

Sri Sai Ram Engineering College
Department of Electrical and Electronics Engineering

1.Name:	<p style="text-align: center;">Dr.K.Suresh</p> 
2. Designation:	AssociateProfessor
3.Qualification :	M.E., Ph.D
4. Area of Specialization:	Power Systems
5.Experience:	Teaching: UG : 20Years PG :9Years Industry: -
6.No.of workshop: FDP attended :	WORKSHOP 8 NATIONAL/INTERNATIONAL CONFERENCE : 13 FDP/STTP :31
7.Publication:	Books 2 Journal National 6 International:14 Conference National 4 International:25
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:

NameoftheEmployer	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	SeniorLecturer	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 six 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
4.	Ms.Stella N 26229991324	Hybrid Intelligent Techniques based State-of-charge assessment in battery management system and Decentralized model Predictive Control Strategy for Electric Vehicles	Anna University	January 2026	Course Work	FT	Course Work
5.	Ms.Thamilarasi J 26233991148	Computational hybrid intelligence techniques for capacity expansion planning and transmission network expansion planning in power system.	Anna University	January 2026	Course Work	PT	Course Work

6.	Mr.Kandan K 26133991147	Congestion management in power grids using hybrid intelligent techniques	Anna University	January 2026	Course Work	FT	Course Work
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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)25th-27thJune,2024,
Singapore
- ITIDMS'23_International Scientific and Practical Conference "Information
Technologies and Intelligent Decision Making Systems, **China**, 3rd-
5thMarch 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,July1-5,
2023,**Chicago,USA**
- IEEE World Congress on Computational
Intelligence(**IEEEWCCI2022**).18th-23rdJuly,2022,**Centro Congress
Padova, Italy**
- IEEE Congress on Evolutionary Computation (**IEEECEC
2021**)June26th-1stJuly 2021,**Krakow,Poland**
- IEEE Congress on Evolutionary Computation(**IEEECEC2020**)19th-
24thJuly,2020,Glasgow,Scotland,UK
- IEEE Congress on Evolutionary Computation(**IEEECEC2018**)8th-
13thJuly,2018, **Rio de Janeiro, Brazil**
- IEEE Congress on Evolutionary Computation(**IEEECEC 2017**) 5th-
8thJune, 2017, **San Sebastian, Spain**
- IEEE Congress on Evolutionary Computation(**IEEECEC2016**)25th-
29thJuly,2016,**Vancouver, Canada**

RESEARCH PUBLICATIONS

International Journals

1. N. Chidambararaj, N., Shanmugapriya,S., **Suresh, K.**, Vasana 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 maintenancescheduling 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. SanjeeviGandhi.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 systemfor 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 and reliability of parameters of particle swarm optimization based generation maintenance scheduling using leveled risk method”, **Journal of AMSE**, Vol. 83, No. 2, pp. 20–33, 2010.

International Conferences

1. Johnsi Rani J; **Suresh K** “Integration of Electric Vehicles with Smart Grids: Adaptive Control Mechanisms for Suitable and Sustainable EV Charging Governance”, **IEEE International Conference on 2025 International Conference on Digital Innovations for Sustainable Solutions (ICDISS)**, Faridabad, India, Vol.1, 14th-15th January 2026.
2. **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, 8th-9th October 2024.
3. 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, 8th -9th October 2024.
4. 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, 8th -9th October 2024.
5. S. Sumitha, A. Sanjeevi Gandhi, **Suresh. K.**, Priya C, H.S. Blessing Joshua, 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, 8th -9th October 2024.
6. **Suresh, K.** Paulina. J, Jeeva. C, Rajkumar. K, Kalavani. K, Amsavarthini. 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, 8th-9th December 2022.

7. **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, 8th-9thDecember 2022.
8. 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, 16th-17thDecember 2021.
9. R.Premnath, **Suresh, K.** “Design and Optimization of Grid Connected Hybrid Power System Using Homer,” 7thInternational 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, 9th- 10thMarch 2019.
10. 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, 23rd-24thMarch 2018.
11. 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, 10th-11thMarch 2018.
12. 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, 21st-22ndSeptember 2017.
13. 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, 3rd-5thMarch 2016.
14. JerushaChintu 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, 02nd-03rdMay 2014.

