



TAGORE ENGINEERING COLLEGE

(A Member of Tagore Group of Institutions Chennai)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

ACCREDITED BY IQAC-NAAC WITH 'A' GRADE

FACULTY PROFILE

PERSONAL DETAILS			
Name & Qualification	S. ARUNTHATHI M.E.		
Designation	Assistant Professor		
Department	Civil Engineering		
Total Teaching Experience	12Yrs		
Total Research Experience	5 Yrs		
Total Industry Experience	-		
Area of Specialization	Environmental Engineering		
AICTE Faculty ID			
Email ID	arunthathisendilvadivelu@gmail.com		
EDUCATIONAL DETAILS			
Degree	Branch/ Specialization	University	Year
UG	B.E.(CIVIL)	Anna University	2005
PG	M.E.(ENVIRONMENTAL ENGG.)	Anna University	2007
Ph.D	Pursuing	Anna University	-
RESEARCH / PUBLICATION DETAILS			
Publications in Journal			
<ol style="list-style-type: none"> 1. Arunthathi Sendilvadivelu, Balaji Dhandapani, Sivapriya Vijayasimhan, and Surya Prakash Pauldurai Kalaiselvi, "Sustainable Stabilization of Clay Soil Using Lime and Oryza sativa-Waste-Derived Dried Solid Digestate", Sustainability, (2025). 17(18), 8447; https://doi.org/10.3390/su17188447. 2. Arunthathi Sendilvadivelu, Balaji Dhandapani, Sivapriya Vijayasimhan, "Augmentation of Clayey Soil Strength Using Bio-stabilized Waste Ash and Lime: Long-Term Performance and Microstructural Analysis", Iranian Journal of Science and Technology, Transactions of Civil Engineering, (2025). https://doi.org/10.1007/s40996-025-01997-x. 3. Arunthathi Sendilvadivelu, Balaji Dhandapani, Sivapriya Vijayasimhan, "Exploring the Impact of Temperature in Valorizing Digestate as a Strength Enhancer of the Expansive 			

Soil”, Bulletin of Materials Science. 48, 36 (2025). <https://doi.org/10.1007/s12034-024-03394-y>.

4. S. Arunthathi, D Balaji, SV Sivapriya, Strength, mineralogical and microstructural studies on clayey soil stabilized by bio-stabilized waste ash with lime, Journal of Material Cycles and Waste Management, Vol. 25, Issue 6, p 3625 - 3637, 2023.
5. S. Arunthathi, D Balaji, SV Sivapriya, A Short Review on Feedstock Characteristics in Methane Production from Municipal Solid Waste, Architecture Civil Engineering Environment, Vol. 15, Issue 3, p75-85, 2022.
6. S. Arunthathi, Assessment of Groundwater Contamination in a Suburban Area of Chennai, Tamil Nadu, India, Environment, Development and Sustainability, p1-13,2017, ISSN-1387-585X.
7. S. Arunthathi, Removal of Chromium from Groundwater using Neem Leaves as Adsorbent, International Journal of Environmental Research, 9(2), p439-444, 2015, ISSN-1735-6865
8. S. Arunthathi, Review of Electrocoagulation Efficiency for the Pollutants Removal from Water and Wastewater, Pollution Research, Vol. 33 Issue 3, p583-590, 2014.
9. S. Arunthathi, Comparison of Phytoremediation with Bioremediation for Atrazine Removal from Wastewater, International Journal of Applied Environmental Science, Vol.3 Issue3, p271, 2008.

Conference Publications

International Conferences

1. S. Arunthathi, SV Sivapriya, D Balaji, Assessing the compaction characteristics of modified soil with incinerated municipal solid waste, Materials Today: Proceedings, Vol. 62, p629-632, 2022.
2. S. Arunthathi, Study on Assessment of Water Quality Data along a stretch of River Cauvery using Cluster Analysis, Journal of Applied Science & Computation, Vol. VI, Issue V, p2396-2399, 2019, ISSN-1076-5131.
3. S. Arunthathi, A Study on Removal of Fluoride from Water using rice husk & moringa oleifera, Journal of Chemical and Pharmaceutical Sciences, Vol. 9, Issue. 3, p1495-1497, 2016, ISSN-0974-2115.

Paper presented at the Conferences

1. Presented a paper entitled “Enhancing Expansive Soil Stability Using Valorised Digestate Ash Under Variable Temperatures”, 6th International Conference on Sustainable Practices and Innovation in Civil Engineering- SPICE 2025, Sri Sivasubramaniya Nadar College of Engineering, 13th and 14th February 2025.
2. Presented a paper “A short review on Management of Municipal Solid Waste in various Indian cities”, Sixth International Conference on Recent Advancements in Chemical, Environment & Energy Engineering (RACEEE-2022).
3. Presented a paper “A Mini Review on Centralized Waste Management System in India”, International Conference on Sustainable Practices and Innovations in Civil Engineering (SPICE) 2021, 19th & 20th March 2021.

