

Faculty Detail for Website

Name: Dr.S. Pauline, M.Tech., Ph.D.,

Designation: Associate Professor

Area of Specialization: Environmental Engineering

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Education

S.No.	Degree	Institution/ University	Year	Branch of study/ Specialization
1	B.E.	Madurai Kamaraj University, Madurai	2004	Civil Engineering
2	M.Tech	Indian Institute of Technology, Madras	2007	Environmental Engineering
3	Ph.D.	Anna University, Chennai	2020	Civil Engineering

Experience

S.No.	Name of the College/ Industry	Position Held	From	To	Total years
1.	Periyar Maniammai University, Thanjavur	Assistant Professor	June 2008	Dec 2009	1 year 6 months
2.	Periyar Maniammai University, Thanjavur	Assistant Professor	June 2011	Dec 2012	1 year 6 months
3.	Alagappa Chettiar Government College of Engineering & Technology, Karaikudi	Assistant Professor	April 2013	April 2023	10 years
4.	Government College of Engineering, Tirunelveli	Associate Professor	April 2023	Till date	2 months
Total Experience					13 years

Area of Interest:

1. Water and Waste Water Engineering
2. Solid Waste Management
3. Environmental Quality Modelling

List of Publications:

1. Feasibility Studies on application of Photo Fenton Oxidation for Methylene Blue in Iranica Journal of Energy & Environment 6(4), 255-259, 2015.
2. Treatment of slaughterhouse wastewater using microbial fuel cell in International Journal of Advance Research, Ideas, Innovation in Technology, vol. no 4(5), 228-230, 2018.

3. Influence of solvent and its concentration on binding graphene with substrate in electric double layer capacitance in *Desalination and Water Treatment*, Vol. 145, 134-142, 2019.
4. Performance Evaluation studies of Fenton Oxidation on Different Dyes and its Optimization of Experimental Parameters in *Journal of Materials and Environmental Sciences*, Vol. No 11(2), 230-237, 2020.
5. A GIS –based evaluation of Hydrochemical characterization of groundwater in hard rock region in *Arabian Journal of Geosciences*, Vol.13 issue 17 Article no 837, September 2020.
6. Experimental study on performance assessment of Fenton and photo- Fenton oxidation process for methylene blue, S. Pauline B. Gowtham, *Proceedings of the International Academy of Ecology and Environmental Sciences*, 2021. Volume 11, Issue 2, Pages 43-51.
7. Treatment of slaughterhouse wastewater using microbial fuel cell, Pauline S Boopathi A, 2018, *International Journal of Advance Research, Ideas, Innovation in Technology*, Volume 4, Issue 5, Pages 228-230.
8. Influence of Chemical, Electrochemical Exfoliation, Hydrophilic, and Hydrophobic Binder on the Sorption Capacity of Graphene in Capacitive Deionization, G Venkatesan, S Pauline, 2022, *Journal of Environmental Engineering*, Volume 148 , Issue 7, Pages 04022033.
9. Assessment of inverse fluidized bed reactor on the treatment efficiency of distillery spent wash water, P. Balamurugan, S. Pauline, M. Kirubakaran, M. Thomas, *International Journal of Environmental Science and Technology*, 2021, <https://doi.org/10.1007/s13762-021-03650-2>.

International Conferences:

1. Participated in Two day International Conference on Algebra and its Applications organized by Department of Mathematics, Periyar Maniammai University, Vallam, held during 14 and 15 December 2011.

National Conferences:

1. Presented a paper titled as “Performance evaluation of Microalgae as an alternate biomass” in National conference on “Advancements in materials, Construction and Sustainable Environment” held on 29-03-2014 at Kalasalingam University, Anand Nagar, Krishnan Koil.
2. Presented a paper titled as “Enhanced Removal of Phosphorous from Industrial wastewater using SBR technique” in National conference on “Recent innovations in Structures and Environment” held on 28-05-2014 sponsored by TEQIP Phase-II at ACCET, Karaikudi.
3. Presented a paper titled as “Modelling of Transport and Biotransformation of As(V) using *Bacillus Assenicus* in Confined Aquifers” in National conference on “Recent innovations in Structures and Environment” held on 28-05-2014 sponsored by TEQIP Phase-II at ACCET, Karaikudi.

