



# SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi

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Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairam.edu.in](http://www.sairam.edu.in)



## DEPARTMENT OF CHEMISTRY

Name : Ms. R.KIRUTHIKA  
Designation : Assistant professor  
Email : kiruthikar.chem@sairamit.edu.in  
Qualification : M.Sc, M.Phil, Ph.D(pursuing)  
Specialization : CHEMISTRY

Research Interest : Coordination Chemistry, Membrane Science

Experience in years : Teaching UG  PG  Industry

No. of Workshop/Conferences/  
FDP attended : Workshop  Conferences  FDP

No. of Workshop/Conferences/  
FDP Organized : Workshop  Conferences  FDP



Professional Membership	<ol style="list-style-type: none"><li>1. ACS community Associative membership</li><li>2. ISTE Lifetime Membership</li><li>3. Member in IA ENG</li><li>4. IEEE Member from 2022 onwards</li><li>5. Member of the IEEE Photonics Society</li><li>6. Member of the IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society</li><li>7. Member of the Electron Device Society</li><li>8. Member of the Nanotechnology Council</li><li>9. Member of the IEEE sight</li><li>10. Member of the IEEE Smart Cities community</li><li>11. Member of the IEEE Public Safety Technology Community</li></ol>
Publications	5

Research Funded Projects	-
Patents	1. Automated Quality Control in Chemical Manufacturing using computer vision and machine learning. Published on 06.10.2024.
Book Published	-
Achievements	-
Any Other Information	

### **List of Publications:-**

#### **1. Development of Non -Toxic Catalyst for Green Chemistry Appliances in Wastewater Treatment.**

Kumar P.S.;Vijayakumar B.;Kiruthika R.;Titus S.;Parmar K.;Ayyasamy R.;Philip J.M.;Prasad A.R.;Khan A.;Ananthan A.S.

Oxidation Communications, **Volume 48, Year 2025, Pages 1-11.**

#### **2. Assessing the effect of Calcium Cyanamide and its survival and growth of Pathogenic E.Coli in Compost during the mesophilic phase.**

Madhuramma C.;Kiruthika R.;Krishna K.L.;Balamurugesan T.;Vadivel M.;Gupta R.;Philip J.M.

Oxidation Communications, **Volume 47, Year 2024, Pages 880-889.**

#### **3. Predictive Modeling of Poultry Growth Optimization in IOT connected farms using SVM for sustainable farming practices.**

Kiruthika R.;Sahoo S.K.;Vathani B.S.;Reddy G.R.;Rajanarayanan S.;Prakash S.

Proceedings of the 2024 10th International Conference on Communication and Signal Processing Iccsp 2024, **Year 2024, Pages 677-682.**

#### **4. Next generation air quality management using pollution detection and purification compartments.**

Mageswari M.;Kiruthika R.;Asha R.M.;Devi P.

2023 2nd International Conference on Smart Technologies for Smart Nation Smarttechcon 2023, **Year 2023, Pages 605-609.**

#### **5. A study of weight reduction Corrosion in acid influenced metals.**

Daisylinanbusujitha S.;Kiruthika R.;Raja Bhuvaneswari A.

Materials Today Proceedings, **Volume 46, Year 2020, Pages 3614-3617.**

## **Workshop / Conferences / FDP Attended: -**

1. Attended a One Day National Workshop on “Role of polymers in modern engineering materials” organized by the Department of Science & Humanities at SriSairam Institute of Technology on 12th March, 2013.
2. Attended a One Day National Workshop on “Modern techniques for the characterization of polymeric materials ” organized by the Department of Science& Humanities at VIT on 12th March, 2013.
3. Attended a One Day National Workshop on “Green Composites” by the Department of Mechanical Engineering at Sri Sairam Institute of Technology, on 27th August, 2014.
4. Attended a One Day Seminar on “Recent trends in Renewable Energy” by Department of Electrical and Electronics Engineering at Sri Sairam Institute of Technology, on 31st March, 2015
5. Attended a Two Day National Workshop on “Revealing the Advancements in material sciences” by Department of Mechanical Engineering at Sri Sairam Institute of Technology, on 19th-20th July,2016
6. Attended a Faculty Development Programme on “Teaching excellence in engineering and management curriculam” at Sri Sairam Institute of Technology, on 20th-21st July,2016.
7. Attended an International Conference on “Green chemistry and sustainable environment” by Department of Chemistry at B.S.Abdur Rahman University, on 2nd-3rd August, 2016.
8. Attended a Faculty Development programme on “Characterization of materials”.by Department of Physics at Sri Sairam Institute of Technology, on 20 th -21 st July,2017.
- 9.Attended FDP on Spectroscopic and Chromatographic Techniques at Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore from 24/04/2023 to 28/04/2023.
- 10.NPTEL FDP certificate for Introduction to Environmental Engineering and Science - Fundamental and Sustainability Concepts Jan - Apr 2023.
- NPTEL FDP certificate for Plastic Waste Management Jan- Mach 2024.
- 11.NPTEL FDP certificate for Air pollution control Jan- Apr 2024.
- 12.NPTEL FDP certificate for Sustainable Engineering Concept and LCA Jul- Sep 2024.
- 13.NPTEL FDP certificate for Water Treatment and Recycling Jul- Oct 2024.
14. NPTEL FDP certificate for Applied Environmental Microbiology Jan- Apr 2025.