


**Sri Sai Ram Engineering College**  
**Department of Electrical and Electronics Engineering**

1.Name:	<b>Dr.K.Suresh</b> 
2. Designation:	AssociateProfessor
3.Qualification :	M.E., Ph.D
4. Area of Specialization:	Power Systems
5.Experience:	Teaching: <b>UG</b> : 19Years <b>PG</b> :9Years Industry: -
6.No.of workshop: FDP attended :	WORSHOP 8  NATIONAL/INTERNATIONAL CONFERENCE : 12  FDP/STTP :24
7.Publication:	<b>Books</b> 2 <b>Journal</b> National 6 International:14 <b>Conference</b> National 4 International:24
8.Staff Achievements:	Reviewer in Elseveir, IET-UK, Taylor& Francis and Springer Journals, Editorial board member in Journal of Electronics Design and Technology, Book Reviewer - Vocational Streams in Government Higher Secondary schools in Tamil Nadu Government

**EXPERIENCE:**

Name of the Employer	Position Held	Period	
		From	To
Arasu Engineering College, Kumbakonam, Tamilnadu	Lecturer	May 2005	May 2006
Sri Manakula Vinayagar Engineering College, Puducherry	Lecturer	June 2006	December 2008
Sri Manakula Vinayagar Engineering College, Puducherry	Senior Lecturer	January 2009	June 2010
Sri Manakula Vinayagar Engineering College, Puducherry	Assistant Professor	July 2010	June 2012
Sri Manakula Vinayagar Engineering College, Puducherry	Associate Professor	July 2012	September 2013
Sri Manakula Vinayagar Engineering College (Autonomous), Puducherry	Professor	October 2013	October 2020
Sri Sai Ram Engineering College (Autonomous), Chennai	Assistant Professor Grade-I	August 2021	February 2022
Sri Sai Ram Engineering College (Autonomous), Chennai.	Associate Professor	March 2022	Till date

**AREAS OF INTEREST:**

- Smart Grid
- Transmission and Distribution
- Power System Analysis
- Power System Operation and Control

**MEMBERSHIP IN PROFESSIONAL BODIES**

- Institute of Electrical and Electronics Engineers (IEEE)-98063711-  
**Senior Member**
- Institution of Engineers (India) member-M1554063
- ISTE member-LM 105724

**RESEARCH SUPERVISOR:**

- Anna University, Chennai Recognized Research Supervisor, **Reference No:4030007**
- Guiding three Research Scholars

S.No	Name of the Student	Title of Research	University	Year of Registration	Programme (Ph.D/M.S. by research)	Status	Mode of Study (PT/FT)
1	Mr.P.Sivaprakasam	Hybrid Intelligent Optimization Techniques for Power System Reliability Evaluation	Anna University	January 2024	Ph.D	Course Work	PT
2.	Mr.Murugesan S	Hybrid Intelligent Computing Techniques For Optimal Power Quality Reinforcement In Smart Grid	Anna University	July 2024	Ph.D	Course Work	PT
3	Ms.Johnsi Rani J	Hybrid Intelligent Optimization Techniques For Controlling The EV Charging System Of Electrical Vehicles	Anna University	July 2024	Ph.D	Course Work	PT

### INTERNATIONAL JOURNAL/CONFERENCE REVIEWER

- International Journal of Electric Power and Energy Systems-**Elseveir**
- **IET(UK)** Generation, Transmission and Distribution
- Swarm and Evolutionary Computation-**Elseveir**
- Applied Energy-**Elseveir**
- Electric Power Components and Systems-**Taylor and Francis**
- Electrical Engineering-**Springer Journals**
- International Journal of Emerging Electric Power Systems-**Degruyter**
- International Journal of Electrical and Computer Engineering(**IJECE**)
- Hindawi Journal
- Jordan Journal of Mechanical and Industrial Engineering(**JJMIE**)
- ConcurrentEngineering:ResearchandApplications
- **IEEE Conference** Artificial Intelligence(CAI2024)25<sup>th</sup>-27<sup>th</sup>June,2024, Singapore
- ITIDMS'23\_International Scientific and Practical Conference "Information Technologies and Intelligent Decision Making Systems, **China**, 3<sup>rd</sup>-5<sup>th</sup>March 2023
- International Conference on Signal processing, Computation, Electronics, Power and Telecommunication (**IconSCEPT 2023**), National Institute of Technology, Puducherry, May 25-26,Karaikal,India

