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 :	● Acted as Class Coordinator(2016-2020),(2020-2023),(2023-2026) ● Acted as Symposium Coordinator

	● 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:	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	28.08.2025	Till Date
2	Sri Sai Ram Institute of Technology	Assistant Professor - II	02.01.2016	27.08.2025
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 (IJSDR) 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