15. 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, 16th-17thApril, 2014.
16. 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, 21st-22ndFebruary 2014.
17. **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, 15th-19thApril 2013..
18. **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, 12th-14thDecember 2012.
19. **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, 7th-9thDecember 2011 and **Elsevier Procedia Engineering**, Vol.30, pp.1146–1154, 2012.
20. **Suresh, K.**, Kumarappan, N.“Particle swarm optimization based maintenance scheduling using levelized 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, 18th-23rdJuly 2010. Digital Object Identifier :10.1109/CEC.2010.5586306
21. **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, 9th-12thDecember 2010.
22. 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, 6th-7thMarch 2009.
23. 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.1–6,12th-15thOctober 2008. Digital Object Identifier: 10.1109/ICPST.2008.4745384

24. **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, 18th-22ndJune 2006.** Digital Object Identifier: 10.1109/PES.2006.1709254.
25. 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, 10th-12thApril 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. “Machine learning-based prediction system for Transformer overload conditions” Application number- 202521106001-**Intellectual Property Rights (IPR)**, Publication date : 28/11/2025
2. “Energy conservation apparatus for bypass capacitors during dynamic power loss and method thereof” Application number- 202441075399-**Intellectual Property Rights (IPR)**, Publication date : 18/10/2024
3. “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.
4. “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.
5. “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.

6. “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.
7. “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 “Integration of Electric Vehicles with Smart Grids: Adaptive Control Mechanisms for Suitable and Sustainable EV Charging Governance”, **IEEE International Conference** on 2025 International Conference on Digital Innovations for Sustainable Solutions (ICDISS), Faridabad, India, Vol.1, 14th-15th January 2026.
2. 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.
3. 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, 8th-9thDecember 2022.
4. 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..
5. 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 14thSeptember 2019.
6. Attended Two Days **National Conference** on the topic “**Digital Security**” held at Sri Manakula Vinayagar Engineering College, Puducherry from 26th- 27thJuly 2019.
7. 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 12th-14thDecember 2012.

8. 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 7th-9th December 2011.
9. 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 9th-12th December 2010.
10. 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 6th-7th March 2009.
11. 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 14th-16th February 2008.
12. Attended **AICTE sponsored** National Level Seminar on the topic “**Advances in Optical Networks**” organized by **Sri Manakula Vinayagar Engineering College, Puducherry, India** from 26th-28th July 2007.
13. Attended **AICTE sponsored** National Level Seminar on the topic “**Advances in Network and Communication**” organized by **Sri Manakula Vinayagar Engineering College, Puducherry, India** from 18th-20th October 2006.

Participation in Faculty Development Programme(FDP)

1. Attended **AICTE Training And Learning (ATAL) Academy** Faculty Development Program on “Emerging Trends in Digital Twin Technology for Hydrogen Production, Storage and Transport” conducted from 15/12/2025 to 20/12/2025, by Department of Electrical and Electronics Engineering, **Krishnasamy college of Engineering & Technology**
2. Attended **Wadhvani Faculty Development Program** to facilitate the **Wadhvani Foundation’s IGNITE PROGRAM AND ITS VARIANTS**. Date of Certificate Issue: 07-08-2025
3. Attended **Workshop on Six Days online FDP** on “Renewable energy, Electric Vehicle Charging, and Grid integration: An Introduction ” conducted from 12th Aug 2024 to 17th Aug 2024, by Department of Electrical and Electronics Engineering, **Sri Sai Ram Institute of Technology, Chennai**

4. 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.
5. 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.
6. Attended **ATAL Academy** sponsored “**Advanced FDP on Electronic System Design- IDEA LAB**” Organized by K.S.Rangasamy College of Technology (Autonomous) Tiruchengode, Namakkal, Tamilnadu, 21st- 27thJuly 2022.
7. Attended five days online FDP on "**Next Generation Energy Harvesting and Storage Technologies**" 12th-16thDecember,2022 Organized by Electrical and Electronics Engineering, **Bharath Institute** of Higher Education and Research, Bharath of Institute of Science and Technology, Chennai.
8. Attended Six Days Faculty Development Programme on “**Storage Technologies and Associated Control Techniques**” (Online), December 12th-17th, 2022 Organized by Electrical and Electronics Engineering, **SRM Institute of Science and Technology**, Chennai.
9. Faculty Development Programme (FDP) on“ **Electric Vehicle Engineering**” Organized by Department of EE&CE,NITTTR Chennai and AICTE-ATAL from25th- 29thOctober 2021.
10. 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 10th- 12thSeptember 2020.
11. 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 26th- 30thJune 2020.
12. Faculty Development Programme (FDP) on “**Modelling, Technologies and control on Electric Vehicle**” Organized by Department of Electrical and Electronics Engineering, AMET University from 25th- 30thJune 2020.
13. 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 11th- 15th2020.
14. Faculty Development Programme (FDP) on “**Technology towards man**” Organized by Instrumentation and Control Engineering, Sri Manakula Vinayagar Engineering College, Puducherry from 10th- 13thJune 2020.

