

Dr. A. Leena Pauline M.E., Ph.D.

Assistant Professor | Department of Civil Engineering

University VOC College of Engineering, Anna University – Thoothukudi Campus, Thoothukudi, Tamil Nadu, India

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RESEARCH IDS

Scopus 57217686072
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Vidwan 680107
Citations 474 · h-index 3 · i10-index 3

Reviewer
Biomass Conversion and Biorefinery; Water, Air, & Soil Pollution (Springer Nature)

FIELDS OF INTEREST

- Water Supply & Wastewater Engineering
- Strength of Materials
- Industrial Waste Management
- Environmental Impact Assessment
- Climate Change – Extreme Events

EDUCATION

Ph.D. Civil Engineering 2023
College of Engineering Guindy, Anna University, Chennai

M.E. Environmental Engineering 2017
College of Engineering Guindy, Anna University, Chennai

B.E. Civil Engineering 2015
Government College of Engineering, Tirunelveli (Anna University)

HSC 2011
Holy Cross Anglo-Indian Hr. Sec. School, Tuticorin

SSLC 2009
Holy Cross Anglo-Indian Hr. Sec. School, Tuticorin

RESPONSIBILITIES

- Member, Naan Mudhalvan Skill Course Technical Evaluation Committee (Civil), DOTE
- Autonomous Exam Cell member, WPT
- Cultural Club Co-ordinator, WPT
- Development of Computer in DCE, WPT
- Member, Internal Complaints Committee / Sexual Harassment Redressal Committee, WPT
- Environment Development Thrust-Area Manager, WPT
- Member, Curriculum Committee, WPT
- SPOC, Nal Jal Mitra Programme, WPT

PROFESSIONAL EXPERIENCE

Assistant Professor — Dec 2025 – Present
Anna University, Thoothukudi · *Teaching*

Lecturer — Oct 2022 – Dec 2025
Government Polytechnic College for Women, Chennai · *Teaching · 3 yrs 2 mos*

Assistant Engineer — May 2022 – Oct 2022
Tamil Nadu Pollution Control Board · *Industry · 5 mos*

Research Scholar — Jul 2017 – Apr 2022
College of Engineering Guindy, Anna University, Chennai · *Research · 4 yrs*

JOURNAL PUBLICATIONS

- Gerald Paul, Saranya Kuppusamy, A. Leena Pauline, Kanmani Sellappa (2026). **"Sustainable biochar-based bricks: evaluating the mechanical, thermal and durability properties of paddy stubble biochar for structural applications."** *Innovative Infrastructure Solutions, 11:153, 1–19*
- A. Leena Pauline & Kurian Joseph (2024). **"Utilizing hydrothermal carbonization for sustainable processing and reuse of oily sludge."** *J. Hazardous, Toxic and Radioactive Waste (ASCE), 28(4), 04024025*
- A. Leena Pauline & Kurian Joseph (2024). **"Hydrothermal carbonization of crude oil tank bottom sludge for energy applications."** *J. Hazardous, Toxic and Radioactive Waste (ASCE), 28(4), 04024017*
- A. Leena Pauline & Kurian Joseph (2021). **"Hydrothermal carbonization of crude oil sludge – Characterization of hydrochar and hydrothermal liquor."** *Process Safety and Environmental Protection, 154, 89–96*
- A. Leena Pauline & Kurian Joseph (2021). **"Hydrothermal carbonization of oily sludge for solid fuel recovery – investigation of chemical characteristics and combustion behaviour."** *J. Analytical and Applied Pyrolysis, 157, 105235*
- A. Leena Pauline & Kurian Joseph (2020). **"Hydrothermal carbonization of organic wastes to carbonaceous solid fuel – A review of mechanisms and process parameters."** *Fuel, 279, 118472*

WORKSHOPS, FDPS & TRAINING

- FDP on "3D Printing in Civil", Government College of Engineering, Tirunelveli, by Tamil Nadu Skill Development Corporation, 29 Dec 2025 – 4 Jan 2026.
- Skill Development Workshop on Concrete Mix Proportioning, Easwari Engineering College, 1 Mar 2024.
- DOTE-SPCU Environment Development Workshop, TPEVR Govt. Polytechnic, Vellore, 11 Mar 2023.
- Youth & Climate one-day conference, 28 Oct 2022.
- Faculty Development Induction Training Programme, NITTTR Chennai, 12–25 Nov 2022.
- Design Thinking Workshop, Central Polytechnic College, 1/3/5 Nov 2022.
- Training on TN Government Servant Conduct Rules, Service Procedure, File Management System, Anna Administrative Staff College, 26–28 May 2022.
- Short Term Executive Induction Programme on Solid, Liquid and Air Pollution Treatment Methods (NSQF Level-4), CSIR-CLRI, Adyar, 9–14 May 2022.
- International Conference on Sustainable Future: Resource Recovery & Concentrate Management (Wiley), Anna University, 6 Jan 2020.
- Author Workshop "How to Write Research Papers Effectively", Anna University Library & Elsevier India, 6 Sep 2019.
- Training on "URKUND: Plagiarism Detection Service", Anna University, 3 Apr 2019.
- AWSAR Workshop on Popular Science Writing (DST, Vigyan Prasar & TNSTC), Anna University, 18 Sep 2018.
- Course on Science and Technology in CO_2 Conversion (GIAN & MHRD), Anna University, 7–18 Nov 2016.
- Summer Internship, Hiyoshi Corporation, Japan, 18 May – 16 Jul 2016.