- **IEEE2023** Congress on Evolutionary Computation, July 1-5, 2023, **Chicago, USA**
- IEEE World Congress on Computational Intelligence (**IEEEWCCI2022**), 18<sup>th</sup>-23<sup>rd</sup> July, 2022, **Centro Congress Padova, Italy**
- IEEE Congress on Evolutionary Computation (**IEEECEC 2021**), June 26<sup>th</sup>-1<sup>st</sup> July 2021, **Krakow, Poland**
- IEEE Congress on Evolutionary Computation (**IEEECEC2020**), 19<sup>th</sup>-24<sup>th</sup> July, 2020, Glasgow, Scotland, UK
- IEEE Congress on Evolutionary Computation (**IEEECEC2018**), 8<sup>th</sup>-13<sup>th</sup> July, 2018, **Rio de Janeiro, Brazil**
- IEEE Congress on Evolutionary Computation (**IEEECEC 2017**), 5<sup>th</sup>-8<sup>th</sup> June, 2017, **San Sebastian, Spain**
- IEEE Congress on Evolutionary Computation (**IEEECEC2016**), 25<sup>th</sup>-29<sup>th</sup> July, 2016, **Vancouver, Canada**

## RESEARCH PUBLICATIONS

### International Journals

1. N. Chidambararaj, N., Shanmugapriya, S., **Suresh, K.**, Vasan Prabhu Veeramani, "Mitigating congestion management in power systems with high renewable integration using hybrid approach method", **Elsevier-Journal of Energy Storage**, Vol. 118, pp. 1-15, 2025, <https://doi.org/10.1016/j.est.2025.116089>,
2. **Kumarappan, N., Suresh, K.** "Combined SA PSO method for transmission constrained maintenance scheduling using levelized risk method", **Elsevier-International Journal of Electric Power and Energy systems**, Vol. 73, pp. 1025-1034, 2015, ISSN: 0142-0615
3. **Suresh, K., Kumarappan, N.** "Hybrid improved binary particle swarm optimization approach for generation maintenance scheduling problem", **Elsevier- Swarm and Evolutionary Computation**, Vol. 9, pp. 69-89, 2013, ISSN: 2210-6502
4. **Suresh, K., Kumarappan, N.** "Generation maintenance scheduling using binary particle swarm optimization considering aging failures", **IET Generation, Transmission and Distribution**, Vol. 7, No. 10, pp. 1072-1086, 2013, ISSN: 1751-8687
5. **Suresh, K.,** Porkumaran, K. Sanjeevi Gandhi, A. G. Venkatesan. C. Jeeva, Combined Simulated annealing and Improved Binary PSO based Optimal Corona Ring Design for High Voltage Transmission Line, **PRZEGLĄD ELEKTROTECHNICZNY**, ISSN 0033-2097, R. 100 NR 5/2024 pp. 222-227, doi:10.15199/48.2024.05.42.
6. **Suresh, K.,** Witteric Lourdesmarie Juliana, Aruneshvasan, S. Kishoredass, D. B. "Astute bus identification system for the visually impaired", **Journal of AMSE**, Vol. 80, No. 24, pp. 50-56, 2020.

7. **Suresh, K.,** R.Ajithkumar,M.Haridoss,K.Gokul “Solar powered robotic seed sowing Agribot using linear actuator”, **i-manager's Journal on Electronics Engineering (JELE)**, Vol. 10, No. 2, 2020.
8. **Suresh, K.,** S. Bhuvanesh and B. Krishnadevan “Arduino microcontroller based smart dustbins for smart cities”, **ICTACT Journal on MicroElectronics**,Vol.5,No.3,pp.807-814,2019. DOI:10.21917/ijme.2019.0139
9. **Suresh, K.,** S. Karthikeyan and A. Manikandan “Cybernetic e-vehicle for campus transportation”, **ICTACT Journal on Micro Electronics**, Vol. 5, No. 2, pp. 758-766, 2019. DOI: 10.21917/ijme.2019.0132
10. S.Shareen Afrose, K.Harisudha, **K.Suresh**, “Analysis and characterization of doublecage induction motor for electrical vehicle application” **IAETSD Journal for Advanced Research in Applied Sciences**, Vol.5, No.4, pp.1046-1052, ISSN NO: 2394-8442, April 2018.
11. K.Harisudha, S.ShareenAfrose, **K.Suresh**, “Analysis of outer rotor permanent magnet flux switching machine for in-wheel light traction application” **Journal of Advanced Research in Dynamical & Control Systems**, Vol. 10, 03-Special Issue, pp.888- 892,2018.
12. **Suresh, K.,** Kumarappan, N. “Binary particle swarm optimization approach for random generation outage maintenance scheduling”, **ICTACT Journal on SoftComputing**, Vol. 3, No. 4, pp. 478-484, 2013.
13. Kumarappan, N., **Suresh, K.,** Babu, V.S. “Generator maintenance scheduling with transmission constraints using intelligent approach”, **Journal of the Institution of Engineers (India)**, Vol. 92, pp. 32–38, 2011.
14. Kumarappan, N.,**Suresh, K.** “Assessment andreliabilityof parameters of particleswarm optimization based generation maintenance scheduling using leveled risk method”, **Journal of AMSE**, Vol. 83, No. 2, pp. 20–33, 2010.