15. Faculty Development Programme (FDP) on “**Renewable Energy Systems**” Organized by Department of Electrical and Electronics Engineering, RVS College of Engineering and Technology, Coimbatore from 1st- 5thJune 2020.
16. 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 Bapatla Engineering College, Bapatla from 1st- 5thJune 2020.
17. Faculty Development Programme (FDP) on “**Innovative Teaching Pedagogy in the Technical Institutions**” Organized by IQAC, KBT College of Engineering, Nashik from 1st- 5thJune 2020.
18. 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 10th-12thSeptember 2020.
19. Attended Faculty Development Programme on the topic “**Embedded System & Raspberry pi based IOT**” Organized by Sri Manakula Vinayagar Engineering College, Puducherry from 27thNovember 2018 - 13thDecember 2018.
20. Attended AICTE sponsored one day Work shop on “**Research and Development in Engineering Institutions**”, organized by Manakula Vinayagar Institute of Technology, Puducherry, India on 13thSeptember 2014.
21. 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.
22. Attended FDP on “**Intelligent Computing to Clean Energy**”, organized by **IEEE Madras Section**, held at Jeppiar Engineering College, Chennai, India from 7th- 8thOctober 2011.
23. Attended FDP “**Applications of Computational Intelligent Techniques in Power System**” organized by **IEEE Madras Section** held at Velammal Engineering College”, Chennai, India from 6th-7thFebruary 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, 10thDecember 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 18th-19th, 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 1st– 3rd June 2017.
6. Attended Institution of Engineers (India) sponsored two days Work shop on the topic “**Challenges and Opportunities in Power Electronics Research(CHOPPER)**” organized by E.G.S Pillay Engineering College, Nagapattinam, India from 21st– 22nd April 2016.
7. Attended Technical Workshop on the topic “**Smart Grid**”, organized by IEEE Madras Section, Chennai, India from 25th- 26th August 2012.
8. Participated 26th Indian Engineering Congress as a delegate organized by **The Institution of Engineers (India)** from 15th-18th 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 6th- 7th 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 19th- 23rd March 2007.
3. Attended AICTE sponsored SDP on “**Advances in Embedded and Wireless Technology**”, organized by Sri Manakula Vinayagar Engineering College, Puducherry, India from 18th- 28th 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 18th- 28th 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. Attended NPTEL-AICTE FDP on “**Learning Analytics Tools**” during July 2025-October 2025 (12 Weeks Course) in Sri Sri Sai Ram Engineering College, Chennai. Learning Analytics Tools
3. Completed NPTEL-AICTE FDP on “**Data Science for Engineers**” during January 2025-March 2025 (8 Weeks Course).
4. Completed NPTEL-AICTE FDP on “**Python for Data Science**” during July 2024-August 2024 (4 Weeks Course).
5. Completed NPTEL-AICTE FDP on “**Introduction to Machine Learning**” during July-October 2024 (12 Weeks Course).
6. Completed NPTEL-AICTE FDP on “**Introduction to Intellectual Property**” during January 2023-April 2023 (12 Weeks Course).
7. Completed NPTEL-AICTE FDP on “**Sustainable Power Generation Systems**” during July 2023-October 2023 (12 Weeks Course).
8. Completed NPTEL-AICTE FDP on “**Electric Vehicles - Part I**” during February 2020-March 2020 (4 Weeks Course).
9. Completed NPTEL-AICTE FDP on “**DC Microgrid**” during July 2019-September 2019 (8 Weeks Course).
10. Completed NPTEL-AICTE FDP on “**Advances in UHV Transmission and Distribution**” during January 2019-March 2019 (8 Weeks Course).
11. 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, 8th-9th 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, 8th-9th 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 6th– 7thFebruary 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 Pct Ltd, No.18, **SIDCO Industrial Estate**, Thirumudivakkam, Chennai-600132 during the period 2-3-22 to 8-3-22

ADVANCED CERTIFICATION PROGRAMME

- Successfully completed the 6-months Advanced Certificate Program in Electric Vehicle Design, conducted by iHUB Divya Sampark at the Indian Institute of Technology Roorkee. (November 24-July 25)

RESPONSIBILITIES

- Research Centre convenor
- IIPC Department Coordinator
- NIRF- SCOPE member-Graduation Outcomes
- IEEE Reliability Society-SCOPE member
- R&D- SCOPE member
- SCOPE member-Solveathon V
- SCOPE member NBA-Criterion I
- 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 5th 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 30th 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 30thSeptember 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 11thAugust 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, 12th-14thDecember, 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” deliveredby **Mr.S.M.Amuthan, General Manager(Operations), Bengaluru Metro Rail Limited, Bengaluru** on 20.07.2017,Sri ManakulaVinayagar Engineering College, Puducherry