

**SRI SAIRAM ENGINEERING COLLEGE**  
**DEPARTMENT OF CIVIL ENGINEERING**

<b>Name &amp; Photo</b>	<b>Ms. K.VAIDHEGI</b> 
<b>Designation</b>	ASSISTANT PROFESSOR
<b>Qualification</b>	B.E., M.E, PhD
<b>Area Of Specialization</b>	ENVINRONMENTAL ENGINEERING
<b>Experience</b>	<b>Teaching:</b> <b>UG: 13.8 Years</b> <b>PG: NIL</b> <b>Industry: NIL</b>
<b>Number Of Workshops/Conferences/ FDP Attended</b>	<b>FDP: 17</b> <b>STTP-4</b> <b>ATEL FDP- 5</b> <b>National Seminar/webinar -2</b> <b>Conference-13</b> <b>Training program-7</b>
<b>Publication</b>	<b>Journals: National-5</b> <b>International-7</b>
<b>Research Guidance</b>	

	NIL
<b>E-Mail</b>	vaidhegi.civil@sairam.edu.in
<b>Membership</b>	<p>Indian Concrete Institute</p> <p>Institute of Engineers India</p> <p>IEEE Oceanic Engineering Society</p> <p>IEEE Geoscience and Remote Sensing Society</p> <p>IEEE Industry Applications Society Membership</p> <p>Education Society Membership</p>
<b>Achievements</b>	<p>1.Received an IEI Best Faculty Advisor Award on 2024.</p> <p>2. Received a TNSCST fund of Rs 7500 for the project titled “Green Fuel Briquettes” under student Project scheme in the year 2018-19.</p> <p>3.Produced 100% result in Anna University Theory Examination for Mechanics of Fluids in the academic year 2014-15.</p> <p>4.Produced 100% result in Anna University Theory Examination for CE 6703- Water Resources and Irrigation Engineering in the academic year 2018-19.</p>

### **Workshops/Conferences/ FDP Attended:**

1. Attended two days AICTE sponsored **National Seminar on** “Environmental Issues and Sustainable Development” held at Sri Sairam Engineering College. Chennai from 11-11-2013 to 12-11-2013.
2. Attended **Training program** on “ISO 9001:2008 Quality Management System and Audit Training” at Sri Sairam Engineering College on 1<sup>st</sup> October 2014.
3. Attended Six days **FDP** on “Mechanics of solids” held at Sri Sairam Engineering College, Chennai dated from 25-5-2015 to 30-5-2015.
4. Attended Six days **FDP** on “Remote Sensing & GIS” held at Sri Sairam Engineering College, Chennai dated from 30-5-2016 to 04-5-2016.
5. Attended **National level FDP** on “Teaching Excellence in Engineering & Management Curriculum” dated from 20-6-2016 to 21-6-2016.
6. Attended **International conference** on “Advanced Engineering and Technology for Sustainable Development” on March 30 & 31<sup>st</sup>, 2017.
7. Attended Six days **FDP** on “Design of steel structures” held at Sri Sairam Engineering College, Chennai dated from 29-5-2017 to 03-6-2017.
8. Attended two days **International Conference** on “Informatics, Robotics Construction and Communication” held at Peri Institute of Technology, Chennai dated from 7-4-2018 to 8-4-2018.
9. Attended Eight days **FDP** on “Structural Analysis-I” held at Sri Sairam Institute Of Technology, Chennai dated from 28-5-2018 to 4-6-2018.
10. Attended **Training program** on “ISO 9001:2015 Quality Management System and Audit Training” at Sri Sairam Engineering College on 8<sup>th</sup> June 2018.
11. Attended Five days **FDP** on “Engineering teaching pedagogy effective learning process” at Sri Sairam Engineering College dated from 3-12-2018 to 7-12-2018.

12. Participated in one day **Workshop** on “Intellectual Property Rights & Innovations” held at Sri Sairam Engineering College, Chennai on 20 July 2019.
13. Participated in two days **National Conference** on “Innovations in Civil Engineering through Sustainable Technologies” held at Mahatma Gandhi Institute of Technology, Hyderabad dated from 20-9-2019 to 21-9-2019.
14. Attended Six days **STTP** on “An integrated approach of engineers towards water, Food, Energy and climate Nexus in a Changing World” held at Nandha Engineering College, Erode dated from 27-5-2019 to 1.5.2019.
15. Attended Five days **FDP** on “Innovation In Teaching Pedagogy” held at Sri Sairam Engineering College, Chennai 10.12 2019-14-12-2019.
16. Attended Five days “AICTE Training And Learning (**ATAL**) Academy Online **FDP** on "Green Technology & Sustainability Engineering" from 2021-1-18 to 2021-1-22 at Coimbatore Institute of Technology.
17. Attended Five days “AICTE Training And Learning (**ATAL**) Academy Online **FDP** on "Concrete Technology and Sustainable construction Practices" from 2020-9-21 to 2020-9-25 at Government Engineering College, Dahod.
18. Attended Five days “AICTE Training And Learning (**ATAL**) Academy Online **FDP** on "Waste Technology" from 2020-11-2 to 2020-11-6 at Manipal University Jaipur.
19. Attended Five days “AICTE Training And Learning (**ATAL**) Academy Online **FDP** on "Energy Engineering" from 2021-2-8 to 2021-2-12 at School of Energy & Environment Management.
20. Attended Five days AICTE-ISTE sponsored Phase - 2 a one week online **Faculty Development Programme** on “Curriculum For Sustainability” 2nd to 8th December 2020.