#### **International Conferences**

1. **Suresh, K,** Rajakumar P, S Murugesan, P. Sivaprakasam, J.Johnsi Rani “Smart Brain Controlled Prosthetic Arm Using hybrid Binary PSO”, **IEEE International Conference on Power, Energy, Control and Transmission systems(ICPECTS 24)**, Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8<sup>th</sup>-9<sup>th</sup> October 2024.
2. Rajakumar. P ,**Suresh, K.** Gokul,Sivaram. B. G,Shivaganesh. S,Uthama Raja. M “An artificially intelligent battery management system”, **IEEE International Conference on Power, Energy, Control and Transmission systems(ICPECTS 24)**, Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8<sup>th</sup> -9<sup>th</sup> October 2024.
3. Rajakumar P, **Suresh K,** Yogeswari T, Sathasree M, Divya G “Street light intensity control”, **IEEE International Conference on Power, Energy, Control and Transmission systems(ICPECTS 24)**, Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8<sup>th</sup> -9<sup>th</sup> October 2024.

4. S.Sumitha, A. Sanjeevi Gandhi, **Suresh.K**, Priya C, H.S. Blessing Joshuva, A.Santhosh Guru “An Overview of Intelligent Control Techniques for Enhancing Regenerative Braking Energy in Hybrid Electric Vehicles”, IEEE International Conference on Power, Energy, Control and Transmission systems(ICPECTS 24), Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8<sup>th</sup> -9<sup>th</sup> October 2024.
5. **Suresh, K.** Paulina.J, Jeeva.C, Rajkumar. K , Kalaivani.KAmsavarthini.R “Smart Assistive Stick for Visually Impaired Person with Image Recognition”, **IEEE International Conference** on Power, Energy, Control and Transmission systems(ICPECTS 22), Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8<sup>th</sup>-9<sup>th</sup>December 2022.
6. **Suresh,K.**Soumya.M, Dakshina.R, A.Sanjeevi Gandhi“Smart Lane Detection Using Open CV And Image Processing”, **IEEE International Conference** on Power, Energy, Control and Transmission systems(ICPECTS 22), Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8<sup>th</sup>-9<sup>th</sup>December 2022.
7. Mohan.S, K.Rajkumar, **Suresh, K.** J.Harinarayanan “Photovoltaic fed Fly back Converters using Improved Perturb and Observe Algorithm”, **IEEE International Conference** on Computing and Communication Technologies(ICCCT 21), Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 16<sup>th</sup>-17<sup>th</sup>December 2021.
8. R.Premnath, **Suresh, K.**“Design and Optimization of Grid Connected Hybrid Power System Using Homer,” 7<sup>th</sup>International Conference On Contemporary Engineering and Technology 2019 Organized by Organization Of science & Innovative Engineering and Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Ponmar, Chennai, Vol.1, 9<sup>th</sup>- 10<sup>th</sup>March 2019.
9. S.ShareenAfrose,K.Harisudha, **K.Suresh**,” Analysis and characterization of doublecage induction motor for electrical vehicle application” International Conference on Science Engineering and Technology(ICONSET’18),Jeppiar Engineering College,Chennai,23<sup>rd</sup>-24<sup>th</sup>March2018.
10. K.Harisudha, S.ShareenAfrose, K.Vijayakumar, **Suresh, K.** “Analysis of outer rotor permanent switching machine for in-wheel light traction application”, International Conference on Contemporary Engineering and Technology 2018,Prince Shri Venkateshwara Padmavathy Engineering College, Chennai, India, 10<sup>th</sup>-11<sup>th</sup>March 2018.
11. K.Harisudha, S.ShareenAfrose, **Suresh, K.** “Different pole arc and different magnet combination to reduce the cogging torque in PMDC motors”, **IEEE International Conference** on Computation of Power, Control, Signal and Instrumentation Engineering (ICPCSI), Saveetha Engineering College, Thandalam, Chennai, India, Vol.1, 21<sup>st</sup>-22<sup>nd</sup>September 2017.

