



# SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi  
Accredited by NBA and NAAC "A+" | BIS/EOMS ISO 21001 : 2018 Certified and NIRF ranked institution  
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.;Rajananarayanan 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 forPlastic 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.