

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

1. Name :	CHITHRA.V 
2. Designation:	ASSISTANT PROFESSOR
3. Qualification :	M.E, Pursuing Ph.D( Part-time)
4. Area of Specialization :	EMBEDDED SYSTEM TECHNOLOGIES
5. Experience :	Teaching : UG: 8 years 10 Days PG : 2 semesters Industry : NIL
6. No. of workshop : FDP attended :	WORKSHOP- 3 FDP : 32 STTP: 3
7. Publication :	<b>Journal</b> National : -International : <b>-Conference</b> National : - 1 ( submitted) International : 15
8. Research Guidance :	NIL

9. General :	<p>Roles and Responsibilities handled in previous institution:</p> <ol style="list-style-type: none"> <li>1. Placement Coordinator</li> <li>2. Test Coordinator</li> <li>3. Class Counsellor</li> <li>4. Result analysis In-charge</li> <li>5. Lab In-charge</li> <li>6. Faculty and student Profile In-charge</li> <li>7. Student personality developer</li> </ol>
10. Certifications:	<p>Certified Automation Engineer (PLC-SCADA), 2012</p>
11. Current achievements:	<div style="border: 1px solid black; padding: 10px;"> <ol style="list-style-type: none"> <li>1. NPTEL Top Performing Mentor</li> <li>2. Best Mentor Award</li> <li>3. Funded with TNSCST Student Project under my guidance – Project worth ₹7500</li> <li>4. Two YUKTHI Student Projects under my guidance selected for presentation in Malaysia</li> <li>5. Final year students won prize in Inspiration 1.0 – College Level Project Competition for Final Years</li> <li>6. Acted as reviewer in The 11th International Symposium on Hydrogen Energy, Renewable Energy and Materials (HEREM 2025).</li> </ol> </div>
12. Hobbies:	<ul style="list-style-type: none"> <li> Cooking</li> <li> Listening to music</li> <li> Sports: Shuttle, carrom, playing cards</li> <li> Gardening</li> <li> Singing Carnatic music</li> <li> Making spiritual connection with God, chanting mantras</li> </ul>

13. Roles and Responsibilities:

**1. Department Level Contribution:**

1. Co-Curricular and Extra-Curricular Activities – Coordinator
2. Digital Media Ambassador – Coordinator
3. Merit Scholarship – Coordinator
4. Result Analysis (2022 & 2025 Batch) – Coordinator
5. Nam Mudhalvan / Niral Thiruvizha – Coordinator
6. In-Lab – Coordinator
7. NBA Criterion 4 – Member
8. NAAC Criterion 7 – Member
9. VIDWAN – Member
10. ITIM LEAP Program – Coordinator
11. The Semiconductor Internship (2019–2023 Batch) – Coordinator
12. IIC – Coordinator
13. College Program Board – Coordinator
14. OBE Coordinator (Adutha Ilakku) – Banner Preparation – Coordinator
15. NPTEL IoT Mentor (2021–2025 Batch)
16. Taken IDEA Engineering Lab – Embedded Systems and IoT for 1st year ECE (2024–2025)
17. Mentorship and responsibilities:
  1. 100% Mentee placement in 2022 (13 got placed in campus interview + 1 opted Higher Studies).
  2. 100% Mentee placement in 2025 (12 got placed in campus interview + 2 opted Higher Studies + 1 issued with TC)

**2. Institution Level Contribution:**

1. IEEE DEIS SBC SEC – Advisor (From Feb 27, 2023) – Conducted 7 events with college funding
2. 7 HABITS- SCOPE TEAM-1 for monitoring 7-habits classes for 1 YEAR- CSE-A,B,C,& D SECTIONS.
3. IEEE Entrepreneurship Community – SCOPE Member (Executor)
4. SEC Inspirathon 1.0 – Overall