12. S.SivaRanjani**Suresh, K.**, “Hybrid interline dynamic voltage restoring and displacement factor controlling device for improving power quality of the distribution”, Proceedings of **IEEE International Conference on Electrical, Electronics and Optimization Techniques (ICEEOT)**, DMI College of Engineering for Women, Chennai, India, Vol.1, 3<sup>rd</sup>-5<sup>th</sup> March 2016.
13. Jerusha Chintu N, **Suresh, K.** Kripakaran P, Ashwin K “An adaptive fuzzy logic control method based on the power electronic hybrid system for harmonic suppression” **IEEE International Conference on Advances in Engineering and Technology (ICAET 2014)**, EGS Pillay Engineering College, Nagapattinam, India, 02<sup>nd</sup>-03<sup>rd</sup> May 2014.
14. S.Kanimozhi, **Suresh, K.** S.Anandakumar, V.Thamaraimanalan “Design of enabling window control for single phase AC/DC converter for non-Linear load with reduced THD” **IEEE International Conference on Computation of Power, Energy, Information and communication (ICCPECI)**, AdhiParasakthi Engineering College, Melmaruvathur, Chennai, India, Vol.1, pp.551-556, 16<sup>th</sup>-17<sup>th</sup> April, 2014.
15. S.Kanimozhi, **Suresh, K.** N.Jerusha Chintu “Enabling Window control Based Power Factor Improvement for single phase AC/DC converter” **IET sponsored conference on Emerging Technologies in Computing, Control and Communications (ETCCC-2K14)** Arunachala College of Engineering for Women, Vellimalai, India, Vol.1, pp.293-298, 21<sup>st</sup>-22<sup>nd</sup> February 2014.
16. **Suresh, K.**, Kumarappan, N. “Coordination mechanism of maintenance scheduling using modified PSO in a restructured power market”, Proceedings of **International IEEE Symposium Series on Computational Intelligence (SSCI) 2013, Singapore**, Vol.1, pp. 36 – 43, 15<sup>th</sup>-19<sup>th</sup> April 2013..
17. **Suresh, K.**, Kumarappan, N. “Hybrid particle swarm optimization based generation maintenance scheduling in the restructured power system”, Proceedings of International conference on System Methodologies Automation and Research Trends (SMART-2012), Puducherry, Vol. 1, pp. 64-68, 12<sup>th</sup>-14<sup>th</sup> December 2012.
18. **Suresh, K.** and Kumarappan, N. “Particle swarm optimization based generation maintenance scheduling using probabilistic approach”, Proceedings of Power, International Conference on Communication Technology and System Design (ICCTSD-2011), Coimbatore, Vol.1, No.1, pp.1185-1193, 7<sup>th</sup>-9<sup>th</sup> December 2011 and **Elsevier Procedia Engineering**, Vol.30, pp.1146–1154, 2012.
19. **Suresh, K.**, Kumarappan, N. “Particle swarm optimization based maintenance scheduling using leveled risk method and evaluation of system wellbeing index evaluation”, **Proceedings of IEEE International Conference on World Congress on Computational Intelligence (IEEE WCCI-2010), Barcelona, Spain**, Vol. 1, pp.1–7, 18<sup>th</sup>-23<sup>rd</sup> July 2010. Digital Object Identifier :10.1109/CEC.2010.5586306

20. **Suresh, K.**, Kumarappan, N. “Genetic algorithm based maintenance scheduling using levelized risk method and evaluation of system reliability analysis”, Proceedings of International Conference on Power, Control and Embedded Systems (ICPES-2010), **Chennai**, Vol. 1, pp. 49-55, 9<sup>th</sup>-12<sup>th</sup> December 2010.
21. Kumarappan, N., **Suresh, K.** “Particle swarm optimization based approach to maintenance scheduling using levelized risk method”, Proceedings of **IEEE International Advanced Computing Conference (IACC-2009)**, **Patiala**, India, pp. 33-38, Vol. 1, 6<sup>th</sup>-7<sup>th</sup> March 2009.
22. Kumarappan, N., **Suresh, K.** “Particle Swarm optimization based approach to maintenance scheduling using levelized risk method”, Proceedings of **International IEEE Power India Conference on Power System Technology, (POWERCON-2008)**, **New Delhi**, India, Vol.1, pp.1-6, 12<sup>th</sup>-15<sup>th</sup> October 2008. Digital Object Identifier: 10.1109/ICPST.2008.4745384
23. **Suresh, K.**, Kumarappan, N. “Combined genetic algorithm and simulated annealing for preventive unit maintenance scheduling in power system”, **Proceedings of PES (Power Engineering Society) General Meeting, Montreal, Canada**, Vol. 1, pp.1-5, 18<sup>th</sup>-22<sup>nd</sup> June 2006. Digital Object Identifier: 10.1109/PES.2006.1709254.
24. Kumarappan, N., **Suresh, K.** “Coordinated maintenance scheduling in power system using combined genetic algorithm and simulated annealing”, Proceedings of **International IEEE Power India Conference (POWERCON 2006)**, **New Delhi**, India, Vol. 1, pp.1-8, 10<sup>th</sup>-12<sup>th</sup> April 2006. Digital Object Identifier: 10.1109/POWERI.2006.1632547.

## **BOOKS PUBLISHED**

1. **Dr. K. Suresh**, Dr.R.Azhagumurugan, P.Rajakumar “Island mode operation of hybrid (AC/DC) microgrid using renewable sources ” **Lambert Academic publishing, ISBN:978-620- 4-74094-2**
2. **Suresh, K.** “Improved Binary Particle Swarm Optimization based Maintenance Scheduling using Levelized Reserve and Risk method”, **ISBN: 9783346037602, GRIN Publishing, Germany.**

## **PATENT GRANTED**

1. Granted Design Patent for the project titled **SERVO AMPLIFIER CONTROL DEVICE** -Design No. 398500-001 26/10/2023

## **PATENT PUBLISHED**

- 1 “Energy conservation apparatus for Bypass capacitors during dynamic power loss and method thereof” Application number-202441075399 **A-Intellectual Property Rights (IPR)**, The Patent Office Journal No.40/2023, Publication date : 18/10/2024.



