

SRI SAI RAM ENGINEERING COLLEGE

DEPARTMENT OF MECHATRONICS ENGINEERING

Name: S. Ramanathan	
Designation:	Assistant Professor
Qualification:	ME
Area of Specialization:	CAD
Experience:	Teaching-16years 3 months
	Industry – Nil
Number of Workshops/ Conferences/ FDP Attended:	FDP attended- 04 NATIONAL/INT. CONFERENCE- 01
Publication:	Journal: National : 01 International 06
	Conference: National: 01 International: 03
General:	Nil
Staff Achievement	Certification in Data analytics , AIML, IoT course conducted by IIT Kharagpur. Completed Robotics Domain certification in NPTEL with Robotics Domain expert

	certification with 7 robotic courses. Completed Paid consultancy for Virmodello Technologies in design of Shittle launcher. Erected a Robotics centre for training students in robot design and programming. Associated with department level Research and development works as research coordinator for department. Introduced innovative teaching learning platform by introducing Google class room as an ICT tool and thus enhanced the teaching learning process. Organized a six days ISTE Sponsored fdp in Robotics and Artificial Intelligence. Erected department library with 650 books, 100 journals, 200 question banks. Guided following Robotics project and implemented them successfully in Robotics centre - Design and Fabrication of Spot welding robot - Design and Fabrication Sewage cleaning robot - Design and fabrication of SCARA robotic arm Completed eight modules of NITTT teaching learning process. Delivered 3 guest lectures in Product design, 1 guest lecture in FEM, 1 in Robotics, Conducted hands on training and guest lectures in FEM, 7 days FDP in FEM , 3 months Hands on training course for students in Robotics and Automation for 3 times .
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ACADEMIC BACKGROUND

Course	Institution	Year of Passing	Board/University	Percentage of marks (%)
ME (CAD)	Sathyabama University, Chennai	2013	Sathyabama University	7.8
B.E (Mechanical Engineering)	Mookambigai College of Engineering, Pudhukottai dt	2009	Anna University	65.52
Higher Secondary	Bhishop Heber Boys Higher Secondary School, Trichy	2005	State board	67.33
S.S.L.C	Bhishop Heber Boys Higher Secondary School, Trichy	2003	State board	84.80

PROFESSIONAL EXPERIENCE

Sl. No	College/Organization	Designation	Period From To	Total period	Nature of work
1	Sri SAiram Engineering College	Assistant Profssor Gr III	June 2016 to till date	9 years 6 months	Teaching
2	CARE Group of Institutions	Assistant Professor	May 2013 to May 2016	3 years	Teaching
3	Prince Shri Venkateswara Padmavathy Engineering College	Lecturer	July 2009 to April 2011	1.9 years	Teaching

International Conferences Attended: 01

- Presented a paper in the topic of **Flow Optimization of Abrasive Fluid Jet Nozzle in the Fourth international conference on Futuristic Trends in Mechanical Engineering** held at Thiruvalluvar College of Engineering dated 7th and 8th march of 2015.

Papers published in the international conferences : 04

- Design and Investigation of Automatic Pest Detection and Pesticide Spraying Device, S.Ramanathan, Dr. I.Vimal Kannan, Kalyan Pichumani S.Rohith Krishnan, M.Mukhunnth,

A.Vishnu, 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)978-1-6654-6275-4/22/©2022 IEE DOI: 10.1109/ICPECTS56089.2022.10047006.

2. Design of automatic side stand and spring compression control system using arduino programming Ramanathan, S; Gowtham, S; Guban, E; Saisaran, K; Guhan, M IOP Conference Series: Materials Science and Engineering, 2020, 912(3), 032011, Volume , Year 2020, Pages
3. Flow analysis of abrasive micro-blasting with glycerol and acrylamide as carrier medium using computational fluid dynamics Ramanathan S.;Naveen E.;Vignesh R.M.;Sudharson S.K.;Charan B. IOP Conference Series: Materials Science and Engineering, Volume 912, Year 2020
4. Design and kinematic analysis of spot welding robot , S. Ramanathan ; N. Mani; B. Devaneshwar; K. B. Amarthian; J. Naveen Kumar; M. Yuvanthika Meenakshi, International Conference on Recent Innovations in Science and Technology (RIST2022) AIP Conf. Proc. 3037, 020015-1 <https://doi.org/10.1063/5.0196322>

List of International Journal publications : 03

1. Design and Development of an Automatic Soft Robotic Parallel Manipulator Device to Aid in Cardiopulmonary Resuscitation, Sethuraman Ramanathan, Narayanasamy Mani, Pandurangan Harikrishnan, Journal of Field Robotics Impact factor 5.2, Q1, Wiley Publications, 08 December 2025, <https://doi.org/10.1002/rob.70139>
2. Flow simulation in abrasive fluid jet machining with water as carrier medium using CFD Ramanathan S.;Naveen E.;Vijay K.;Campbell Terrin M.J.;Anish Kisshore S. International Journal of Innovative Technology and Exploring Engineering, Volume 8, Year 2019, Pages 176-184
3. ANALYSIS OF TAPER ANGLE IN NOZZLE IN ABRASIVE FLUID JET MACHINING USING CFD Ramanathan, S; Jeykrishnan, J; Diaz, J Sylvester; Sarath, M; Sriram, N; Ramanujam, VG; Pratheep, C; Stevenson, S Caleb; Karthik, B IJART, Volume , Year 2018

Patent:

1. Published one patent named “SOFT ROBOTIC CPR DEVICE”
2. Published a patent in Gas Circulation system
3. Published a patent in Vacuum powered sweeping robot.

Short Term Course (Refresher courses) Attended: Nil

Faculty/Staff Development /Training Program (Orientation programmes) Attended: 04

- Attended a two days faculty development program in the topic of Teaching **excellence in Engineering and Management Curriculam** held at Sri Sairam Institute of Management Studies from 20.06.2016 to 21.06.2016.
- Attended a three days faculty development program in the topic of **Computer Aided Design and Usage of Software** held at Sri Sairam Engineering College from 04.08.2016 to 06.08.2016.
- Attended a seven days faculty development program in the topic of **Automobile Engineering** held at Sri Sairam Engineering College from 29.11.2017 to 05.12.2017.
- Attended a five days faculty development program in the **Autodesk Inventor** software organized by ICT Academy held at Sri Sairam Institute of Technology from 04.06.2018 to 08.06.2018.

Resource person In FDP: 01 - Organized a two days FDP in FEA in the year of 2013.

Workshops Attended: Nil

Events organized:

- Organized a one day workshop for students in the topic of Industrial Robotics and its Applications on the date of 12.06.2018 at Sri Sairam Engineering College.
- Organized a seven days STTP in FEA funded by AICTE
- Organized training course in Robotics and automation.

Funded Projects:Nil