Sri Sai Ram Engineering College

Department of Information Technology

Name :	**B.Renukadevi**
Designation:	Associate Professor
Qualification :	M.E.,(Ph.d.,)
Area of Specialization :	Programming and data structures Internet of Things Cryptography and Network Security Machine Learning
Experience :	Teaching: - 14.06 Yrs. UG: - 14.06 Yrs
	Industry : - NIL
No. of workshop / Conferences / FDP attended :	FDP :- 35 National Conference:-2 International Conference:-22

Publication :	Journal
	      National : - 5
	      International : - 10

	Conference
	      National :- 2
	      International :- 27

Research Guidance : -	Nil
Membership:	Member in Indian Society for Technical Education- ISTE Senior Member in IEEE : 98057888 Member in International Association of Engineers - IAENG
Achievements:	IEEE Stem Champion 2023 Conducted various IEEE Funded events NPTEL Discipline Star Certified for completing course on Panchayat Administration and Rural Development Schemes

Workshop / Conferences / FDP attended:

Faculty Development Program/Workshop

1. Participated in the Faculty Development Program on "Recent Advancements in Machine Learning: Emerging Tools, Techniques and Applications " conducted by Department of CSE - AIML, Prathyusha Engineering College during 24.11.25 to 28.11.25.

2. Participated in the Faculty Development Program on "OFFENSIVE Security" conducted by CyberHeals during 30.06.24 to 05.07.24.

3. Participated in the Faculty Enhancement Program on "Generative AI" conducted by Infosys during 18.11.24 to 22.11.24.

4. Participated in the workshop on "Generative AI using WatsonX" on 2.11.24 by IBM.

5. Participated in the Faculty Development Program on "Artificial Intelligence for Edge Computing" conducted by Thiagarajar College of Engineering during 8.5.2023-12.5.2023.

6. Participated in the Faculty Development Program on "IoT Basics" conducted by NITTTR, Chandigarh during 24.4.2023 - 28.4.2023.

7. Participated in the Faculty Development Program on "No Code Low Code" conducted by Sri Sairam Engineering College during 19.12.22-23.12.22.

8. Participated in the ATAL Faculty Development Program on "Collaborative Robots and Drones: Controls, AI Techniques, and Applications on Industry 4.0" conducted by Amrita School of Engineering, Chennai from 05.12.2022 to 16.12.2022.

9. Participated in the Faculty Development Program on "Enhancing Soft Skills and Personality Outcome-Based Education:A Paradigm for Assessment and Accreditation" conducted by NPTEL during Feb-April 2021.

10. Participated in the Faculty Development Program on "Outcome-Based Education:A Paradigm for Assessment and Accreditation" conducted by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 24th August to 28th August 2021.

11. Participated in the Faculty Development Program on "Six Sigma for Industrial Projects" conducted by MHRD Institution Innovation Council (SEC-IIC) at Sri Sai Ram Engineering College on 1st February 2021.

12. Participated in the ATAL Faculty Development Program on "Green Technology and Sustainable Engineering" conducted by St.Joseph's Institute of Technology from 14.12.2020 to 18.12.2020.

13. Participated in the Workshop on "Case Analysis and Development" conducted at Sri Sai Ram Engineering College from 18.12.2020 to 23.12.2020.

14. Participated in the Short term training program on "Medical Image Analysis" conducted by the department of ECE at V.S.B. Engineering College from 2-7.11.2020.

15. Participated in the Workshop on "Research challenges in Wireless sensor network and Opportunities in IoT" conducted at Muthayammal Engineering College on 17.10.2020.

16. Participated in the ATAL Faculty Development Program on "Data Sciences" conducted by National Institute of Technology-Karnataka from 21.9.2020 to 25.9.2020.

17. Participated in the ATAL Faculty Development Program on "Cybersecurity" conducted by BMS Institute of Technology and Management from 7.9.2020 to 11.9.2020.

18. Participated in the Train the trainers program conducted by Centre or University - Industry Collaboration(CUIC), Anna University during 18.6.2020 and 19.6.2020.

19. Participated in the Faculty Development Program on "Cybersecurity Techniques and Tools" conducted by the Department of Information Technology in Sri Sai Ram Engineering College on 15.6.2020 to 19.6.2020.

20. Participated in the ATAL Faculty Development Program on "Internet of Things(IoT)" conducted by Jawaharlal Nehru University,New Delhi from 31.5.2020 to 4.6.2020.