	<p>Coordinator, SCOPE Member (Executor)</p> <ol style="list-style-type: none"> <li>5. Collaborated with colleagues on curriculum development initiatives to ensure academic excellence.</li> <li>6. Conducted research projects, wrote manuscripts, and presented findings at professional conferences.</li> <li>7. Supervised independent research projects conducted by undergraduates or graduates.</li> <li>8. Planned events such as symposia or workshops designed to advance knowledge in a particular area of expertise.</li> <li>9. Provided instruction and guidance to undergraduate and graduate students in the classroom setting.</li> <li>10. Advocated for students through participation in committees focused on faculty-student interactions.</li> <li>11. Developed and implemented innovative teaching methods that enhanced student engagement and learning outcomes.</li> <li>12. Created assessment tools for evaluating student performance in coursework.</li> </ol>
<p>10. Achievements:</p>	<p><b>Previous Achievements:</b></p> <ol style="list-style-type: none"> <li>1. Have received cash awards in many subjects for producing more than 80 % results in AU end semester exams.</li> <li>2. Good student feedback.</li> </ol> <p><b>Current achievements:</b></p> <ol style="list-style-type: none"> <li>1. Received TOP PERFORMING MENTOR certificate from NPTEL for the course JOY OF COMPUTING USING PYTHON.</li> <li>2. Got an industrial project opportunity ‘Industrial gas monitoring and control’ for the final year project batch in ORCHID PHARMA LTD.</li> <li>3. Received TOP PERFORMING MENTOR certificate from NPTEL for the course INTRODUCTION TO INTERNET OF THINGS.</li> <li>4. Completed NPTEL Enhancing soft skills with personality development with ELITE SILVER MEDAL.</li> <li>5. Have a certificate in Building a face</li> </ol>

	<p>recognition application using python as a part of AI-for India Event.</p> <p>6. Have participated in GUVI-Guinness world record event-Most users to take an Online computer programming lesson in 24 hours</p>
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## EXPERIENCE:

Name of the Employer	Position Held	Period	
		From	To
1. C.ABDUL HAKEEM COLLEGE OF ENGINEERING AND TECHNOLOGY, RANIPET, TAMILNADU.	ASSISTANT PROFESSOR	03.07.2017	30.04.2020
	ASSISTANT PROFESSOR	06.08.2020	TILL DATE
2. SRI SAI RAM ENGINEERING COLLEGE-CHENNAI			

## SKILLS

- Curriculum Development, Research Methodology, Data Analysis
- Embedded Systems, IoT Applications
- Student Mentoring, Collaborative Teaching, Academic Advising
- Event Planning, Assessment Design, Effective Communication,
- Team Leadership, Problem Solving, Technical Writing, Resource Allocation
- Multitasking and Organization, Interdisciplinary Knowledge, Project Leadership
- Student Engagement, Lab Safety, Technology-Based Curriculum
- Student Needs Assessment, Student Counseling, Online Teaching,
- Academic Research, Classroom Administration
- Interdisciplinary Collaboration, Lecturing,
- Student Research Guidance, Grading, Teaching Excellence,
- Technology Implementation, Online Learning Tools,
- Effective Lecturing Techniques, Peer-Reviewed Publishing
- Subject Matter Expertise.

## **TOOLS & TECHNOLOGIES:**

Tools: MATLAB, KEIL, Proteus IDE

Languages: C, Java (Basics)

Domains: Embedded Systems, IoT, Robotics, Image Processing, Power Electronics

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

### **Faculty Development Program:**

1. Attended 5 days Faculty Development Programme on 'Matlab and R tools' conducted by Department of Information and Technology 1st week of August, 2018, at C. Abdul Hakeem College of Engineering and technology, Vellore.
2. Attended two weeks online Faculty Development Programme on "Machine learning techniques for imaging and health care with python" from 28.01.2021 to 10.02.2021 organized by Department of Instrumentation and Control Engineering, at Sri Sairam Engineering College-Chennai.
3. Attended five days ISTE sponsored a virtual Faculty Development Programme on "Renewable Energy Systems" from 08.02.2021 to 12.02.2021 organized by the Department of Electrical and Electronics Engineering, at Sri Sairam Engineering College-Chennai.
4. Attended five days Skill Development Programme on "Python programming" from 08.02.2021 to 12.02.2021 organized by Department of Computer Science and Engineering, at Sri Sairam Engineering College-Chennai.
5. Attended AICTE Training And Learning (ATAL) Academy Online Faculty Development Programme on "Sustainability Engineering" from 22.02.2021 to 26.02.2021 at Canara Engineering College.
6. Attended six days online Short Term Training Programme on "Emerging Trends and Research Challenges in Next Generation Wireless Networks" organized by Department of Electronics & Communication Engineering, Kongunadu College of Engineering and Technology, Trichy from 15.03.2021 to 20.03.2021.
7. Attended six days online Short Term Training Programme on "Emerging Trends and Research Challenges in Next Generation Wireless Networks" organized by Department of Electronics & Communication Engineering, Kongunadu College of Engineering and Technology, Trichy from 29.03.2021 to 03.04.2021.
8. Attended AICTE sponsored online two weeks Faculty Development Programme on "Trends and Challenges in Power Converters and Control-Slot II" Organised by Department of Electrical Electronics Engineering, College of Engineering Guindy, Anna University, Chennai from 04.05.2021 to 18.05.2021.
9. Attended AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Telemedicine and Digital Healthcare: Opportunities & Threats" from 17.05.2021 to 21.05.2021 at Rabindranath Tagore University.
10. Attended AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Signal Processing and Machine Learning for AI-Driven Healthcare Systems" from 23.06.2021 to 27.06.2023 at IIT Patna.
11. Attended 5-day AICTE-ATAL sponsored Faculty Development Program on "Artificial Intelligence: Applications in Modern Scenarios" from 05.07.2021 - 09.07.2021 conducted by Department of Computer Science & Engineering, M.B.M.

