

SRI SAIRAM ENGINEERING COLLEGE
DEPARTMENT OF CIVIL ENGINEERING

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

Membership	<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>
Achievements	<ol style="list-style-type: none"> 1.Received an IEI Best Faculty Advisor Award on 2024. 2. Received a TNSCST fund of Rs 7500 for the project titled “Green Fuel Briquettes” under student Project scheme in the year 2018-19. 3.Produced 100% result in Anna University Theory Examination for Mechanics of Fluids in the academic year 2014-15. 4.Produced 100% result in Anna University Theory Examination for CE 6703- Water Resources and Irrigation Engineering in the academic year 2018-19.

Workshops/Conferences/ FDP Attended:

- Attended **Two Weeks Short Term Training Programme on “Machine Learning for Civil Engineering”**, organized by NITTTR Kolkata, from **12–23 August 2024**.
- Participated in **International Conference on “Advancements in Drinking Water Disinfection Technologies”**, Centre for Environmental Studies, Anna University, Chennai, in collaboration with L&T, on **19 July 2024**.
- Participated in **Five-day FDP on “2nd Series of Geotechnical Engineering Practices and its Sustainable Development – 2024”**, Ballari Institute of Technology & Management, from **18–22 June 2024**.
- Actively participated in **7 Days Online FDP on “Essential Skills for Professional Development in Higher Education”**, Star International Foundation for Research and Education, from **1–7 July 2024**.
- Presented a **National Conference paper titled “Reduction of Eutrophication”**, Department of Civil Engineering, Dr. M.G.R. Educational and Research Institute, on **12–13 March 2024**.
- Attended **Workshop on “Floods in Industrial Areas – Assessment and Impact”**, jointly organized by IIT Madras & IGCS (RWTH Aachen), from **22–24 February 2024**.
- Participated in **Two-day Workshop cum hands-on training on “Dive into Ecotoxicology: Zebra fish and Wastewater”**, SRM Institute of Science and Technology, on **27–28 November 2023**.
- Participated in **Short course on “Easy and Solid Logics for Research Paper Writing in High Impact Journals”**, SSNCE & IEEE Signal Processing Society, on **14–15 September 2023**.
- Participated in **Field Training on “Understanding Biodiversity Monitoring and Environmental Compliance”**, Vedanthangal Bird Sanctuary, from **13–15 March 2023**.
- Presented paper at **WATMAN 2023 – International Conference on Sustainable Water Management**, organized by IWMI & WRD, in **February 2023**.
- Participated in **PSG International Conference on Emerging Contaminants in Water and Environment**, on **21–22 February 2023**.
- Attended **International Conference on “Concerns and Threats of Microbial Contamination in Aquatic Ecosystems”**, Anna University, on **5–6 May 2023**.
- Attended **Research Open Access Webinar on “How to Publish Research Articles in Open Access”**, organized by Anna University & Taylor & Francis, on **20 March 2023**.
- Attended **Virtual STTP on “Research Methodology”**, organized by College of Engineering Guindy, Chennai.

- Participated in **National Webinar Conference on “Ecofriendly Waste Management Options for Sustainable Agriculture”**, Anna University, on **21–22 October 2021**.
- Attended **AICTE FDP on “Inculcating Universal Human Values in Technical Education”**, from **12–16 July 2021**.
- Participated in **NITTT Orientation Training Programme**, from **5–9 July 2021**.
- Attended **AICTE–ATAL Online FDP on “Recent Advances in Water Treatment and Desalination”**, Anna University – UCE Dindigul, from **23–27 August 2021**.
- Attended **AICTE–ATAL Online FDP on “Energy Engineering”**, from **8–12 February 2021**.
- Presented paper on **“Using Bendable Concrete for Earthquake Resistant Structures and Pavements”**, NICEST–2021, on **26–27 March 2021**.
- Attended **CII Certified Professional in Sustainable Waste Management**, during **Nov–Dec 2020**.
- Attended **AICTE–ISTE Sponsored FDP on “Curriculum for Sustainability”**, from **2–8 December 2020**.
- Attended **5-day Online STTP on “Application of Remote Sensing in Soil and Groundwater Contamination Assessment”**, from **7–12 September 2020**.
- Attended **AICTE–ATAL FDP on “Waste Technology”**, from **2–6 November 2020**.
- Attended **AICTE–ATAL FDP on “Concrete Technology and Sustainable Construction Practices”**, from **21–25 September 2020**.
- Presented paper on **“Biowaste Conversion as Live Biomass of Black Soldier Fly (BSF) to Chicken Feed”**, International Conference, on **27–28 January 2020**.
- Participated in **National Conference on “Innovations in Civil Engineering through Sustainable Technologies”**, MGIT Hyderabad, from **20–21 September 2019**.
- Participated in **Six-day STTP on “Water–Food–Energy–Climate Nexus”**, Nandha Engineering College, from **27 May–1 June 2019**.
- Attended **Five-day FDP on “Innovation in Teaching Pedagogy”**, from **10–14 December 2019**.
- Participated in **Workshop on “Intellectual Property Rights & Innovations”**, on **20 July 2019**.
- Attended **Eight-day FDP on “Structural Analysis – I”**, Sri Sairam Institute of Technology, from **28 May–4 June 2018**.
- Attended **ISO 9001:2015 QMS and Audit Training**, on **8 June 2018**.

- Attended **Two-day International Conference on “Informatics, Robotics, Construction and Communication”**, from 7–8 April 2018.
- Attended **Five-day FDP on “Engineering Teaching Pedagogy – Effective Learning Process”**, from 3–7 December 2018.
- Attended **Six-day FDP on “Design of Steel Structures”**, from 29 May–3 June 2017.
- Attended **International Conference on “Advanced Engineering and Technology for Sustainable Development”**, on 30–31 March 2017.
- Attended **Six-day FDP on “Remote Sensing & GIS”**, from 30 May–4 June 2016.
- Attended **National FDP on “Teaching Excellence in Engineering & Management Curriculum”**, from 20–21 June 2016.

PUBLISHED JOURNALS

1. Presented a paper in National Conference on Industrial Pollution And Control Technology on 14th & 15th 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