

Name: K.VAIDHEGI	Photo 			
Designation:	Assistant Professor			
Qualification:	M.E			
Area of specialization:	Environmental Engineering			
Experience:	Industrial Experience		Teaching Experience	
	Nil		14 years 6 months	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	5		24	
Publications:	Conference		Journal	
	National	International	National	International
	3	7	2	10
Books / Book Chapters	Nil			
Patents:	National		International	
	6		Nil	
Professional Body Membership	6			

Staff Achievements

- Successfully completed the AICTE QIP PG Certificate Programme in Artificial Intelligence and Data Science, conducted by the Indian Institute of Information Technology (IIIT) Kottayam under AICTE, from 30 June 2025 to 19 December 2025.
- Participated as Faculty Guide in the Niral Thiruvizha 2.0 (Hackathon) Competition 2025, organized by the Tamil Nadu Skill Development Corporation (TNSkills) under the aegis of the Special Programme Implementation Department, Government of Tamil Nadu.
- Received the IEI Best Faculty Advisor Award in the year 2024.
- Guided the student project titled “Green Fuel Briquettes” under the Tamil Nadu State Council for Science and Technology (TNSCST) Student Project Scheme and received a grant of ₹7,500 during the academic year 2018–2019.
- Produced 100% results in the Anna University Theory Examination for CE 6703 – Water Resources and Irrigation Engineering during the academic year 2018–2019.
- Produced 100% results in the Anna University Theory Examination for Mechanics of Fluids during the academic year 2014–2015.

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks/ Grades obtained	Class obtained
UG	B.E	Civil Engineering	2008	Adhiparaskathi, Engineering College	Anna University	75	First Class
PG	M.E	Environmental Engineering	2010	College of Engineering, Guindy	Anna University	8.6	First Class with Distinction
PhD		Environmental Engineering	Pursuing	College of Engineering, Guindy	Anna University		

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
SRI SAI RAM ENGINEERING COLLEGE (AUTONOMOUS)	ASSISTANT PROFESSOR	12-06-2013		12	8	25
S K P INSTITUTE OF TECHNOLOGY	ASSISTANT PROFESSOR	05-07-2012	28-05-2013	0	10	24
VELS UNIVERSITY	ASSISTANT PROFESSOR	02-07-2010	27-05-2011	0	10	26

Workshops/Seminars attended:

1. Attended a Workshop on *Floods in Industrial Areas – Assessment and Impact*, jointly organized by the School of Sustainability, IIT Madras, and IGCS (RWTH Aachen), held from 22 February 2024 to 24 February 2024 at IIT Madras.
2. Attended a Two-Day Workshop cum Hands-on Training Session on *Dive into Ecotoxicology: Zebra Fish and Wastewater* held on 27 and 28 November 2023 at SRM Institute of Science and Technology, Kattankulathur, Chennai.
3. Participated in a Short Course on *Easy and Solid Logics for Research Paper Writing in High Impact Journals*, organized by the Department of Biomedical Engineering, SSN College of Engineering and IEEE Signal Processing Society, held from 14 September 2023 to 15 September 2023.
4. Participated in Field Training on *Understanding Biodiversity Monitoring and Environmental Compliance* held at Vedanthangal Bird Sanctuary, Chennai, from 13 March 2023 to 15 March 2023, organized by Hubert Enviro Care Systems (P) Ltd. and Srushti Conservation Foundation.
5. Participated in a One-Day Workshop on *Intellectual Property Rights & Innovations* held at Sri Sairam Engineering College, Chennai, on 20 July 2019.

FDP/STTP Attended:

1. Participated in a Faculty Development Programme on Innovative Technologies for Sustainable and Disaster Resilient Infrastructure organized by Toc H Institute of Science and Technology, Kerala, from 01 December 2025 to 06 December 2025.
2. Participated in a 40 Hours Online Faculty Development Programme on Emerging Tools & Techniques for Environmental Risk Assessment organized by Electronics & ICT Academy, NIT Warangal, from 23 June 2025 to 04 July 2025.
3. Successfully completed the NPTEL Online Certification course on Integrated Waste Management for a Smart City (12 Weeks) during Jul–Oct 2025.
4. Attended a Two Weeks Short Term Training Programme on Machine Learning for Civil Engineering organized by NITTTR Kolkata from 12 August 2024 to 23 August 2024.
5. Successfully completed the NPTEL-AICTE Faculty Development Programme on Wastewater Treatment and Recycling (12 Weeks) during Jul–Oct 2024.
6. Successfully completed the NPTEL-AICTE Faculty Development Programme on Sustainable Engineering Concepts and Life Cycle Analysis (8 Weeks) during Jul–Sep 2024.
7. Actively participated in a Seven Days Online Faculty Development Programme on Essential Skills for Professional Development in Higher Education from 01 July 2024 to 07 July 2024.
8. Participated in a Five Days Faculty Development Programme on Geotechnical Engineering Practices and its Sustainable Development – 2024 held at Ballari Institute of Technology & Management from 18 June 2024 to 22 June 2024.
9. Successfully completed the NPTEL-AICTE Faculty Development Programme on Air Pollution and Control (12 Weeks) during Jan–Apr 2024.
10. Successfully completed the NPTEL-AICTE Faculty Development Programme on Plastic Waste Management (8 Weeks) during Jan–Mar 2024.
11. Attended a Five Days AICTE–ATAL Academy Online Faculty Development Programme on Recent Advances in Water Treatment and Desalination conducted by Anna University –

University College of Engineering, Dindigul Campus, from 23 August 2021 to 27 August 2021.