- Engineering College, Jai Narain Vyas University, Jodhpur (RAJ).
12. Attended 5-days online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 12.07.2021 - 16.07.2021.
  13. Attended AICTE Sponsored Online STTP - Application of Machine Learning and Artificial Intelligence Techniques for Control of Future Grid, 02.08.2021 - 07.08.2021 at Department of Electrical and Electronics Engineering, NMAM Institute of Technology.
  14. Attended 4-days online FDP on “Recent trends in energy and power systems” organized by “the school of electrical engineering (SELECT)”, VIT-Chennai from 06.09.2021 to 09.09.2021.
  15. Attended 5-days online FDP on “Research challenges in electrical engineering and the solution with software” held from 20.12.2021 to 24.12.2021.
  16. Participated in the one week Online Faculty Development Program on "AI Applications to Power Systems" during, 17.01.2022 - 22.01.2022 organised by Department of Electrical & Electronics Engineering, Siddaganga Institute of Technology, Tumakuru.
  17. Attended six-days Faculty Development Training Programme on DIGITAL SIGNAL PROCESSING conducted in ONLINE MODE by the Department of EEE at Kingston engineering College, Vellore from 11.07.2022 to 16.07.2022.
  18. Participated in the AICTE Recognized Faculty Development Programme on MATLAB and SIMULINK basics for Hardware Projects Conducted by Electrical Engineering Department from 01.08.2022 to 05.08.2022 at NITTTR-CHANDIGARH.
  19. Successfully completed the Faculty Development Workshop on “Product Engineering for Real-Life Problems” held at “IIT Madras Research Park, Chennai” From 28.09.2022 - 30.09.2022.
  20. Attended And Completed AICTE Training And Learning (ATAL) Academy Sponsored Faculty Development Program (FDP) On “Integration Of Renewable Energy Technology For Smart Ships And Hands-On Training In Solar System Design Using Simulation Software " from 31.10.22 To 11.11.22 In Hybrid Mode. Programme Conducted By The Department Of Electrical And Electronics Engineering (AMET University-Chennai).
  21. Attended & Completed Successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP On "Accrediation And Outcome Based Pedagogic Principles For Effective Teaching" From 14.11.2022 - 19.11.2022 At Academy Of Maritime Education And Training Deemed To Be University.
  22. Attended And Completed five days FacultyDevelopment Program(FDP) On "Recent trends in 5G communication networks" From 26.12.2022 to 30.12.2022 conducted by the department of Electronics and Communication Engineering of Sri Sairam Engineering college, Chennai.
  23. Attended And Completed three days Faculty Development Program (FDP) On "How teachers can make a difference" From 07.02.2023 to 09.02.2023 conducted by Teaching Learning Center (TLC) Indian Institute of Technology Madras Chennai 600036 India.
  24. Attended 5-days online FDP on the theme “Inculcating Universal Human Values in Technical Education-PART II” organized by All India Council for Technical Education(AICTE) from 13.02.2023 to 18.02.2023.
  25. Attended the One Week Faculty Development Programme on “Strategies for AI-Driven Engineering Solutions”, conducted from 10.07.2023-15.07.2023 organized by the Department of EEE, Panimalar Engineering College, in association with IEEE