21. Participated in the ATAL Faculty Development Program on "Augmented Reality(AR) and Virtual Reality(VR)" conducted by Indian Institute of Technology, Patna from 25.5.2020 to 29.5.2020.

22. Participated in the Faculty Development Program on "Tools explored in disruptive technologies" conducted by the Department of Information Technology, Sri Sai Ram Institute of Technology from 11th-16th May 2020.

23. Participated in the Faculty Development Program on "Robotic Process Automation" conducted by Jeppiaar Institute of Technology from 4th-6th May 2020.

24. Participated in the Faculty Development Program on "Data Science with Python" conducted Online by ICT Academy, during 23ird-29th April 2020.

25. Participated in the Faculty Development Program on "Methodologies & Practices for Profitable research through patents & IPR" conducted by Allinnov R&D.(P).Ltd. at Sri Sai Ram Engineering College on 4th January 2019.

26. Participated in Curious Program conducted by IITM's HTIC MedTech Incubator at Indian Institute of Technology Madras Research Park, Chennai from 24th-25th January 2019.

27. Participated in "Ideation and Proposal Formulation Workshop" conducted by Rural Technology Action Group, IIT Madras, Chennai from 9thNovember 2018.

28. Participated in Faculty Development Program on "ILP XPlore Orientation Program" conducted by Tata Consultancy Services at Tata Consultancy Services ILP Centre from 22nd-25th January 2018.

29. Participated in the Faculty Development Program on "Problem Solving and Python Programming" conducted by the Department of Information Technology, Sri Sai Ram Institute of Technology from 5th-6th June 2018.

30. Participated in Faculty Development Program on "CS6703-Grid and Cloud Computing" conducted by Centre for Faculty Development, Anna University, Chennai at Sri Sai Ram Institute of Technology from 8th-16th June 2017.

31. Participated in Faculty Development Program on "CS6701-Cryptography and Network Security" conducted by Centre for Faculty Development, Anna University, Chennai at SSN College of Engineering from 9th to 16th June 2016.

32. Participated in the Faculty Development Program on "CS6551-Computer Networks" conducted by Centre for Faculty Development, Anna University, Chennai at Sri Sai Ram Institute of Technology from 6th-13th January 2016.

33. Participated in the Faculty Development Program on "Cloud Computing and Big Data" conducted by the Department of Computer Science and Engineering from 8th-9th December 2014.

34. Participated in the Faculty Development Program on "Software Testing" conducted at Tata Consultancy Services, Siruseri on 14th November 2014.

35. Participated in Faculty Development Program on "Network Simulators for Research Issues in Wireless Technology, NSRIWT 2012" conducted by Department of Information Technology in Bannari Amman Institute of Technology, Sathyamangalam from 27th February-04th March 2012.

International Conferences

1. Presented a paper titled "Language Learning Tool with Speech Recognition Assistance" 2025 International Conference on Computing and Communication Technologies (ICCCT) held in Sri Sairam Engineering College, Chennai during 16-17 April 2025.

2. Presented a paper titled "Multilingual Hand Gesture Recognition for Deaf and Dumb People Using NLP and CV" 2025 International Conference on Computing and Communication Technologies (ICCCT) held in Sri Sairam Engineering College, Chennai during 16-17 April 2025.

3. Presented a paper titled "Personalized Music Recommendation System Based on Real-Time Facial Expression Analysis for Enhanced Emotional Experience" 2025 International Conference on Computing and Communication Technologies (ICCCT) held in Sri Sairam Engineering College, Chennai during 16-17 April 2025.

4. Presented a paper titled "Precision Hydration for Plant Optimization" 2024 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS) held in Sri Sairam Engineering College, Chennai during 08-09 October 2024.

5. Presented a paper titled "Player Performance Prediction in Sports Using Machine Learning" in 2024 International Conference on Intelligent Systems for Cybersecurity (ISCS) held in The NorthCap University, Gurugram, India during 03-04 May 2024.

6. Presented a paper titled "Health Analysis and Prediction Using Machine Learning" in 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT) held in Sri Sairam Engineering College, Chennai during 17-18 April 2024.

7. Presented a paper titled "Enhancing Accessibility and Inclusivity For People With Disabilities Using Hand Gesture Recognition" in 2024 10th International Conference on Communication and Signal Processing (ICCSP) held in Adhiparasakthi Engineering College Melmaruvathur during 12-14.04.24.