21. Attended “ Application of Remote Sensing in Soil and Groundwater Contamination Assessment” 5 day online **STTP** on 7th September to 12th September 2020 at Sri Krishna College of Engineering and Technology, Coimbatore.
22. Presented a paper titled "BIOWASTE CONVERSION AS LIVE BIOMASS OF BLACK SOLID FLY (BSF) TO CHICKEN FEED" on **International Conference** on Advances in Mechanical Engineering(virtual mode) held during 27 and 28 th Jan 2020 at Sri Sairam Engineering College.
23. Presented a paper titled presented a technical paper on “Using Bendable Concrete For Earthquake Resistant Structure And Pavements” in 2-Day **National e-Conference** on “Innovations in Civil Engineering through Sustainable Technologies (NICEST-2021)” held during 26-27 March, 2021, Organized by Department of Civil Engineering, Mahatma Gandhi Institute of Technology (MGIT), Gandipet, Hyderabad.
24. Attended “**CII Certified Professional in Sustainable Waste Management**” organised by CII During Nov and Dec 2020.
25. Attended Online Elementary **FDP** on "Recent Advances in Water Treatment and Desalination" from 23/08/2021 to 27/08/2021 at Anna University - University College Of Engineering Dindigul Campus.
26. Participated in the **Online Training Programme** on "NITTT Orientation Training Programming" Conducted by this Institute from 05.07.2021 to 09.07.2021 (One Week)
27. AICTE Training And Learning (**ATAL**) Academy Online Elementary **FDP** on 'Recent Advances in Water Treatment and Desalination' from 23/08/2021 to 27/08/2021 at Anna University - University College Of Engineering Dindigul Campus.
28. AICTE **FDP** on 'Inculcating Universal Human Values in Technical Education' from 12 July, 2021 to 16 July, 2021, organized by AICTE.

29. **National Webinar Conference** on 'Ecofriendly Waste Management Options for Sustainable Agriculture' organized by Centre for Environmental Studies, Anna University, Chennai on 21st and 22nd October, 2021.
30. Virtual **STTP** on 'Research Methodology' organized by College of Engineering Guindy, Chennai (Cert ID: IQAC 544).
31. **International Conference** on “Concerns and Threats of Microbial Contamination in Aquatic Ecosystems” organized by the Centre for Environmental Studies (CES), Anna University, Chennai, on May 5th and 6th, 2023.
32. Research Open Access **Webinar** on "How to Publish Research Articles in Open Access" organized by University Library, Anna University & F1000, Taylor & Francis Group, on March 20, 2023.
33. **Conference Presentation** at WATMAN 2023 Organized by International Water Management Institute (IWMI) & Water Resource Department, WATMAN International Conference on Sustainable Water Management, February 2023
34. PSG **International Conference** on Emerging Contaminants in Water and Environment organized by PSG Institute of Advanced Studies, on February 21st & 22nd, 2023
35. Participated **Field training** on Understanding Biodiversity Monitoring and Environmental Compliance". at Vedanthangal Bird Sanctuary from March 13-15, 2023, in Chennai by Hubert Enviro Care Systems (P) Ltd. and Srushti Conservation Foundation.
36. Attended **Workshop** on "Floods in Industrial Areas - Assessment and Impact" jointly organized by the School of Sustainability, IIT Madras, and IGCS(RWTH Aachen) . held from February 22-24, 2024, at IIT Madras.
37. Attended **Two-day Workshop cum hands-on training sessions** on "Dive into Ecotoxicology: Zebra fish and Wastewater". on November 27 and 28, 2023, at SRM Institute of Science and Technology - Kattankulathur, Chennai.