2. “A three-phase multilevel inverter cascaded by three two-level and two single-phase boosted h-bridge inverters” Application number- 202341065452 **A-Intellectual Property Rights (IPR)**, The Patent Office Journal No.40/2023, Publication date : 06/10/2023.
3. “A system and method for battery management system for green energy storage” Application number- 202341044356 **A-Intellectual Property Rights (IPR)**, The Patent Office Journal No.35/2020, Publication date : 01/09/2023.
4. “Astute bus identification system for the visually impaired” Application number 201941004979- **Intellectual Property Rights (IPR)**, **The Patent Office Journal No.08/2021**, Publication date: 19/02/2021.
5. “Device for catalyzed drying of food based materials” Application number-202041040041A-**Intellectual Property Rights (IPR)**, **The Patent Office Journal No.39/2020**, Publication date: 25/09/2020.

## **Faculty Development Program/Workshop/Conference Attended**

### **Participation in Conferences**

1. Presented a paper on the topic ““Smart Brain Controlled Prosthetic Arm Using hybrid Binary PSO”, **IEEE International Conference** on Power, Energy, Control and Transmission systems(ICPECTS 24), Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8th - 9th October 2024.
2. Presented a paper on the topic “Smart Assistive Stick for Visually Impaired Person with Image Recognition”, **IEEE International Conference** on Power, Energy, Control and Transmission systems(ICPECTS 22), Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8<sup>th</sup>-9<sup>th</sup>December 2022.
3. Presented a paper on the topic “Smart Lane Detection Using Open CV And Image Processing”, **IEEE International Conference** on Power, Energy, Control and Transmission systems(ICPECTS 22), Sri Sai Ram Engineering College, Tambaram, Chennai, India, Vol.1, 8th -9th December 2022..
4. Attended one Day National Conference on the topic “**Indian Higher Education Agenda for Innovation Leap frogging inspite of all constraints**” organized by Education Promotion Society of India (EPSI) held at Chennai on 14<sup>th</sup>September 2019.
5. Attended Two Days **National Conference** on the topic “**Digital Security**” held at Sri Manakula Vinayagar Engineering College, Puducherry from 26<sup>th</sup>- 27<sup>th</sup>July 2019.
6. Presented a paper on the topic “**Hybrid Particle Swarm Optimization based Generation Maintenance Scheduling in the Restructured**

- Power System”** in the International conference on System Methodologies Automation and Research Trends (**SMART 2012**)organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 12<sup>th</sup>-14<sup>th</sup>December 2012.
7. Presented a paper on the topic “**Particle Swarm Optimization based Generation Maintenance Scheduling using Probabilistic Approach**”, in Power, International Conference on Communication Technology and System Design (ICCTSD-011)organized by **Amrita University, Coimbatore**, India from 7<sup>th</sup>-9<sup>th</sup>December 2011.
  8. Presented a paper on the topic “**Genetic Algorithm based Maintenance Scheduling using Levelized Risk Method and Evaluation of System Reliability Analysis**”, in **International Conference** on Power, Control and Embedded Systems (ICPCES-2010),organized by **Anna University, Chennai**, India from 9<sup>th</sup>-12<sup>th</sup>December 2010.
  9. Presented a paper on the topic “**Particle swarm optimization based approach to maintenance scheduling using levelized risk method**”, in **IEEE International Advanced Computing Conference (IACC-2009)**, **Patiala**, India from 6<sup>th</sup>-7<sup>th</sup>March 2009.
  10. Attended **AICTE sponsored** National Level Seminar on the topic“**Energy Management and Energy Conservation Techniques**” organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 14<sup>th</sup>-16<sup>th</sup>February 2008.
  11. Attended **AICTE sponsored** National Level Seminar on the topic “**Advances in Optical Networks**” organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 26<sup>th</sup>-28<sup>th</sup>July 2007.
  12. Attended **AICTE sponsored** National Level Seminar on the topic “**Advances in Network and Communication**” organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 18<sup>th</sup>-20<sup>th</sup>October 2006.

#### **Participation in Faculty Development Programme(FDP)**

1. Faculty Development Programme (FDP) on “**AI applications in Electrical and Electronics Engineering**” Organized by Department of EE&CE,**NITTTR, Chennai** from 10th - 14th June 2024.
2. Participated and successfully completed the Online FDP on the theme “**Inculcating Universal Human Values in Technical Education**” organized by **All India Council for Technical Education (AICTE)** from 16th - 20th January 2023.
3. Attended **ATAL Academy** sponsored “**Advanced FDP on Electronic System Design- IDEA LAB**” Organized by K.S.Rangasamy College of Technology (Autonomous) Tiruchengode, Namakkal, Tamilnadu, 21<sup>st</sup>– 27<sup>th</sup>July 2022.