- Madras Section, ISTE, and IEI.
26. Actively participated in the Faculty Development Programme on “Quantum Computing”, organized by Sri Sairam Engineering College from 27.05.2024-01.06.2024
  27. Completed the One Week Faculty Development Programme / Short Term Training Programme on “Principles of Waste Management”, organized by NITTTR, held from 17.06.2024-21.06.2024.
  28. Participated in the Faculty Development Programme on “Emerging EV Technologies”, organized by the Department of EEE, Sri Sairam Engineering College, in association with the IEEE Power Electronics Society Student Branch Chapter, held from 17.03.2025-21.03.2025.
  29. Actively participated in the Five Days Online Faculty Development Programme on “Advanced Power Electronics & Intelligent Control for Sustainable Electric Mobility and Renewable Energy Systems”, organized by the Department of Electrical and Electronics Engineering, Sairam Institutions, held from 05.05.2025-09.05.2025.
  30. Participated in the Two Weeks Faculty Development Programme on “Green Technologies in Electrical Engineering: A Path to Sustainability”, organized by the Department of Electrical and Electronics Engineering, AMET Deemed to be University, Chennai, held from 19.05.2025-30.05.2025.
  31. Completed APPLE TEACHER CERTIFICATION on 01.12.2025.
  32. Participated in the five days Faculty Development Programme on “AI Driven pedagogy: Transforming teaching practices into intelligent tools”, organized by the Department of CSE, Sri Sairam Engineering College, in association with the IEEE Computer Society of India, held from 01.12.2025-05.12.2025.

#### **Courses/workshops completed:**

1. Completed 3 month certification course on SIRD (STATE INSTITUTE OF RURAL DEVELOPMENT and PANCHAYAT RAJ).
2. Successfully Completed the Course on Social Emotional Education: Knowledge
3. to Practice (SEEK) organized by UNESCO MGIEP, Nov 2025
4. Completed NPTEL course “Python for data science” with ELITE certificate-63% in July-Aug-2025 Examination.
5. Completed NPTEL course “Learning Analytics Tools” with ELITE certificate -67% in July-Aug-2025 Examination.
6. Attended and completed the One-Day Hands-on Workshop on “National Education Policy 2020 – Technology Integration” on 12.03.2024, organized by Scrollwell in collaboration with the Internal Quality Assurance Cell (IQAC), Sri Sairam Engineering College.
7. Completed 8 modules in NITTTR course.
8. I attended a 12 weeks NPTEL Online course for “Digital circuits”.
9. Completed NPTEL course ‘Enhancing soft skills with personality development’ with ELITE SILVER MEDAL with 77%.
10. Completed a three months IAO, ISO certified course in PLC, SCADA, VFD & PFI from April 2012 to June 2012 at Technocrat automations-Chennai.
11. Attended Two weeks workshop on “Embedded systems” in April 2017 Blue chip Technologies-Chennai.
12. SSA101x: Hands-on training on Solar Study Lamp Assembly:- An online course, recognized by Skill Council for Green Jobs, conducted from 01 May 2019 to 31<sup>st</sup> Dec 2019 for Student Solar Ambassador Workshop 2019. This course is offered by IIT-BombayX, an online learning initiative of Indian Institute of Technology Bombay.

13. Attended One day workshop on 'Comsol multiphysics simulation tool' conducted by Department of Electrical and Electronics Engineering on 17.10.2019 at VIT, Vellore.

### **In-plant training:**

1. Successfully undergone One Week "Faculty Industrial Training Program" at I.P.L. PRODUCTS, Plot No. 48, Sidco Industrial Estate, Thirumudivakkam, Chennai - 132 during the period 13.06.2022 to 18.06.2022.
2. Successfully Completed 8 days In-plant training at southern railways (ICF-Perambur, Chennai) from 17.06.2013 to 24.06.201.

### **Journal and Conferences/Paper Presentations:**

#### **2025:**

1. "Zigbee Based Navigation of an Agricultural Robot Using Track Planning and Shape Recognizing Algorithm" – Presented at the 2025 International Conference on Computing and Communication Technologies.

