systems Laboratory for the New Normal” organised by Sri Sivasubramaniya Nadar College of Engineering during June 29–July 02, 2021.
6. Participated in and completed the 5-day online FDP on the theme “Smart electric vehicles research and challenges” organized by IEEE PELS of Amrita School of engineering from 12 november 2021 to 14 November, 2021.
7. Attended a one-week faculty development program on next-generation artificial intelligence techniques & applications organised by the Artificial Intelligence Research Centre, Department of Computer Science & Engineering, BBD University in association with Soft Computing Research Society, New Delhi, India, from February 08, 2022, to February 13, 2022.
8. Participated in a two-day online Faculty Development program on “Research Opportunities in Power Engineering” organised by the Department of Electrical and Electronics Engineering, M. Kumarasamy College of Engineering, from 25.02.2021 to 26.02.2021.
9. Participated in a five-day online faculty development program on advanced technologies in electrical engineering design from 01-08-2022 to 05-08-2022 at Sri Sairam Institute of Technology.
10. Participated and completed the 5-day Face-to-Face UHV-II FDP organized by the All India Council for Technical Education (AICTE) at Sri Sairam Engineering College, Autonomous, Chennai, from 26th July to 30th July 2022.
11. Participated in the DST-SERB Sponsored TWO-DAY Online FDP On "Design and Development of Machine Learning Model for Remote Monitoring and Control of Hybrid Microgrid in Educational Institutions using Smart Sensor Network and IoT” organised by the Department of Electrical and Electronics Engineering, Kamaraj College of Engineering and Technology, Madurai, Tamil Nadu, during 11th & 12th January 2022.
12. Participated in the AICTE-recognised Faculty Development Programme on Power Electronics for Renewable Energy Applications conducted by the Electrical Engineering Department from 31/10/2022 to 04/11/2022 (one week) at NITTTR, Chandigarh.
13. Participated in a five-day online faculty development program on research challenges in electrical engineering and solutions with software at sairam engineering college from 21-12-2022 to 24-12-2022.
14. Participated in one week virtual faculty development program on “Biomedical Sensors and Signal Processing” conducted by department of Electronics and Communication Engineering loyola Institute of technology Chennai from 09-01-2023 to 13-01-2023.
15. “Advanced Power Electronics & Intelligent Control For Sustainable Electric Mobility And Renewable Energy Systems”FDP organised by Department of EEE SAIRAM INSTITUTE OF TECHNOLOGY.
16. Emerging EV Technologies, held from March 17 to 21, 2025, was conducted by IEEE PELS in the Department of EEE Sri Sairam Engineering College .

#### **SHORT TERM FACULTY DEVELOPMENT PROGRAM**

1. Participated in the 6-day AICTE-sponsored Online Short-Term Training Programme (STTP)

Series-III on “SOLAR ENERGY CONVERSION SYSTEMS: TECHNOLOGIES, DESIGN AND APPLICATIONS” from 15.02.2021 to 20.02.2021.

2. Participated in the One Week Short Term Training Program(Phase- 3) on “Trends and Challenges of Hybrid Electric Drive Utilities in Transport Sector” organized by the Department of Electrical and Electronics Engineering, Chaitanya Bha rathi Institute of Technology (Autonomous ) during 22 nd- 27th Febraury , 2021.
3. Attended six days online Short Term Training Programme on “Emerging Trends and Research Challenges in Next Generation Wireless Networks” organized by the Department of Electronics & Communication Engineering, Kongunadu College of Engineering and Technology, Trichy, from 15.03.2021 to 20.03.2021.
4. One week STTP on "Advanced Project and Scientific Paper Writing Strategies for High Impact Factor Journal Publications" from 04-09 Nov 2024.
5. One-week STTP on Innovative AI Tools for Research Excellence: A Hands-On Effective Writing Data Visualization. From 11- 16 nov 2024.

**WORKSHOPS ATTENDED:**

1. Familiarisation Program on Thermal power plant , Kamban engineering college 26,27,2009.
2. Fuzzy logic Applications to power systems in MP Nachimuthu M.jaganathan Engineering College, Erode on February 26, 2010.
3. Tackling Global Climate Changes through renewable Energy Sources, Kongu Engineering college ,Erode on March 10-13, 2010.
4. Modern control system using Matlab and Simulink at Kongu Engineering College, Erode.on December 21,23,2011.
5. Psychometric workshop at AVC College of Engineering on April 25,2012.