4. Presented a paper titled as “Performance evaluation of Banana Leaf as coagulant” in National conference on “Recent innovations in Structures and Environment” held on 28-05-2014 sponsored by TEQIP Phase-II at ACCET, Karaikudi.
5. Presented a paper titled as “Experimental investigation on Zinc removal from car wash water using natural adsorbents” in TEQIP-II sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 08-05-2015 at ACCET, Karaikudi.
6. Presented a paper titled as “A Comprehensive Study on the Suitability of Fenton and Photo Fenton Oxidation Process on Oil and Grease” in TEQIP-II Sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 08-05-2015 at ACCET, Karaikudi.
7. Presented a paper titled as “Assessment study on the application of Brine in Irrigation using sweet basil, vetiver & Purslane” in TEQIP-II Sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 08-05-2015 at ACCET, Karaikudi.
8. Presented a paper titled as “Effect of operating parameters on photocatalytic degradation of Rhodamine-B using TiO_2 .” in TEQIP-II Sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 08-05-2015 at ACCET, Karaikudi.
9. Presented a paper titled as “Effect of operating parameters on photocatalytic degradation of Rhodamine-B using TiO_2 .” in Innovative technologies & Developments in Civil Engineering ITDCE’15 held on 07-03-2015 at Sree Shakthi Engineering College, Coimbatore.
10. Presented a paper titled as “Performance Assessment of Fenton and photo Fenton oxidation on Methylene blue” in TEQIP-II Sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 08-05-2015 at ACCET, Karaikudi.
11. Presented a paper titled as “Development and synthesis of Graphene from pencil Graphite” in TEQIP-II Sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 10-03-2016 at ACCET, Karaikudi.
12. Presented a paper titled as “A Preliminary study on coccina indica for turbidity removal from Dairy waste water” in TEQIP-II Sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 10-03-2016 at ACCET, Karaikudi.
13. Presented a paper titled as “Influence of various bedding materials in factors affecting vermicomposting of sugarcane bagasse” in TEQIP-II Sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 10-03-2016 at ACCET, Karaikudi.
14. Presented a paper titled as “Aquaculture wastewater treatment using Sequential batch reactor” in TEQIP-II Sponsored National conference on “Recent trends in Environmental and Structural Engineering” held on 10-03-2016 at ACCET, Karaikudi.
15. Presented a paper titled as “Performance Assessment of Electro-optic behavior of sorption under the influence of Different binders” in the National conference on “Recent innovations in Civil Engineering” held on 25-03-2017 at Mohamed Sathak Engineering college, Kilakarai.
16. Presented a paper titled as “Influence of electric double layer capacitance on the

- removal of colour from methylene blue dye” in the National conference on “Recent innovations in Civil Engineering” held on 25-03-2017 at Mohamed Sathak Engineering college, Kilakarai.
17. Presented a paper titled as “Aerobic treatment of Slaughter house wastewater using Artemia” in the National conference on “Recent innovations in Civil Engineering” held on 25-03-2017 at Mohamed Sathak Engineering college, Kilakarai.
 18. Presented a paper titled as “Experimental Investigation of doping effect on the removal of chlorides, in Electro sorption process” in the National conference on “Recent innovations in Civil Engineering” held on 25-03-2017 at Mohamed Sathak Engineering college, Kilakarai.
 19. Presented a paper titled as Removal of Copper by Photocatalytic Method in the National conference on Advanced Techniques in Concrete, Environmental and Geotechnical Engineering, on 21-03-2018 at Kings College of Engineering, Punakulam.
 20. Presented a paper titled as Performance Assessment of Earthworms on Vermicomposting with Food Waste as Substrate in the National Conference on Innovative Trends and Advances in Civil Engineering on 16-03-2019 at Kings College of Engineering, Punakulam.
 21. Presented a paper titled as Reclamation Analysis on Diesel Spillage Land Using Phytoremediation in the National Conference on Innovative Trends and Advances in Civil Engineering on 16-03-2019 at Kings College of Engineering, Punakulam.
 22. Presented a paper titled as Bioleaching of Copper from E-waste using Isolated Strains in the National Conference on Innovative Trends and Advances in Civil Engineering on 16-03-2019 at Kings College of Engineering, Punakulam.
 23. Presented a paper titled as Performance Assessment of Electrode Materials in the Treatment of Leachate by using Electrocoagulation Process in the National Conference on Innovative Trends and Advances in Civil Engineering on 16-03-2019 at Kings College of Engineering, Punakulam.
 24. Presented a paper titled as Removal of fluoride by Electrocoagulation Process in online National conference on Recent Trends in Civil and Environmental Engineering on 26.08.2020 at Anna University, Trichy.
 25. Presented a paper titled as Performance Evaluation of Locally Sourced filter media materials for water treatment in online National conference on Recent Trends in Civil and Environmental Engineering on 26.08.2020 at Anna University, Trichy.
 26. Presented a paper titled as Experimental study on Removal of Nitrogen and Phosphorous from wastewater by Microalgae in online National conference on Recent Trends in Civil and Environmental Engineering on 26.08.2020 at Anna University, Trichy.
 27. Presented a paper titled as Removal of Fluoride from Water using Levigated Kaolin Clay as low-cost adsorbents in Recent Innovations in Structures and Environment on 12.08.2022 at ACGCET, Karaikudi.
 28. Presented a paper titled as Removal of Ammonia Nitrogen and Phosphorous using Electrochemical Cell in Recent Innovations in Structures and Environment on 12.08.2022 at ACGCET, Karaikudi.