8. Attended the 2nd International Conference on Deep Sciences for Computing and Communications and presented a paper titled "Containment Zone Alert Application" organized by the Department of Computational Intelligence, SRM Institute of Science and Technology, Chennai on 20-22.04.23.

9. Attended the 2023 International Conference on Networking and Communications (ICNWC) and presented a paper titled "An Early Prediction Model for Chronic Kidney Disease Using Machine Learning" organized by the Department of Networking and Communications, SRM Institute of Science and Technology, Chennai on 5,6.04.23.

10. Attended the 2022 1st International Conference on Computational Science and Technology (ICCST) and presented a paper titled "PICKIT-BE SAFE WITH US" organized by the Department of CSE, Sri Sairam Engineering College, Chennai on 9,10.11.22.

11. Attended the 2022 1st International Conference on Computational Science and Technology (ICCST) and presented a paper titled "Automatic Forensic Analysis of Criminal Navigation System using Machine Learning" organized by the Department of CSE, Sri Sairam Engineering College, Chennai on 9,10.11.22.

12. Attended 2022 8th International Conference on Smart Structures and Systems (ICSSS) and presented a paper titled "NATURISTA: Online Herbal Care WebApplication" organized by the Department of ECE, Saveetha Engineering College, Chennai on 21,22.04.2022.

13. Attended 4th International Conference on Computing and Communications Technologies and presented a paper titled "The essential technique for farm controlling using cloud-based wireless communication IoT systems" organized by the Department of IT, Sri Sairam Engineering College, Chennai on 16,17.12.21.

14. Attended 4th International Conference on Computing and Communications Technologies and presented a paper titled "Face Recognition Based Locker and Gesture Based Home Appliance Control System for Disabled People" organized by the Department of IT, Sri Sairam Engineering College, Chennai on 16,17.12.21.

15. Attended International Virtual Conference on Advances in Communication, Machine Learning, Embedded with Internet of Things (IVCACME-2021) and presented a paper titled " PICKIT-BE SAFE WITH US" on 09.04.2021 to 10.04.2021 organized by Department of Electronics and Communication Engineering at Kongu Engineering College, Perundurai, Erode.

16. Attended 2nd International E-Conference on Information, Communication and Networking(eICICN - 2021) and presented a paper titled "Face Recognition Based Locker and Gesture Based Home Appliance Control System for Disabled People" on 09.04.2021 and 10.4.2021 at Easwari Engineering College,Chennai.

17. Attended First International Conference on Advances in Computational Science and Engineering (ICACSE 2020) and presented a paper titled "RASPBERRY PI BASED SECURED CLOUD DATA" held at Cloudin Technologies, Coimbatore, Tamil Nadu, India during 25-26, December 2020.

18. Attended First International Conference on Advances in Computational Science and Engineering (ICACSE 2020) and presented a paper titled "HYBRID ALGORITHM IN IDENTIFYING THE PLANT DISEASE AND TO SUGGEST MEDICAL ADVICE" held at Cloudin Technologies, Coimbatore, Tamil Nadu, India during 25-26, December 2020.

19. Attended International Conference on Computing, Communication and Control and presented a paper titled "Smart Watch - An Assistant for helping people with Respiratory problems" on 28th & 29th February 2020 at Sri Sairam Engineering College (SSEC), Sai Leo Nagar, West Tambaram, Chennai-600044

20. Attended International Conference on Computing, Communication and Control and presented a paper titled "Smart Scrutinizing System to Detect Trespassers and Alarm Ascendancy" on 28th & 29th February 2020 at Sri Sairam Engineering College (SSEC), Sai Leo Nagar, West Tambaram, Chennai-600044

21. Attended 2019 Third International conference on Computing and Communications Technologies (ICCCT'19) and presented a paper titled "Jaunt India with pre-planned Budget" in Sri Sai Ram Engineering College, Chennai during February 21st and 22nd 2019.

22. Attended international conference on "7th International Conference on Science and Innovative Engineering 2017" and presented a paper titled "Integration of Farmers and Industries using Android" in Jawahar Engineering College, Chennai during April 2nd 2017.

23. Attended international conference on "5th International Conference on Contemporary Engineering 2017" and presented a paper titled "A Digital Surveillance System for Air Pollution" in Madha Engineering College, Chennai during March 24th and 25th 2017.

24. Attended international conference on "Computing and Communications Technologies (ICCCT'17)" and presented a paper titled "Deep Packet Inspection Management Application in SDN" in Sri Sai Ram Engineering College, Chennai during February 23^{ird} and 24th 2017.