4. Attended five days online FDP on "**Next Generation Energy Harvesting and Storage Technologies**" 12<sup>th</sup>-16<sup>th</sup>December,2022 Organized by Electrical and Electronics Engineering, **Bharath Institute** of Higher Education and Research, Bharath of Institute of Science and Technology, Chennai.
5. Attended Six Days Faculty Development Programme on "**Storage Technologies and Associated Control Techniques**" (Online), December 12<sup>th</sup>-17<sup>th</sup>, 2022 Organized by Electrical and Electronics Engineering, **SRM** Institute of Science and Technology, Chennai.
6. Faculty Development Programme (FDP) on "**Electric Vehicle Engineering**" Organized by Department of EE&CE,NITTTR Chennai and AICTE-ATAL from 25<sup>th</sup>- 29<sup>th</sup>October 2021.
7. Faculty Development Programme(FDP)on"**Industry Academia Interactions Bridging the Gap**" **Organized by Electrical and Electronics Engineering**, Sri Manakula Vinayagar Engineering College, Puducherry in Association with IEEE student Branch from 10<sup>th</sup>- 12<sup>th</sup>September 2020.
8. Faculty Development Programme (FDP) on "**Emerging Trends in Electric Vehicle, Lighting and Automation**" Organized by Department of Electrical and Electronics Engineering, VelTech HighTech Dr.Rangarajan Dr.Sakunhala Engineering College, Chennai from 26<sup>th</sup>- 30<sup>th</sup>June 2020.
9. Faculty Development Programme (FDP) on "**Modelling, Technologies and control on Electric Vehicle**" Organized by Department of Electrical and Electronics Engineering, AMET University from 25<sup>th</sup>- 30<sup>th</sup>June 2020.
10. Faculty Development Programme (FDP) on "**Outcome based Education: A step towards Excellence**" under Margdarshan Scheme of AICTE Organized by Government College of Engineering, Karad from 11<sup>th</sup>- 15<sup>th</sup>2020.
11. Faculty Development Programme (FDP) on "**Technology towards man**" Organized by Instrumentation and Control Engineering, Sri Manakula Vinayagar Engineering College, Puducherry from 10<sup>th</sup>- 13<sup>th</sup>June 2020.
12. Faculty Development Programme (FDP) on "**Renewable Energy Systems**" Organized by Department of Electrical and Electronics Engineering, RVS College of Engineering and Technology, Coimbatore from 1<sup>st</sup>- 5<sup>th</sup>June 2020.
13. Faculty Development Programme (FDP) on "**Technological advances in Power Switching Converters for Renewable Energy Sources and Fuel Technology for E Vehicles**" Organized by Department of Electrical and Electronics Engineering Bapatala Engineering College, Bapatala from 1<sup>st</sup>- 5<sup>th</sup>June 2020.
14. Faculty Development Programme (FDP) on "**Innovative Teaching Pedagogy in the Technical Institutions**" Organized by IQAC, KBT College of Engineering, Nashik from 1<sup>st</sup>- 5<sup>th</sup>June 2020.

15. Faculty Development Programme (FDP) on “**Industry Academia Interactions Bridging the Gap**” Organized by Electrical and Electronics Engineering, Sri Manakula Vinayagar Engineering College, Puducherry in Association with **IEEE student Branch** from 10<sup>th</sup>-12<sup>th</sup> September 2020.
16. Attended Faculty Development Programme on the topic “**Embedded System & Raspberry pi based IOT**” Organized by Sri Manakula Vinayagar Engineering College, Puducherry from 27<sup>th</sup> November 2018 - 13<sup>th</sup> December 2018.
17. Attended AICTE sponsored one day Workshop on “**Research and Development in Engineering Institutions**”, organized by Manakula Vinayagar Institute of Technology, Puducherry, India on 13<sup>th</sup> September 2014.
18. Attended AICTE sponsored SDP on the topic “**Alternative Energy Systems for Near Future**” organized by Sri Manakula Vinayagar Engineering College, Puducherry, India during June 21-July 2, 2012.
19. Attended FDP on “**Intelligent Computing to Clean Energy**”, organized by **IEEE Madras Section**, held at Jeppiar Engineering College, Chennai, India from 7<sup>th</sup>- 8<sup>th</sup> October 2011.
20. Attended FDP “**Applications of Computational Intelligent Techniques in Power System**” organized by **IEEE Madras Section** held at Velammal Engineering College”, Chennai, India from 6<sup>th</sup>-7<sup>th</sup> February 2010.