4. Presented a paper “A Review on Bio-gas yield from Organic Fraction of MSW using Anaerobic Digestion”, Eighth National Conference on Recent Advancements in Geotechnical Engineering (NCRAG’21), Bannari Amman Institute of Technology, 26th March 2021.
5. Presented a paper “Study on Assessment of Water Quality Data Along a Stretch of River Cauvery using Cluster Analysis, International Conference on Science, Technology, Engineering and Mathematics (ICONSTEM-2019), Jeppiaar Engineering College, Chennai, 14th & 15th March 2019.
6. Presented a paper “A Study on Removal of Fluoride from Water using Rice- husk and Moringa-oleifere, International Conference on Science, Technology, Engineering and Management (ICONSTEM-2016), Jeppiaar Engineering College, Chennai, 30th and 31st March 2016.
7. Presented a paper “GIS-based municipal solid waste management, National Conference on Innovation in Civil Engineering, A.C. College of Engineering and Technology, Karaikudi, 28th March 2008.
8. Presented a paper “Study on Defluoridation of water using Natural Products, National Level Conference on Frontline Areas of Civil Engineering, V L B Janakiammal College of Engineering and Technology, Coimbatore, April 20-21, 2007.

Paper presented at the Conferences

1. Participated in an International Webinar Series on Geoenvironmental Engineering, Sustainability, and Resiliency entitled “Incineration Ashes as Secondary Resources: Extraction of Scarce Elemental Resources and Recycling into Construction Materials” online mode on March 13, 2025.
2. Attended seminar on Navigating the pathways of publishing in High-quality journals, Sri Sivasubramaniya Nadar College of Engineering, Chennai, 09th October 2023.
3. Participated in “Circular Economy for Sustainable Waste Management” online at Adithya Institute of Technology on 27th October 2023.
4. Participated in the international workshop on “Circular Solutions to Sanitation – Making Profit from Toilets”, IIT Madras, 29th and 30th March 2023.
5. Participated in the One-day international seminar on “Technologies for Energy from Municipal Solid Waste”, Anna University Chennai on 19.03.2022
6. Participated in a Two-days workshop on “Construction Planning & Scheduling Using Software Tool – MS Project”, Jeppiaar Engineering College, 16th & 18th August 2018.
7. Participated in the Faculty Development Programme on “Modern Eco-friendly Materials in Civil Engineering and Hands-on Training on Advanced Environmental Engg. Lab. Equipment (AAS & GC)”, Jeppiaar Engineering College, 1st to 3rd & 6th to 8th June 2016.
8. Participated in the Faculty Development Programme on “Advanced Techniques & Innovative Applications in Biotechnology & Chemical Engineering”, Jeppiaar Engineering College, 16th to 22nd July 2016.
9. Participated in the Faculty Development Programme on “Recent Advances in Cement and Concrete”, Jeppiaar Engineering College, 15th, 16th & 17th November 2016.

<p>10. Participated in the Faculty Development Training Programme on “CE 6605- Environmental Engineering-II”, College of Engineering, Anna University, 1st to 5th & 9th to 11th DEC 2016.</p> <p>11. Participated in Seminar on “Research Methodology”, Jeppiaar Engineering College, 12th October 2016.</p> <p>12. Participated in Seminar on “Challenges and Opportunities in Civil Engineering”, Tagore Engineering College, 10-11 February 2011.</p> <p>13. Participated in the Short-term Course on “Instructional Design and Delivery”, Kalasalingam University, 08.12.2008 to 12.12.2008.</p> <p>14. Participated in the Seminar on “Building Rules and Specifications”, at Meenakshi Mission Hospital and Research Centre, Madurai, 16.02.2008.</p>		
Books / Chapters Published		
-		
Fund Received		
<ul style="list-style-type: none"> • Principal Investigator(s) : Ms. S. Arunthathi • Funding Agency : TNSCST • Duration of the project : 2009 – 2010 • Project title : Design of Low-Cost Effective Treatment System for Industrial Waste Water causing Serious Environmental Problems 		
Patent Applied / Published/Granted		
<ul style="list-style-type: none"> • The Patent filed in December 2024, entitled "Improving the strength of problematic soil using chemically treated anaerobic digestate as a soil stabilizer" (Application No. 202441104197) 		
CITATIONS	69	
H-INDEX	5	
RESEARCH GUIDANCE DETAILS		
Sl.No	University	Supervisor ID / Reference
1	Anna University, Chennai	-
2	Number of UG Scholars Guided	15
3	Number of PG Scholars Guided	03

4	Number of Ph.D. Scholars Guided	-
5	Number of Ph.D. Scholars Pursuing	-
PROFESSIONAL SOCIETY MEMBERSHIP DETAILS		
Sl.No	Professional Society Name	Member ID
1	ISTE	59156