25. Attended tutorial session on "Internet of Things" in the International Conference on "Computing and Communications Technologies (ICCCT'17)" in Sri Sai Ram Engineering College, Chennai during February 23^{ird} and 24th 2017.

26. Attended tutorial session on "Advanced Computing Technologies" in the International Conference on "Computing and Communications Technologies" in Sri Sai Ram Engineering College, Chennai during February 26th and 27th 2015.

27. Attended tutorial session on "Cloud Computing and Semantic Web" in the International Conference on "Information, Systems and Semantic Web" in Sri Sai Ram Engineering College, Chennai during January 4th and 5th 2013.

National Conference

1. Attended 4th National Conference on Current & Emerging Process Technologies e-CONCEPT -2021", and presented a paper titled "Analysis of Hiring a Freelance Coder Website", organized by Department of Food Technology, Kongu Engineering College, Erode, Tamil Nadu, February 20,2021.

2. Worked as an Event coordinator in "2018 National Conference on Recent Trends in Computing and Technology (NCRTCT'18) held at Sri Sai Ram Engineering College on March 7, 2018.

National Journal

1. Published a paper on "Detection of Fake Product using Blockchain Technology" in International Journal of Novel Research and Development (IJNRD), ISSN: 2456-4184 Vol 7 issue 8, August 2022.

2. Published a paper on "Extending OVS With Deep Packet Inspection Functionalities" in Studies in Indian Place Names, ISSN: 2394-3114 Vol 40 issue 3 (s1) February 2020.

3. Published a paper on "Courier Service Management And Tracking Using Android Application" in Studies in Indian Place Names, ISSN: 2394-3114, Vol 40 issue 3 (s1), February 2020.

4. Published a paper on "AIR CHECK-For a Safe living Environment" in Journal of Emerging Technologies and Innovative Research, ISSN 2349-5162, April 2019.

5. Published a paper on "CROWD MONITORING SYSTEM" in Journal of Emerging Technologies and Innovative Research, ISSN 2349-5162, April 2019.

International Journal

1. Published a paper on "Hybrid algorithm in identifying the plant disease and to suggest medical advice", in Journal of Physics: Conference Series, Volume 1964, Issue 4, IOP Publishing, 2021.

2. Published a paper on "Raspberry pi based secured cloud data", in Journal of Physics: Conference Series, Volume 1964, Issue 4, IOP Publishing, 2021.

3. Published a paper on "Analysis of hiring a freelance coder website", in AIP Conference Proceedings, 2021.

4. Published a paper on "ECLASSROOM - An application for Sharing data and information between staff and student", in Artificial & Computational Intelligence, June 2020, ISSN:2582-516X

5. Published a paper on "Flora-Hub of Nurseries" in Test Engineering & Management, Issue Vol. 83: March/April 2020.

6. Published a paper on "Smart Watch - An Assistant for helping people with Respiratory problems" in Test Engineering & Management, Issue Vol. 83: March/April 2020.

7. Published a paper on "Smart Scrutinizing System to Detect Trespassers and Alarm Ascendancy" in Test Engineering & Management, Issue Vol. 83: March/April 2020.

8. Published a paper on "Jaunt India with Pre-Planned Budget" in IEEE Xplore, 2019, ISBN 978-1-5386-9371-1.

9. Published a Paper on "Deep Packet Inspection Management Application in SDN" in IEEE Xplore, 2017, ISBN 978-1-5090-6221-8.

10. Published a Paper on "MANET Routing Protocols Performance Evaluation in Mobility" in a book named Digital Communication by InTech Publishers in March 2012, ISBN 978-953-51-0215-1, page number: 67-78.

Seminar Given

1. Delivered a session on "Applications of Large Language Models" in the FDP on "Large Language Models" on 10.1.2025 in the Department of Artificial Intelligence and Data Science.

2. Delivered a Special Lecture series on "AI-Powered Automation with GEMINI" to Sathyabama Institute of Science and Technology on 20.8.2024.

3. Delivered an Inspirational Talk series on "Gemini 1.5 Pro" to ATAL Tinkering Labs on 6.7.2024.

4. Delivered a lecture in the short term course on "Javascript Programming" on "Introduction to Web Development" conducted by the Department of CSE on 3.10.2020.

5. As a Resource person for a Webinar session on "Exploring different tools to secure personal data" on 28.5.2020 at SNS College of Technology, Coimbatore.

