




SRIRAM ENGINEERING COLLEGE

Perumalpattu, Veppampattu (RS), Chennai 602024 Tamil Nadu
(A Unit of Sriram Educational Trust)
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

DEPARTMENT - ECE

GENERAL INFORMATION

Name of the Faculty Member	Dr. L. Sivagami	
Present Designation	Assistant Professor & Head Incharge /ECE	
Educational Qualification	B.E, M.E, MBA, Ph. D	
Anna University ID , FIN Number	1126003, 2631001976	
AICTE ID Number	1451725449	
Scopus ID	57191647210	
Orchid ID	0009-0005-1461-1122	
Total Experience	25 Years	
Date of Birth	06.10. 1976	
Date of Joining	22. 08. 2002	
Area of Specialization	Wireless Sensor Networks, Digital Signal Processing	

PARTICULARS OF EDUCATIONAL QUALIFICATION

Degree / Diploma	Subject	University / Board	Year of Passing
Ph.D.,	Underwater Wireless Sensor Networks	Anna University	2020
PG/ MBA	Operations Research	Indira Gandhi National Open University	2010
PG / M.E	Embedded System Technologies	Anna University	2006
UG/ B.E	Electronics and Communication Engg	Madras University	1999

RESEARCH TITLES

Ph.D.,	Certain Investigations on Energy efficient cluster-based MAC Protocol with Adaptive duty cycle for Underwater Wireless Sensor Networks
PG/ M.E.	Implementation of pipelined FFT Processor

ACADEMIC & INSTITUTIONAL RESPONSIBILITIES

1. IQAC Coordinator
2. Head-Incharge of Department of ECE
3. Timetable Committee Co-Ordinator
4. Discipline Committee CO-coordinator
5. Optical and Microwave Lab Incharge

PROFESSIONAL MEMBERSHIP

ISTE Life Member

IAENG Member –id 541176

PATENT DETAILS

1. Predicting air quality and monitoring model using machine learning, Patent No. 202341005368, filed on 27.01.2023 in the Department of Industrial Policy & Promotion, Government of India. Published on 10. 02. 2023

2. Data lake with block chain and IOT enabled access control, Patent No. 202241035681, filed on 22.06.2022 in the Department of Industrial Policy & Promotion, Government of India. Published on 01.07. 2022

3. 3. Preventing Attacks On Cyber Automation System Based on Artificial Intelligence, Patent No. 202241042636, filed on 26.07.2022 in the Department of Industrial Policy & Promotion, Government of India. Published on 5.08.2022

FUNDED PROJECTS

Got a grant of Rs. 7500 for Students Project Scheme 2023-24 under Tamilnadu State Council for Science and Technology titled “Unmanned Aerial Vehicle for monitoring Transmission line breakage”, by Shreemathi. M. D and Robinson. R under my guidance.

JOURNAL PUBLICATIONS

1. Design and implementation of Smart Device for monitoring Gait parameters using RFDT.

International Journal of Innovative Research in Computer and Communication Engineering gy, Vol.12, Issue.7, pp. 9900-9908 July 2024.

2. An ensemble approach on predicting blood platelets using supervised approach via computational bio informatics. International Journal of Health Sciences, (Scopus Indexed) Vol. 6, Issue.8, pp. 3867-3878
September 29, 2022

3. Detection of Melanoma and Skin Diseases Based on the Fusion of Structural and Textural Features using Convolutional Neural Network. International Journal of Innovative Research in Science, Engineering and Technology, Vol. 10, Issue.4, pp. 3457-3465 April 2021

4. Extraction Of Structural And Textural Features By K-Means Clustering for the Detection Of Skin Diseases. International Journal for Science and Advance Research in Technology, Vol.6, Issue.12, pp. 197-203, December, 2020.

5. Dynamic Liver Deformation Images Positioned For Endoscopic Surgery Using Soundscape Through The Mems Sound Recognition. International Journal for Science and Advance Research in Technology, Vol.6, Issue.6, pp. 989-992, June, 2020.

6. Adaptive power control and Fuzzy-based duty cycle scheduling in Underwater wireless sensor networks. Sensor Letters, American Scientific Publishers, (Scopus Indexed) Vol.18, no.5, pp. 371-378,

May, 2020.

7. An encryption decryption scheme towards higher level cyber security of authenticated data.

International Journal of Innovative Research in Science, Engineering & Technology, Volume-8, Issue-3, March 2019.

8. Cluster based time synchronization algorithm for mobile UWSN. (AU, Annexure II).

International Journal of Recent Technology & Engineering, Volume 7-Issue 4S2, 2277- 3878, Dec, 2018.

9. Raw food and fruit quality inspection system using image processing. International Journal for Science & Advance Research in Technology, Volume-4, Issue-11, 2395-1052, November 2018.

10. Holocaust Conflict Robot. International Journal of Science Technology & Engineering (IJSTE).

Volume3, Issue 8, Feb 2017.

11. Design of aquatic Robo for underwater Monitoring System. International Journal for Science &

Advance Research in Technology(IJSART). Volume3, Issue 1, Jan 2017.

12. Traffic Control using Wireless Sensors. International Journal for Science & Advance Research in

Technology(IJSART). Volume3, Issue 1, Jan 2017.