12. Attended an AICTE Faculty Development Programme on Inculcating Universal Human Values in Technical Education from 12 July 2021 to 16 July 2021.
13. Attended a Five Days AICTE–ATAL Academy Online Faculty Development Programme on Energy Engineering from 08 February 2021 to 12 February 2021.
14. Attended a Five Days AICTE–ATAL Academy Online Faculty Development Programme on Green Technology & Sustainability Engineering conducted by Coimbatore Institute of Technology from 18 January 2021 to 22 January 2021.
15. Attended a One Week AICTE–ISTE Sponsored Online Faculty Development Programme (Phase II) on Curriculum for Sustainability from 02 December 2020 to 08 December 2020.
16. Attended a Five Days AICTE–ATAL Academy Online Faculty Development Programme on Waste Technology conducted by Manipal University Jaipur from 02 November 2020 to 06 November 2020.
17. Attended a Five Days AICTE–ATAL Academy Online Faculty Development Programme on Concrete Technology and Sustainable Construction Practices conducted by Government Engineering College, Dahod, from 21 September 2020 to 25 September 2020.
18. Attended a Five Days Faculty Development Programme on Innovation in Teaching Pedagogy held at Sri Sairam Engineering College, Chennai, from 10 December 2019 to 14 December 2019.
19. Attended a Five Days Faculty Development Programme on Engineering Teaching Pedagogy – Effective Learning Process held at Sri Sairam Engineering College, Chennai, from 03 December 2018 to 07 December 2018.
20. Attended an Eight Days Faculty Development Programme on Structural Analysis-I held at Sri Sairam Institute of Technology, Chennai, from 28 May 2018 to 04 June 2018.
21. Attended a Six Days Faculty Development Programme on Design of Steel Structures held at Sri Sairam Engineering College, Chennai, from 29 May 2017 to 03 June 2017.
22. Attended a National Level Faculty Development Programme on Teaching Excellence in Engineering & Management Curriculum from 20 June 2016 to 21 June 2016.
23. Attended a Six Days Faculty Development Programme on Remote Sensing & GIS held at Sri Sairam Engineering College, Chennai, in May 2016.
24. Attended a Six Days Faculty Development Programme on Mechanics of Solids held at Sri Sairam Engineering College, Chennai, from 25 May 2015 to 30 May 2015.

Conference Attended:

International :

1. Participated in the International Conference on *Advancements in Drinking Water Disinfection Technologies* held at the Centre for Environmental Studies, Anna University, Chennai, in collaboration with Larsen & Toubro – Water & Effluent Treatment IC, on 19 July 2024.
2. Participated in the WATMAN 2023 – International Conference on *Sustainable Water Management*, organized by the International Water Management Institute (IWMI) and the Water Resources Department, in February 2023.
3. Participated in the PSG International Conference on *Emerging Contaminants in Water and Environment*, organized by PSG Institute of Advanced Studies, held on 21 and 22 February 2023.
4. Participated in the International Conference on *Concerns and Threats of Microbial Contamination in Aquatic Ecosystems*, organized by the Centre for Environmental Studies (CES), Anna University, Chennai, held on 05 and 06 May 2023.

5. Attended the International Conference on *Informatics, Robotics Construction and Communication* held at Peri Institute of Technology, Chennai, from 07 April 2018 to 08 April 2018.
6. Attended the International Conference on *Advanced Engineering and Technology for Sustainable Development* held on 30 and 31 March 2017.
7. Presented a paper titled "*BIOWASTE CONVERSION AS LIVE BIOMASS OF BLACK SOLDIER FLY (BSF) TO CHICKEN FEED*" at the International Conference on *Advances in Mechanical Engineering* (Virtual Mode) held on 27 and 28 January 2020 at Sri Sairam Engineering College, Chennai.

National:

8. Presented a National Conference paper titled "*Reduction of Eutrophication*" at the National Conference organized by the Department of Civil Engineering, Dr. M.G.R. Educational and Research Institute, held on 12 and 13 March 2024.
9. Presented a technical paper titled "*Using Bendable Concrete for Earthquake Resistant Structure and Pavements*" at the Two-Day National e-Conference on *Innovations in Civil Engineering through Sustainable Technologies (NICEST-2021)*, organized by the Department of Civil Engineering, Mahatma Gandhi Institute of Technology (MGIT), Hyderabad, held on 26 and 27 March 2021.
10. Participated in a Two-Day National Conference on *Innovations in Civil Engineering through Sustainable Technologies* held at Mahatma Gandhi Institute of Technology, Hyderabad, from 20 September 2019 to 21 September 2019.