6. As a Resource person delivered a lecture on the Traveling Salesman Problem in Design and Analysis of Algorithms on 9.2.2018 at Saveetha School of Engineering, Chennai.

7. Given Seminar on "Overview of Cryptography and Network Security " in Saratha College of Arts and Science, Gobichettipalayam on 18.03.17.

Program Organized

1. Acted as Coordinator for Hypernova 2025 - AI Hackathon conducted during 5,6 November 2025 in collaboration with IBM Skillsbuild and 1M1B.

2. Acted as Coordinator for "Physicsforge" an IEEE Computer Society funded event for Sairam Matriculation School Students during 8-10.10.2024.

3. Acted as coordinator for TechX an IEEE funded event by the Computer Society of India during 22-23.11.2023.

4. Acted as Coordinator for One-week Online ICT-based STC on "IoT Basics" to be held from 24 to 28.04.2023.

5. Acted as Coordinator for Boot Camp - IV on "Mobile Application Development" on 16/2/2023 & 17/2/2023.

6. Acted as Coordinator for One-week Online Practical Hands-on ICT-based STC on Cyber Crime and Forensic Tools" to be held from 23rd May to 27th May, 2022.

7. Acted as Coordinator and Organized "Technovacion'21" a three day INTERNATIONAL LEVEL VIRTUAL HACKATHON from May 13-15,2021.

8. Acted as Coordinator for a seminar on "Health Care Awareness through Data Analytics" in association with Computer Society of India (CSI) on 12th March 2019.

9. Acted as Co-coordinator for 2019 Third International Conference on Computing and Communication Technologies (ICCCT'19) in the department of Information Technology, Sri Sai Ram Engineering College on 21st & 22nd February 2019.

10. Acted as co-coordinator for 2018 National Conference on Recent Trends in Computing and Technology (NCRTCT'18) in the department of Information Technology, Sri Sai Ram Engineering College on 7th march 2018.

11. Acted as Co-coordinator for 2017 Second International Conference on Computing and Communication Technologies (ICCCT'17) in the department of Information Technology, Sri Sai Ram Engineering College on 23rd & 24th February 2017.

Value Added Course

1. Oracle Trainer - Java Fundamentals and Programming from 2016 onwards.
2. TCS preILP Trainer – ILPXplore Orientation Program from 2018 onwards.
3. Done Certification on Agile foundation using Jile in October 2018.
4. Diploma of completion certification on "Step into RPA" on 22.12.21.

Other Achievements

1. Awarded NPTEL Discipline Star July-Oct 2025.
2. Awarded IGEN Greenday 2024 by IGEN on 14.12.24.
3. Acted as Guest of Honour in ATL School "Shree Vidhyalaya Matriculation Higher Secondary School", Gobi on 27.1.23.
4. Selected as 2023 IEEE STEM Champion from Region 10, Madras Section.
5. Selected for 2nd Round of the 12th CSI-InApp International Student Project Awards 2023 held between 20th and 21st May 2023.

6. Finalists for 10th CSI-InApp International Student Project Awards 2021 held between 31st July 2021 to 1st Aug 2021.

7. Certified ISO 9001:2015 Internal Auditor from June 2018.

8. Mentor for the team "Attunities" in Smart India Hackathon 2018.

9. Completed NPTEL Online certification exam for the course "Internet of things" with "ELITE certificate" during January-April 2018.

10. Completed NPTEL Online certification exam for the course "Introduction to Programming in C" with "ELITE certificate" during July-September 2017.

11. Acted as Question Paper setter Vels University during Nov 2017 End Semester Exams.

12. Active Blood Donor.

13. Certified ISO 9001:2008 Internal Auditor form October 2014.

14. Mentor for the team "CHAR_SH" in Smart India Hackathon 2017.

15. Class coordinator for the batch 2013-2017.

16. Department Library In charge from 2013 to May 2020.

17. Completed NITTT Module 5 during September 2021.

18. Top 56 performing and most popular mentors for students in ATL Tinkerpreneur 2021.

19. Active instructor in Cisco NetworkingAcademy 21st September 2021.

20. Completed NPTEL Online certification exam for the course "Enhancing Soft Skills and Personality" with "ELITE certificate" during February-April 2021.

21. Received "OWR Best Teacher" award during September 2020.

22. Worked as a department Admission in-charge and admitted students 100% for the academic year 2021-2022,2022-2023.