### **Participation in Workshops**

1. Attended one day workshop on “**Training of Trainers-Technical session on Indian Standards** ” organized by **Bureau of Indian Standards(BIS)**, Sri Sai Ram Engineering College, Tambaram, Chennai, India, 10<sup>th</sup> December 2024.
2. Attended two days online workshop on “**Awareness on Quality Initiatives for Higher Educational Institutions through Research, Innovation, Startups and Entrepreneurship**” (QI- HEI-RISE), organized by Office of IQAC, Srinivasa Ramanujan Institute of Technology, Anantapur, Andhra Pradesh sanctioned by **NAAC**, Bangalore during 18<sup>th</sup>-19<sup>th</sup>, November 2022.
3. Attended five days hands on workshop on “**Patent searching, Drafting and Filing**” (online mode) from 29-05-2020 to 02-06-2020, Organized by Turnip Innovations and Exilyze Intellectual Services, in Association with IEEE Computer Society & Computer Society of India, Panimalar Institute of Technology.
4. Attended One Day National Level Workshop on the topic “**Embedded System design using PSoC**” Organized by IEEE Society on Social Implications of Technology, IEEE Madras Section & Sri Manakula

Vinayagar Engineering College, Puducherry on 11th August 2018.

5. Attended Professional Development Workshop on “**TEACH-Transform, Empower and Change**”, organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 1<sup>st</sup>– 3<sup>rd</sup> June 2017.
6. Attended Institution of Engineers (India) sponsored two days Workshop on the topic “**Challenges and Opportunities in Power Electronics Research (CHOPPER)**” organized by E.G.S Pillay Engineering College, Nagapattinam, India from 21<sup>st</sup>– 22<sup>nd</sup> April 2016.
7. Attended Technical Workshop on the topic “**Smart Grid**”, organized by IEEE Madras Section, Chennai, India from 25<sup>th</sup>- 26<sup>th</sup> August 2012.
8. Participated 26<sup>th</sup> Indian Engineering Congress as a delegate organized by **The Institution of Engineers (India)** from 15<sup>th</sup>-18<sup>th</sup> December 2011, held at Bangalore.

#### **Participation in Short Term Courses**

1. Attended Training on the topic “**Pre incubations & Incubation Management-IIC Innovation Ambassador Training series**” Organized by IIC- Innovation council of **MHRD & AICTE** held at Sri Krishna College of Engineering & Technology, Coimbatore, Tamilnadu from 6<sup>th</sup>- 7<sup>th</sup> January 2020.
2. Attended AICTE and Indian Society for Technical Education (ISTE) sponsored Short Term Training Programme (STTP) on “**Agent Technology and Web Services**”, organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 19<sup>th</sup>- 23<sup>rd</sup> March 2007.
3. Attended AICTE sponsored SDP on “**Advances in Embedded and Wireless Technology**”, organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 18<sup>th</sup>- 28<sup>th</sup> January 2007.
4. Attended AICTE sponsored Staff Development Programme (SDP) on “**Computational Intelligence for System Automation and Communication**”, organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 18<sup>th</sup>- 28<sup>th</sup> December 2006.

#### **NITTT MODULES, NPTEL-AICTE FDP COURSES**

1. Successfully Completed 8 Modules in **NITTT** (National Initiative for Technical Teachers Training and Certified by **AICTE**).
2. Completed NPTEL-AICTE FDP on “**Data Science for Engineers**” during January 2025-March 2025 (8 Weeks Course).
3. Completed NPTEL-AICTE FDP on “**Python for Data Science**” during July 2024-August 2024 (4 Weeks Course).
4. Completed NPTEL-AICTE FDP on “**Introduction to Machine Learning**” during July-October 2024 (12 Weeks Course).

5. Completed NPTEL-AICTE FDP on “**Introduction to Intellectual Property**” during January 2023-April 2023 (12 Weeks Course).
6. Completed NPTEL-AICTE FDP on “**Sustainable Power Generation Systems**” during July 2023-October2023 (12 Weeks Course).
7. Completed NPTEL-AICTE FDP on “**Electric Vehicles - Part I**” during February 2020-March 2020 (4 Weeks Course).
8. Completed NPTEL-AICTE FDP on “**DC Microgrid**” during July 2019-September 2019 (8 Weeks Course).
9. Completed NPTEL-AICTE FDP on “**Advances in UHV Transmission and Distribution**” during January 2019-March 2019 (8 Weeks Course).
10. Completed NPTEL-AICTE FDP on “**Introduction to Smart Grid**” during August 2018-September 2018 (8 Weeks Course).

## RESOURCE PERSON

1. Acted as a session chair in the “**IEEE International Conference on Power, Energy, Control and Transmission systems (ICPECTS 24)**”, Sri Sai Ram Engineering College, Tambaram, Chennai, India, 8<sup>th</sup>-9<sup>th</sup>October 2024.
2. Acted as a Resource person in the FDP on the topic “**Biomedical devices and its applications**” Organized by AIDS Department Sri Sai Ram Engineering College, Tambaram, Chennai from 05.02.2024 to 09.02.2024
3. Acted as a session chair in the “**IEEE International Conference on Power, Energy, Control and Transmission systems (ICPECTS 22)**”, Sri Sai Ram Engineering College, Tambaram, Chennai, India, 8<sup>th</sup>-9<sup>th</sup>December 2022.
4. Acted as **Jury** for the IEEE MAS-E TEC symposium's paper contest, Project Expo event organized by **IEEE Madras Section** on 04/07/2021
5. Presented a lecture on the topic “**Simulated Annealing**” in the Faculty Development Programme (FDP) titled “**Applications of Computational Intelligent Techniques in Power System**” organized by **IEEE Madras Section** held at Velammal Engineering College, Chennai, India from 6<sup>th</sup>– 7<sup>th</sup>February 2010.