38. Participated a **short course** on "Easy and Solid Logics for Research Paper writing in High Impact Journals" was organized by the Department of Biomedical Engineering, SSNCE, and the IEEE Signal Processing Society held from September 14-15, 2023.
39. Presented **National conference** paper titled "Reduction of Eutrophication" on Department of Civil Engineering, Dr. M.G.R. Educational and Research Institute held on March 12 and 13, 2024.
40. Actively participated in a "7 Days Online **Faculty Development Program** on Essential Skills for Professional Development in Higher Education held at Star International Foundation for Research and Education, on July 1, 2024, to July 7, 2024.
41. Participated in a **Five-day Faculty Development Program** on "2nd Series of Geotechnical Engineering Practices and its Sustainable Development - 2024 held at Ballari Institute of Technology & Management, Ballari, from June 18, 2024, to June 22, 2024.
42. Participated **INTERNATIONAL CONFERENCE** on "Advancements in Drinking Water Disinfection Technologies", held at Centre for Environmental Studies, Anna University, Chennai, in collaboration with Larsen & Toubro, Water & Effluent Treatment IC, Chennai, on July 19, 2024.
43. Attended Two Weeks **Short Term Training Programme** on "Machine Learning for Civil Engineering" was organized by the National Institute of Technical Teachers' Training and Research (NITTTR) Kolkata from August 12th to August 23rd, 2024.

## **PUBLISHED JOURNALS**

1. Presented a paper in National Conference on Industrial Pollution And Control Technology on 14<sup>th</sup> & 15<sup>th</sup> March 2013 and published in International Journal of ChemTech Research CODEN( USA): IJCRGG ISSN : 0974-4290 Vol.5, No.3, pp 1313-1319, April-June 2013. (**SCOPUS INDEXED**)
2. "Moving Bed Bio-film Reactor -A New Perspective in Pulp Paper & Waste Water Treatment". International. Journal of Engineering Research and Application ISSN : 2248-9622, Vol. 6, Issue 6, (Part -4) June 2016, pp.09-13(**UGC APPROVED & INDEX**

## **COPERNICUS)**

3. “Treatment of Dye waste water using Moving Bed Biofilm Reactor and activated Carbon [MBBR-GAC]” in International Journal of Advanced Research In Dynamical & Control System ISSN 1943-023X, Spl.Issue- 8, May 2018, pp979-985. **(SCOPUS INDEXED)**
4. Study On Green Concrete Using Sugarcane Bagasse Ash (Scba) Vol. 21 No. 17 (2019): Vol 21 No. 17 (2019).
5. Evaluation on Strength and Behaviour of Concrete Containing Pulverized Polyethylene Terephthalate (PET) in Vol 83, March - April 2020 ISSN: 0193-4120 Page No. 12202 – 12207. **(SCOPUS INDEXED)**
6. Study On Various Rating System For Green Building In Chennai European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 7, Issue 06, 2020. **(UGC APPROVED)**
7. “Experimental Study on self sensing characteristics of M30 concrete”, Ilkogretim Online - Elementary Education Online, 2020; Vol 19 (Issue 2): pp. 1713-1721, Volume Volume 2022, Article ID 5240115, 10 pages, Year 2020, Pages Volume 2022, Article ID 5240115, 10 pages **(UGC APPROVED)**
8. “A study on Environmental Impact for A sugar Industry”, Ilkogretim Online - Elementary Education Online,, Volume 19, Year 2020, Pages 1713-1721. **(UGC APPROVED)**
9. “A case study on redevelopment plan and design of chennai Anna Sali”, International Journal of Trend in Scientific Research and Development, Volume 6 Issue 1, November-December 2021. **(UGC APPROVED)**
10. “Green Fuel Briquettes Using Municipal Solid Waste And Wood Industry Residue”, International Journal of Engineering Research and Applications Vol. 12, Issue 2, (Series-II) February 2022, pp. 23-30. **(UGC APPROVED)**
11. “Optimization on the Mechanical Properties of Aluminium 8079 Composite Materials Reinforced with PSA” Advances in Materials Science and Engineering, volume 2022,issue 1, p. 1-11,2022. **(SCI Indexed)**
12. “Spatiotemporal variation of water quality in the context of suspended particulate matter in Laguna Mar Chiquita Lake, Argentina using ACOLITE” Desalination and Water Treatment, Volume 320, Year 2024, Pages 100684. **(SCI Indexed)**

## **RESOURCE PERSON:**



Delivered an Expert Lecture in Faculty Development Programme “CE 8403- Applied Hydraulic Engineering” held at SRM Valliammai Engineering College, Chennai dated from 2-12-2019 to 6-12-2019.

## **PATENT PUBLISHED**

### **1. Potential resource recovery from municipal solid waste using refused derived fuel**

Application No : 202141042868

Publication date: 5.11.2021

### **2. Phosphorescence- infused light Emitting Concrete Blocks**

Application No : 202241074793

Publication date: 30.12.22

### **3. IOT based signaling apparatus for pedestrian crossing**

Application No : 416221-001

Publication date: 08/05/2024

### **4. Waste Water Treatment Plant for Sairam Campus Using IOT**

Application No : 202441063654 A

Publication date: 30/08/2024

### **5. Reduction of Eutrophication**

Application No : 202441075614 A

Publication date: 18/10/2024

I hereby declare that the information provided above is true and correct.

**MS .K.VAIDHEGI**