Completed / Ongoing Projects:

Patent:

1. Water Purification Using Sustainable Bio-Blocks, *Application No. 202541096395 A, Published on 31 October 2025.*
2. Reduction of Eutrophication, *Application No. 202441075614 A, Published on 18 October 2024.*
3. Waste Water Treatment Plant for Sairam Campus Using IoT, *Application No. 202441063654 A, Published on 30 August 2024.*
4. IoT Based Signaling Apparatus for Pedestrian Crossing, *Application No. 416221-001, Published on 08 May 2024.*
5. Phosphorescence-Infused Light Emitting Concrete Blocks, *Application No. 202241074793, Published on 30 December 2022.*
6. Potential Resource Recovery from Municipal Solid Waste Using Refuse Derived Fuel, *Application No. 202141042868, Published on 05 November 2021.*

Journal Publications:

INTERNATIONAL JOURNAL PUBLICATIONS

1. Published the research article titled "*Spatiotemporal Variation of Water Quality in the Context of Suspended Particulate Matter in Laguna Mar Chiquita Lake, Argentina Using ACOLITE*" in **Desalination and Water Treatment**, Volume 320, Year 2024. (SCI Indexed)

2. Published the article titled “*Optimization on the Mechanical Properties of Aluminium 8079 Composite Materials Reinforced with PSA*” in **Advances in Materials Science and Engineering**, Volume 2022, Issue 1, 2022. (SCI Indexed)
3. Published the article titled “*Green Fuel Briquettes Using Municipal Solid Waste and Wood Industry Residue*” in **International Journal of Engineering Research and Applications**, Vol. 12, Issue 2, February 2022. (UGC Approved)
4. Published the article titled “*Evaluation on Strength and Behaviour of Concrete Containing Pulverized Polyethylene Terephthalate (PET)*” in March–April 2020. (Scopus Indexed)
5. Published the article titled “*Study on Various Rating System for Green Building in Chennai*” in **European Journal of Molecular & Clinical Medicine**, Volume 7, Issue 06, 2020. (UGC Approved)
6. Published the article titled “*Experimental Study on Self Sensing Characteristics of M30 Concrete*” in **Ilkogretim Online – Elementary Education Online**, 2020. (UGC Approved)
7. Published the article titled “*A Study on Environmental Impact for a Sugar Industry*” in **Ilkogretim Online – Elementary Education Online**, 2020. (UGC Approved)
8. Published the article titled “*Treatment of Dye Wastewater Using Moving Bed Biofilm Reactor and Activated Carbon (MBBR-GAC)*” in **International Journal of Advanced Research in Dynamical & Control Systems**, Special Issue-8, May 2018. (Scopus Indexed)
9. Published the article titled “*Moving Bed Bio-Film Reactor – A New Perspective in Pulp Paper & Wastewater Treatment*” in **International Journal of Engineering Research and Application**, Vol. 6, Issue 6, June 2016. (UGC Approved)
10. Published a research paper in **International Journal of ChemTech Research**, Vol. 5, No. 3, April–June 2013. (Scopus Indexed)

NATIONAL JOURNAL PUBLICATIONS

1. Published the article titled “*A Case Study on Redevelopment Plan and Design of Chennai Anna Salai*” in **International Journal of Trend in Scientific Research and Development**, Volume 6, Issue 1, November–December 2021. (UGC Approved)
2. Published the article titled “*Study on Green Concrete Using Sugarcane Bagasse Ash (SCBA)*”, Volume 21, No. 17, 2019.

Awards :

1. Successfully obtained the certification as “**CII Certified Expert in Sustainable Waste Management**”, issued by CII Sohrabji Godrej Green Business Centre (Confederation of Indian Industry), on December 21, 2020.
2. Guided the student project titled “**Green Fuel Briquettes**” under the Tamil Nadu State Council for Science and Technology Student Project Scheme 2021–2022 and the project received a grant of ₹7,500 approved on March 11, 2022
3. Participated as **Faculty Guide** in the **Niral Thiruvizha 2.0 (Hackathon) Competition 2025**, organized by Tamil Nadu Skill Development Corporation (TNSkills) under the aegis of the Special Programme Implementation Department, Government of Tamil Nadu.

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.

Online Courses:

1. Successfully completed the **AICTE QIP PG Certificate Programme in Artificial Intelligence and Data Science**, conducted by the Indian Institute of Information Technology (IIIT) Kottayam under AICTE, from 30 June 2025 to 19 December 2025.
2. Successfully completed the “**GIS Foundation Course – A Hands-On Training**”, organized by Hexamap Solutions Private Limited, from 23 September 2024 to 17 November 2024.

Professional Membership:

1. **Life Member** of the *Indian Concrete Institute (ICI)*.
2. **Life Member** of the *Institution of Engineers (India) [IEI]*.
3. Member of the *IEEE Oceanic Engineering Society*.
4. Member of the *IEEE Geoscience and Remote Sensing Society*.
5. Member of the *IEEE Industry Applications Society*.
6. Member of the *IEEE Education Society*.