13. An Optimized Time Synchronization Algorithm for Mobile Submarine Sensor Networks. (AU,

Annexure II). International Journal of Control Theory and Applications, IJCTA, Vol-9, Issue12, pp. 5727-5731, ISSN : 0974-5572, September, 2016 Serial Publications International Science Press

14. Cluster-Based MAC Protocol for Collision Avoidance and TDMA Scheduling in Underwater Wireless

Sensor Networks. (AU, Annexure I). The Computer Journal, Vol-59 Issue-10 pp. 1527-1535, Oxford Publications October 2016,

PAPERS PRESENTED IN CONFERENCES/SYMPOSIUMS

1. **“AI – Powered Embedded Emotion Intelligence Framework for mental health monitoring”.** T.J.S Engineering College - National Conference on Science, Engineering and Technology, 11th April 2026
2. **“ Design of women safety system with nerve simulator using IoT”**, Sriram Engineering College- International Conference on Nexus of knowledge using AI & IoT on 11th and 12th April, 2025.
3. **An optimized time synchronization algorithm for mobile underwater sensor networks.** Saveetha School of Engineering - International Conference. 10th&11th March 2016
4. **Enhancement of battery lifespan of underwater communication.** SriRangapoopathi college of Engineering - International Conference. 19th March 2016.
5. **Energy efficient resource allocation in OFDM System with wireless transmission.** Velammal Engineering College - National Conference, 13th March 2015.
6. **Multiple Adaption Power Control For Energy competence using Error Control Codes.** Saveetha University - International Conference, 21st Jan 2013.
7. **Adaptive Power Control For Energy Efficiency in WSN using ECC.** VIT-Vellore International Conference, 20th November 2012.
8. **Optimal performance for minimum delay and maximum lifetime for wireless sensor network with any cast using non poisson wake up process.** KCG College Of Technology, Karapakkam, National Conference, 30th March 2012.

9. **Efficient data transmission with energy consumption over a wireless sensor networks.** SA Engineering college, International Conference, February 2012.
10. **Survey of energy efficient protocols for wireless sensor networks.** VIT-Vellore International Conference, January 2012.
11. **FPGA implementation of FFT processor for MIMO OFDM Applications.** K.S.R College Of Engineering, National Conference, 18th and 19th March 2011.
12. **Contrast enhancement of color images using tunable sigmoid function.** Kamarajar college of engineering and technology, National Conference, 11th March 2011.

CONFERENCES, SEMINARS AND WORKSHOPS ATTENDED

Five days Webinar series on “Roadmap to India AI Future”, organized by Hindustan Institute of Tecnology and Science on 2.2.26 – 6.2.26

Webinar organized by Department of Electrical & Electronics Engineering, in association with ISTE Students Chapter at Madanapalle Institute of Technology and Science, Chittoor, Andhra Pradesh.on Application of Artificial Intelligence (AI) in Induction Motor (IM) Drive on 17.7.21

Webinar organized by Department of Electrical and Electronics Engineering, DMI College of Engineering, Chennai on Recent Trends in EV Technology on 9.7.2021 .

National Webinar organized by Department of Electrical and Electronics Engineering & IIC, MSAJCE, Chennai- Career Opportunities in EV Industry on 12.7.2021

NPTL, SWAYAM AND OTHER CERTIFICATIONS:

Got ‘ Best Teacher Award ‘ from Lion’s Club of Chennai on 28th September 2025.

Attended 6 days Online FDP on “Emerging Trends in IoT ‘, conducted by Sriram Engineering College from 16.3.2026 – 21.3.2026

Attended 5 days Online FDP on “Recent advances in machine learning –emerging tools, techniques and applications’, conducted by Prathyusha Engineering College- Chennai from 24.11.2025 – 28.11.2025.

Attended 5 days Online FDP on “Nex-Gen AI-powered Edge computing architectures for Embedded IoT”, conducted by R.P. Sarathy Institute of Technology – Salem, from 13.10.2025- 17.10.2025

Attended 5 days Online FDP on “Advancements and Emerging Technologies in Mechanical and Aerospace Engineering, conducted by Global Society for Technical Education, from 23. 06. 2025 to 27. 06. 2025

Attended 5 days Online FDP on “Recent trends in Nanodevices, materials and its applications”, conducted by SIMATS, Chennai from 26.02.2024 – 02.03.2024

Attended 6 days Online FDP on “ Building a sustainable future, Role of renewable energy”conducted by Panimalar Engineering college, Chennai from 23. 12. 2024 to 28. 12. 2024

Attended 6 days Online FDP on “ Emerging trends in advanced image and video processing techniques” conducted by Rajalakshmi Engineering College- Chennai from 05.01.2023 -11.01.2023

Attended 5 days Online FDP on “Advanced Technologies in Electrical Engineering Research conducted by Sairam Institute of Technology , Chennai from 01. 08. 2022 to 05. 08. 2022

Attended 5 days Online FDP on “Intellectual Property Rights”, jointly organised by IPR Cell & Department of Management Studies, SKIT, Jaipur from 18th January - 22nd January 2022.

Attended Training Programme organized by Research Foundation of India, JHERF and Academic Research Guide on Paradigm shifts in Higher Education from 17.07.2021-21.07.2021

Attended FDP organized by Department of ECE, Sairam Institute of Technology on Robotics & Automation from 26.07.2021- 30.07.2021 (AN)

Attended National Level Virtual FDP organized by Department of IT, GMR Institution of Technology, Srikakulam, Andhra Pradesh on Deep Learning & Machine Learning Applications in Computer Vision from 26.07.2021- 30.07.2021 (FN)

Attended A One-week National Online FDP organized by GMR Institution of Technology, Srikakulam, Andhra Pradesh on Emerging Trends in the Applications of Machine Learning and Artificial Intelligence from 21.06. 2021- 26.06.2021

Attended Online FDP organized by Department of Biomedical Engineering, SSN College on Precision Health Care Technology from 28.06. 2021- 02.07.2021

Attended FDP organized by Anna University, Chennai in association with St. Joseph's College of Engineering, Chennai on Digital Image Processing from 07.06.2021- 12.06.2021

SUPERVISERSHIP (IN NUMBERS)

Ph.D.,	Nil
PG.	05
UG.	20