


Sri Sai Ram Engineering College
Department of Computer Science and Engineering
Faculty Profile

| | |
|--|---|
| Name & Photo : | Dr.D.ROOPA  |
| Designation: | Associate Professor |
| Qualification : | M.E. Ph.D |
| Area of Specialization : | Augmented Reality, Virtual Reality, Image Processing |
| Experience : | Teaching : UG: 17 yrs PG :- |
| | Industry :- |
| No. of workshop / Conferences / FDP attended : | 70 |
| Publication : | Journal National: 0 International: 8 |
| | Conference National: 2 International: 20 |
| | Indexed SCI : - WOS : 1 SCOPUS : 19 Others : 7 |
| | Book Chapter: 2 |
| | Patents: Published : 8 Granted : - |
| Membership in Professional bodies: | CSI ISTE IEEE IAENG IRED IACSIT |
| Responsibilities : | <ul style="list-style-type: none"> ● Acted as Class Coordinator(2016-2020),(2020-2023),(2023-2026) ● Acted as Symposium Coordinator |

| | |
|---------------|---|
| | <ul style="list-style-type: none"> ● Acted as Project & Mini-project Coordinator, Live-in-Lab ● Acted as Dept NAAC co-ordinator ● Department Training and Placement Co-ordinator ● NIRF - Graduation outcome (Organiser) |
| Achievements: | <ol style="list-style-type: none"> 1. Received Best educator award from Madras Library Association for the year 2020-2021. 2. Received Certificate of appreciation for selfless service in education from Lions club of Madras city in 2019-2020. 3. Received certificate of appreciation for being one of the top mentors of change to the students of Atal Tinkering Labs during the period of 2020-2021 |

PROFESSIONAL EXPERIENCE:

| Sl. No | College / Organization | Designation | Period | |
|--------|--|--------------------------|------------|------------|
| | | | From | To |
| 1 | Sri Sai Ram Engineering College, Chennai | Assistant Professor-III | 01.07.2025 | Till Date |
| 2 | Sri Sai Ram Institute of Technology | Assistant Professor - II | 02.01.2016 | 30.06.2025 |
| 3 | Jeppiaar Institute of Technology | Assistant Professor - II | 04.08.2014 | 30.07.2015 |
| 4 | R.M.K.Engineering College | Assistant Professor - II | 01.06.2011 | 30.04.2014 |
| 5 | Jeppiaar Engineering College | Lecturer | 10.08.2006 | 30.10.2009 |

BOOK CHAPTER:

1. **Network routing and its real-time practice in broadband wireless networks**, Resource Management in Advanced Wireless Mobile Networks 2023

2. **Broadband Wireless Network Era in Wireless Communication - Routing Theory and Practices**, Modeling and Optimization of Optical Communication Networks 2023

BOOK:

1. Published a book “Artificial Intelligence” in Charulatha Publications, **ISBN: 978-93-5577295-4.** (3rd author)

PATENT DETAILS:

- 1.

PANEL MEMBER:

1. Acted as a Jury for SAP HACKFEST conducted on 22.05.2026

REVIEWER:

1. Acted as Reviewer for IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025) organised by Mysuru Royal Institute of Technology, Mandya, India on 24th and 25th October, 2025.

QUESTION PAPER SETTER:

1. Acted as Question paper setter in SRM Valliammai Engineering College for ODD and Even Semester

APPRECIATION CERTIFICATE:

1. Successfully Completed various courses through NPTEL.
2. Mentorship ATL Tinkerpreneur 2024
3. Completed Machine Learning Course conducted by ISTE associated with BNY Melon.

AWARD:

1. Received Best educator award from Madras Library Association for the year 2020-2021.
2. Received Certificate of appreciation for selfless service in education from Lions club of Madras city in 2019-2020.
3. Received certificate of appreciation for being one of the top mentors of change to the students of Atal Tinkering Labs during the period of 2020-2021

FUND RECEIVED:

1. IEDC Management funded project for “Navigation system for Visually Challenged”
2. Received 1 lakh UBA Fund - “Automated Tree Enumeration and Species Identification Using Machine Learning and High-Resolution Imagery for Sustainable Forest Management.”

EVENT ORGANISED:

1. Acted as Organizer for Department Symposium 2025.

2. Organised Boot camp under RS society

PUBLICATIONS:

INTERNATIONAL JOURNALS

1. Retraction Notice: Improved Cluster Head Selection for Data Aggregation in Sensor Networks 2021 7th International Conference on Advanced Computing and Communication ...
2. Improved cluster head selection for data aggregation in sensor networks 2021 7th international conference on advanced computing and communication ...
3. Impacting Online Classes With Augmented Reality Based Education, Ilkogretim Online - Elementary Education Online 20 (1), 4967-4978
4. Revolutionizing education system with interactive augmented reality for quality education, Materials Today: Proceedings 46, 3860-3863
5. FINDING GPS BASED BID WITH AUGMENTED REALITY, IJCRT 5 (4), 2585-2588
6. GAINING VIGOROUS KNOWLEDGE FOR AUTISM BY AUGMENTED REALITY, IJCRT 5 (4), 2589-2597
7. Gesticulation Controlled Robot with Augmented Reality Based Acuity, International Journal of Scientific Development and Research (IJS DR) 1 ...
8. Controlling Mechanized Division Using Gesture Recognition, IJCSET 5 (5), 99-102
9. An image steganography framework with improved tamper proofing, Asian Journal of Information Technology 6 (10), 1023-1029

NATIONAL AND INTERNATIONAL CONFERENCES

1. **Self-Driving Bicycle for Independent Transportation and Safe Riding of Visually Impaired Individuals**, 2025 International Conference on Computing and Communication Technologies ICCCT 2025
2. **Examining the Structure for Handling and Addressing Consumer Issues within the Water Utilities Industry**, 4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of

India ICPECTS 2024

3. **Ambulance Tracking and Health Monitoring System**, 4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India ICPECTS 2024
4. **Deepfake Circumvention Using Machine Learning**, 4th International Conference on Power Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India ICPECTS 2024
5. **CardioNet: An Integrative AI-Machine Learning Framework for Enhanced Prediction and Management of Cardiovascular Diseases Using Deep Data Analytics and Clinical Insights**, Energy Control and Transmission Systems Harnessing Power and Energy for an Affordable Electrification of India ICPECTS 2024
6. **An Artificial Intelligence Improved Golf Self-Training System using Deep Learning**, 2023 Intelligent Computing and Control for Engineering and Business Systems ICCEBS 2023
7. **IOT Translator for Sign Language based on Glove**, 2023 Intelligent Computing and Control for Engineering and Business Systems ICCEBS 2023

COURSES COMPLETED:

| S. No. | Name of the Course | Certified by | Date |
|--------|--|---|------------|
| 1 | Apple Teacher | Apple | 24.11.2025 |
| 2 | Social Emotional Education: Knowledge to Practice (SEEK) | UNESCO MGIEP | Nov 2025 |
| 3 | Panchayat Administration and Rural Development Schemes | State Institute of Rural Development and Panchayat Raj (SIRD) | Jan 2023 |
| 4. | Machine Learning | ISTE, BNY Melon | Sep 2021 |