29. Presented a paper titled as Production of Hydrogen using Bioelectrochemical Cell from Municipal Waste water in Recent Innovations in Structures and Environment on 12.08.2022 at ACGCET, Karaikudi.
30. Presented a paper titled as Optimization of turbidity removal parameters by natural coagulant in Recent Innovations in Structures and Environment on 12.08.2022 at ACGCET, Karaikudi.
31. Presented a paper titled as Experimental study on Bioleaching of Copper from E-Waste using Isolated Bacterial Strains in Recent Innovations in Structures and Environment on 12.08.2022 at ACGCET, Karaikudi.
32. Presented a paper titled as Physico-chemical changes of sago waste with cottonseed meal during composting in Recent Innovations in Structures and Environment on 12.08.2022 at ACGCET, Karaikudi.

Guest Lectures delivered:

1. Delivered an expert lecture titled Biogas generation using Kitchen waste in Faculty Development Program on Future Trends in Green Energy at ACCET, Karaikudi held during 18.07.2016 -24.07.2016.
2. Delivered an Expert lecture titled Fluid Statics in One week Faculty Development Programme on Fluid Mechanics at Anna University, Tiruchirapalli held during 24.06.2019-30.06.2019.
3. Delivered an awareness lecture titled Ground water recharge at Government Higher Secondary School, O.Siruvayal, Karaikudi on 17.03.2022.
4. Delivered an Expert lecture on Renewable Energy generation from Kitchen waste on One day national level online seminar on Sustainable Solid Waste Management in Urban Cities at Sri Bharathi Engineering college for Women, Pudukkottai on 18.02.2023.

Memberships in Professional Societies:

1. Indian Society for Technical Education.
2. Institution of Engineers.
3. American Society of Civil Engineers.

Workshop/FDP/Event Organized

S. No.	Title of the Course	Name of the Institution	Duration
1.	National conference on “Recent Innovations in Structures and Environment” held on	ACCET, Karaikudi	28, May 2014
2	TEQIP II sponsored National Conference on Recent Trends in Environmental and Structural Engineering	ACCET, Karaikudi	10, March 2016
3	One day Guest Lecture on Innovation, Clean Technology and Renewables-Trends and Opportunities	ACCET, Karaikudi	21, April 2016

4	TEQIP I sponsored Faculty Development Programme on Ground Improvement Techniques	ACCET, Karaikudi	1-7, August 2016
5	Two day Workshop on NSS Documentation	ACGCET, Karaikudi	15-16, March 2018
6	Seven day NSS Special Camp	Pallavangudi, Karaikudi	11-17, March 2019
7	Mega Tree Plantation (One student-One Tree Campaign) Programme	ACGCET, Karaikudi	14-August 2019
8	Blood Donation Camp	ACGCET, Karaikudi	22-August 2019
9	Fit India Movement	ACGCET, Karaikudi	29-August 2019
10	Swachhata Hi Sewa- Plastic Waste Free Campaign	ACGCET, Karaikudi	01-October 2019
11	Constitution Day celebration	ACGCET, Karaikudi	26-November 2019
12	Seven-day NSS special camp	Kotheri, Karaikudi	05-11, March 2020
13	Seven-day NSS special camp	Ariyakudi, Karaikudi	15-21, March 2022
14	Mega Blood Donation camp	ACGCET, Karaikudi	28, April 2022
15	International Yoga Day	ACGCET, Karaikudi	21, June 2022
16	National Flag at Every Home and Drive Against Drugs Awareness Rally	ACGCET, Karaikudi	11, August 2022
17	National Conference on Recent Innovations in Structures and Environment (RISE'22)	ACGCET, Karaikudi	12, August 2022
18	Voter Awareness Program-SVEEP	ACGCET, Karaikudi	28, October 2022
19	Clean India 2.0 campaign	ACGCET, Karaikudi	30, October 2022
20	Standard Club Inaugural ceremony	ACGCET, Karaikudi	11, November 2022
21	Soil Conservation Day	ACGCET, Karaikudi	5, December 2022
22	Medical Checkup camp- UG and PG students	ACGCET, Karaikudi	30.01.2023- 20.02.2023
23	Seven-day NSS special camp	Kotheri, Karaikudi	23-29, March 2023

Workshop/FDP Attended:

S. No.	Title of the Course	Conducted By	Place	Duration
1.	Indo-Russian Workshop on Environment and Pollution Control Technologies	Centre for Climate Change, Periyar Maniammai University	Vallam, Thanjavur	September 27, 2012
2.	Two day Workshop on Municipal Solid Waste for Renewable Energy Production	Centre for Climate Change, Periyar Maniammai University and Ministry of	Vallam, Thanjavur	19-20, November, 2012

		New and Renewable Energy, Govt of India		
3.	Two day National Workshop on Trenchless Technology	Periyar Maniammai University and Indian Society for Trenchless Technology	Vallam, Thanjavur	23-24, November, 2012
4.	Two day National Workshop on Benefits and Risk of Nanotechnology for Environmental Sustainability	Ministry of Earth Sciences, Govt. of India and Periyar Maniammai University	Vallam, Thanjavur	19-20, December, 2012
5	One day Workshop on Preparing Project Proposal for Funding	Department of Computer Science and Engineering, ACCET	Karaikudi	11, September 2013
6	National Workshop on Accreditation & Autonomy	ISTE-WPLP	Kanyakumari	6-8, January 2014
7	Continuing Professional Development Programme on The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013	Engineering Staff College of India	Hyderabad	4-8, February 2014
8	Faculty Development Programme on Management of Quality Circles for Effectiveness of Educational Institutions	Teaching Learning Centre, ACCET	Karaikudi	19-20, March 2015
9	Faculty Development Programme in Entrepreneurship	Centre for Entrepreneurship Development and ACCET	Karaikudi.	01-14, June 2015
10	One day Seminar on Fabrication and Characterization of thin films for Engineering Applications	Research and Development Cell, ACCET	Karaikudi.	27 October 2015
11	One day Workshop on Shake Table with Instrumentation-Demo	Department of Civil Engineering, ACCET	Karaikudi.	12, January 2016
12	One day workshop on Advancements in Steel Design	Department of Civil Engineering, ACCET	Karaikudi.	29, February 2016
13	Faculty development programme on "Finite Element Analysis and Applications"	Department of Mechanical Engineering, ACCET,	Karaikudi.	13 April, 2016
14	Three days workshop on "Soft computing and Applications"	Department of Computer Science and Engineering ACCET,	Karaikudi.	12-14, July, 2016

15	Faculty Development Programme on “Future trends in Green Energy	Department of Mechanical Engineering, ACCET,	Karaikudi.	18-24, July 2016
16	Faculty Development Programme on “Recent Developments in Materials science	Department of Physics, ACCET	Karaikudi.	08-14, August 2016
17	Two weeks short term training programme on “Optimization Techniques For Solving Engineering Problems”	Department of Computer Science and Engineering ACCET,	Karaikudi.	22, August-04, September 2016
18	One week short term training Programme on “Advanced Mathematics in Engineering	Department of Mathematics, ACCET	Karaikudi.	14-20, September 2016
19	Interdepartmental one week Faculty Development Programme on “Energy, Environment and Climate change	Department of Chemistry, ACCET	Karaikudi.	18-24, January 2017.
20	Two days workshop on “Advanced surveying with training on Total station, Laser, Distancemeter, Planimeter and GPS	Department of Civil Engineering, ACCET	Karaikudi	21-22, February 2017
21	Two Week Faculty Development on “Thin Film Deposition and Characterization	Department of Physics, ACCET	Karaikudi.	21 November-04 December 2017
22	One day Workshop on Building Bye Laws and Development Control Regulations	Department of Civil Engineering, ACCET	Karaikudi	27, March 2018
23	Two Week Faculty Development programme on “Recent Trends & Research Opportunities in Civil Engineering Field	Department of Civil Engineering, ACCET	Karaikudi	19-30, November 2019
24	Two day Faculty Development Programme on Design, Develop and Deliver online courses through MOODLE platform	Department of Technical Education State Project Implementation Unit - Tamil Nadu & Coimbatore Institute of Technology, Coimbatore	Karaikudi.	23-24, April 2020
25	Faculty Development Programme on Water Supply Engineering	NPTTEL-AICTE		Jan-Apr 2020
26	Three weeks Industrial Training on Telecom Tower Construction	BSNL	Karaikudi	15, May 2020 to 05, June 2020

27.	12 Weeks NPTEL-AICTE course, FDP on “Environmental Quality Monitoring & Analysis”	NPTEL-AICTE		24.01.2022 to 15.04.2022
28.	One day Orientation programme for NSS Programming Officers	Anna University,	Chennai	11.10.2022
29.	Two day training program for mentors of BIS Club	Bureau of Indian Standards	Trichy	24.11.2022 to 25.11.2022
30.	Faculty Development Program on Architecture Vizualisation	PSNA	Dindigul	13.02.2023 to 17.02.2023
31.	State Level Orientation for NSS Program Officers under Naan Mudhalvan Scheme	Bharathidasan University	Trichy	29.03.2023