#### **2024:**

2. "EV Wireless Charging Empowered by Solar Innovation" – Presented and Published in the 2024 International Conference on Power, Energy, Control and Transmission Systems.
3. "Dynamic Wireless Electric Vehicle Charging System With Integration of Square Coils and Solar Energy" – Presented and Published in the 2024 International Conference on Power, Energy, Control and Transmission Systems.
4. "Accident Avoidance and Response System" – Presented and Published in the 2024 International Conference on Power, Energy, Control and Transmission Systems.
5. "Grow Light and Plant Monitoring System for Indoor Gardening" – Presented and Published in the 2024 International Conference on Power, Energy, Control and Transmission Systems.
6. "Glossa Recognition for ATM Security Based on Image Processing" – Presented and Published in the 2024 International Conference on Communication, Computing and Internet of Things.

#### **2023:**

7. "Smart Mobile Electrocardiogram Monitor" – Presented and Published in 2023 Intelligent Computing and Control for Engineering and Business Systems.
8. "Density-based Traffic Control and Stolen Vehicle Detection Using Arduino and RFID" – Presented and Published in 2023 Intelligent Computing and Control for Engineering and Business Systems.

**2022:**

9. “Smart Sprinkler System Using Raspberry Pi” – Presented in the 2022 International conference on COMMUNICATION COMPUTING & IOT held on 10.03.2022 - 11.03.2022 and Published in the 2022 International Conference on Communication, Computing and Internet of Things.

10. “Industrial Environmental Monitoring and Rectifying System” – Presented in the 2022 International conference on COMMUNICATION COMPUTING & IOT held on 10.03.2022 - 11.03.2022 and Published in the 2022 International Conference on Power, Energy, Control and Transmission Systems.

11. “An Intelligent Approach for Electricity Generation: Microbial Fuel Cell” – Presented in the 2022 International conference on COMMUNICATION COMPUTING & IOT held on 10.03.2022 - 11.03.2022 and Published in the 2022 International Conference on Power, Energy, Control and Transmission Systems.

12. “An Astute Rescue System for Enhanced Security Using Facial Recognition” – Presented in the 2022 International conference on COMMUNICATION COMPUTING & IOT held on 10.03.2022 - 11.03.2022 and Published in the 2022 International Conference on Power, Energy, Control and Transmission Systems.

13. “Design and Development of PV Powered Intergraded DC-DC Converter Fed Multilevel Inverter for Standalone Application” – Presented at the 2022 International Conference on Future Trends in Smart Communities (ICFTSC).

14. “Design and Development of Holographic Fan” – Published in Elementary Education Online, Volume 19(2), Pages 1809–1809.

**2018:**

15. “LINGUA RECOGNITION FOR ATM SECURITY IMPROVEMENT BASED ON IMAGE PROCESSING METHODS” – Published in the International Journal of Pure and Applied Mathematics, Volume 119(7), Pages 1061–1067.

**PATENT:**

S.NO	TITLE	APPLICATION NO	STATUS
1.	INTERNET OF THINGS (IOT) BASED REMOTE HEALTH MONITORING SYSTEM WITH LONG RANGE(LORA)WIRELESS NETWORK	202311003117 A	<b>Published</b>
2.	NOVEL ARTIFICIAL INTELLIGENCE GUIDED SYSTEM TO ROOT THE NANOPARTICLES TO NULLIFY THE GROWTH OF CANC	202341085022 A	<b>Published</b>

3.	AI-POWERED TOXICOLOGY ASSESSMENT TOOL-A NEURAL NETWORK-BASED SYSTEM FOR PREDICTING TOXICOLOGICAL OUTCOMES OF NOVEL COMPOUNDS	202541083741 A	<b>Published</b>
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**IEEE MEMBERSHIPS:**

1. IEEE DEIS
2. IEEE PELS
3. IEEE EDS
4. IEEE IES
5. IEEE RA

**Published - Book Chapters - 3**

**SUMMARY:**

Experienced in advising students on academic and career paths, contributing to the development of departmental policies and educational programs. Successfully coordinated various initiatives, including mentorship programs that achieved 100% placement rates for mentees in multiple years. Engaged in curriculum development and research projects, presenting findings at professional conferences while enhancing student engagement through innovative teaching methods. Proficient in utilizing technology-based curricula and assessment tools to evaluate student performance effectively.