## FACULTY AWARDS

- Received the Mentor Appreciation Certificate in **SOLVEATHON 1.0-2022** organized by Sri Sai Ram Engineering College, Chennai for the project titled “Smart Blind Stick with Image Processing” held at Sri Sai Ram Engineering College during the period 20-4-22 to 21-4-22
- Received the **Mentor appreciation award** and Guiding Star from Sri Sai Ram Engineering College Management for motivating the Mentee to get remarkable Performance in Skill Rack on 27/12/21

- Received Certificate of **Recognition for Mentor** from InSc Institute of Scholars in the Student Project Program 2022 for the project titled “SmartBlindStick with Image Processing” during the period April 2022

## **INDUSTRIAL TRAINING UNDERGONE**

- Successfully undergone 6 days “Faculty Industrial Training Program” at Kasa Anlagen India Pvt Ltd, No.18, **SIDCO Industrial Estate**, Thirumudivakkam, Chennai-600132 during the period 2-3-22 to 8-3-22

## **RESPONSIBILITIES**

- Research Centre convenor,
- IIPC Department Coordinator
- NIRF- SCOPE member-Graduation Outcomes
- IEEE Reliability Society-SCOPE member
- R&D- SCOPE member
- SCOPE member NAAC-Criterion III
- Department BoS member
- IDEX DISC#6 coordinator
- IDEX DISC#11 coordinator
- IDEX DISC#12 coordinator
- UTP Malaysia Familiarization coordinator
- UTP Malaysia VRAP coordinator
- Department Objective File Incharge
- Class coordinator and Year Coordinator of 2024 Batch

## **COUNTRY VISITED**

- Successfully attended UTP Familiarization Programme 2024, organized by **Universiti Teknologi PETRONAS (UTP)**, Malaysia from July 8, 2024 to July 12, 2024.

## **PROGRAMMES ORGANIZED**

- **Co-chair and Treasurer** for **IEEE International Conference** on Power, Energy, Control and Transmission systems (ICPECTS 24), **Sri Sai Ram Engineering College**, Tambaram, Chennai, India, 8th -9th October, 2024.

- **Coordinator for Defence Innovation and Startup Hackthon-** Ignite innovation and Foster Collaboration for Forging the Future of Defence held on 5<sup>th</sup> November 2024
- **Coordinator** for Two days Boot camp series III on ”**Internet of things**” held from 12.04.2024 to 13.04.2024, **Sri Sai Ram Engineering College**, Tambaram, Chennai, India
- **Organizer** for **IEEE Technical Talk** on “**Empowering sustainability: The Impact of Innovative Power Electronics on Renewable Energy**” held on 07-03-2024 sponsored by **IEEE Madras Section**, IEEE PELS Madras Chapter in association with IEEE PELS SEC SB chapter
- **Organizing committee member** Sai Ram Defence Industry Connect 1.0-**Innovation and Indigenization opportunities** in Defence for MSMEs held on 22-11-2022
- **Coordinator for International Delegates Visit** on the topic “Interaction session on academic and research collaboration (past, present, and future)” Organized by Centre for International Relations (CIR), held at **Sai Ram Engineering College, Chennai** on 30<sup>th</sup> September 2022.
- **Co Coordinator** for International Delegates Visit on the topic **Interaction session on academic and research collaboration (past, present, and future)**” Organized by **Centre for International Relations (CIR)**, held at Sai Ram Engineering College, Chennai on 30<sup>th</sup> September 2022.
- **Co Coordinator** for One Day **National Level Workshop** on the topic “Embedded System design using PSoC” Organized by **IEEE Society on Social Implications of Technology, IEEE Madras Section** held at Sri ManakulaVinayagar Engineering College, Puducherry on 11<sup>th</sup> August 2018.
- **Co-Coordinator** for Track I-(Electrical and Control Engineering)–**International Conference** on System Methodologies Automation and Research Trends (SMART), Sri Manakula Vinayagar Engineering College, Puducherry, 12<sup>th</sup>-14<sup>th</sup> December, 2012.
- **Organizer** for the guest lecture titled “Maintenance of Thermalpower plant” delivered by **Mr.N.Rengarajan, Chief Manager, Meters and Relay Testing department, TPS-I Expansion, NLC Limited, Neyveli** on 20.01.2018, Sri Manakula Vinayagar Engineering College, Puducherry
- **Organizer** for the guest lecture titled “Braking methods in Electric Traction” delivered by **Mr.S.M.Amuthan, General Manager(Operations), Bengaluru Metro Rail Limited, Bengaluru** on 20.07.2017, Sri ManakulaVinayagar Engineering College, Puducherry