



Work Address

Dream Institute of Technology,
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700104

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E-Mail: sushma.civil.engg@gmail.com

Dr. SUSHMA DAS

Objective

To leverage my expertise in Environmental Engineering, water and wastewater treatment, and academic leadership to contribute to innovative, sustainable, and research-driven solutions in academia and industry..

Experience

November, 2023 to Till now, **Dream Institute of Technology**
HOD & Asst. Prof. of Civil Engineering
Department

Education

1. Ph.D in Civil Engineering, Indian Institute of Engineering Science and Technology, IIST Shibpur 2021.
2. M.Tech. in Civil Engineering, Jadavpur University (JU)
3. B.Tech in Civil Engineering, Haldia Institute of Technology (WBUT)

Publications

- Sushma Das (2025) Ground water analysis of different areas in Kolkata and comparison with different states of India, Proceedings of 2nd International Conference on Pollution Control for Clean Environment (ICPCCE 2025) 22-23 December 2025, IIT Bhubaneswar, pp: 62.
- Sushma Das, Asok Adak (2024) Adsorptive Removal of Methylene Blue and Congo Red in binary solute using Raw Rice Husk as a Low-cost Adsorbent, Sustainable Advanced Technologies for Industrial Pollution Control- ATIPC 2024, pp: 229-242, Springer Cham. https://doi.org/10.1007/978-3-032-07962-6_15.

- Sushma Das, Asok Adak, Ananya Barui (2023) Fabrication of Cellulose acetate based electrospun nanofiber membranes and its application for Ciprofloxacin removal; International Conference on Sustainable Advanced Technologies for Environmental Management (pp. 11-22), Cham: Springer Nature, Switzerland Springer Proceedings in Earth and Environmental Sciences (SPEES). DOI : https://doi.org/10.1007/978-3-031-64006-3_2
- Sushma Das, Asok Adak, Ananya Barui (2020) Montmorillonite impregnated electrospun cellulose acetate nanofiber sorptive membrane for ciprofloxacin removal from wastewater, Journal of Water Process Engineering 37 (2020) 101497, DOI no.: <https://doi.org/10.1016/j.jwpe.2020.101497>
- Sushma Das, Asok Adak, Ananya Barui (2020) Determination of minimum inhibition concentration of bacteria (E. coli and S. aureus) in surface water and wastewater against ciprofloxacin, J. Indian Chem. Soc., Vol. 97, April 2020, pp. 547-553, DOI no: [10.5281/zenodo.5638530](https://doi.org/10.5281/zenodo.5638530)
- Sushma Das, Asok Adak, Ananya Barui (2019) Fabrication of Montmorillonite impregnated cellulose acetate nanofiber membrane and its use for adsorption of Ciprofloxacin, J. Indian Chem. Soc., 2019, Vol. 96, April 2019, pp. 475-479, DOI no: [10.5281/zenodo.5637837](https://doi.org/10.5281/zenodo.5637837)
- Sushma Das, Asok Adak, Ananya Barui (2018) Removal of Antibiotics from water and wastewater by nanofiber membrane, First International Conference on Energy and Environment: Global Challenges ICEE 2018, NIT Calicut, March 2018, pp. 55-56.
- Sushma Das and Joy Kumar Mondal, (2024) A Matlab Based Algorithm for Parametric Study of Reinforced Soil Wall Based on Pseudo Static Approach, Advanced Research and Review in Civil Engineering (Volume - 1), <https://doi.org/10.62906/bs.book.483>.

Conferences

- Attended 2nd International Conference on Pollution Control for Clean Environment – 2025(ICPCCE 2025) December 22-23, 2025, School of Infrastructure and Department of Electrical Engineering, Indian Institute of Technology Bhubaneswar.
- Attended 4th International Conference on Advanced Technologies For Industrial Pollution Control (ATIPC-2024) December 17-19, 2024, Civil Engineering Department, IIST Shibpur.
- Attended 1st International Conference on Sustainable Advanced Technologies for Environmental Management (SATEM-2023), December 20 – 22, 2023, Civil Engineering Department, IIST Shibpur.
- Attended 2nd National Conference on Sustainable advanced technologies for Environmental Management (SATEM-2019), December 18 – 20, 2019, Civil Engineering Department, IIST Shibpur.
- Attended International Conference on Advanced Technologies for Industrial Pollution Control (ATIPC 2018), December 17 – 19, 2018, Civil Engineering Department, IIST Shibpur, Howrah, West Bengal.
- Attended Conference on Water, Sanitation and Hygiene (WASH) for All Sustainability Issues under Rural Indian Conditions, 17th March 2018, IIST, Shibpur.
- Attended 1st International Conference on Energy and Environment: Global Challenges ICEE 2018 March 9 -10, Department of Chemical Engineering, NIT Calicut, Kerala, India.

Accomplishments & Awards

- Awarded “Certificate of Reviewing” from American Journal of Water Science and Engineering (AJWSE), in recognition of the review (titled "*Solid Waste Management in the Municipality of Cardona: Issues, Praxes, and Prospects in 18 Barangays — A Qualitative Inquiry*"), Science Publishing Group, New York, NY 10020 U.S.A., 24th September, 2025.
- Awarded “Certificate of Excellence in Reviewing” from Asian Journal of Microbiology and Biotechnology, in recognition of review (Manuscript no. Ms_AJMAB_13612, "*Antibiotic Susceptibility Pattern of bacteria Isolated from Elechi Creek in Rivers State*", Certificate No: PRAJMAB/13612SUS), Academic Year: 2025-2026, 12th September, 2025.
- Awarded “Certificate of Reviewing” from American Journal of Water Science and Engineering (AJWSE), in recognition of review (*Solvent-Driven Fractional Crystallization applied to Mining Wastewater Desalination: Effect of pH and Solvent-water mixing ratio*), Science Publishing Group, New York, NY 10020 U.S.A., 13th May, 2025.
- Completed course on AICTE Training and Learning Faculty Development Program on “Drinking Water Quality and Public Health” at National Institute of Technical Teachers' Training & Research, Kolkata from 18/11/2024 to 29/11/2024.
- Completed course on AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Waste Management Technology and Sustainability” at National Institute of Technical Teachers' Training & Research, KOLKATA from 15/01/2024 to 20/01/2024.
- Awarded 3RD prize in 1ST International Conference on SATEM-2023 held in IEST Shibpur for best paper and presentation.
- Awarded 2ND prize in International Conference on ATIPC-2018 held in IEST Shibpur for best paper and presentation.
- Granted Institute Fellowship from the Government of India for pursuing the degree of Doctoral of Philosophy.
- Handpicked to host the international conference ATIPC-2018 and SATEM-2019 in IEST Shibpur in two years in a row
- I have achieved significant professional accomplishments, and I have also excelled in extracurricular activities completing 6th year in Fine Arts (Oil painting) and 5th year in Bharat Natyam (Dance).

Additional Information

- Proficient in Microsoft Word, PowerPoint, Excel.
- LinkedIn Link: www.linkedin.com/in/dr-sushma-das-1b1b0a56
- Orcid : <https://orcid.org/0009-0001-0194-990X>
- Google Scholar: <https://scholar.google.com/citations?hl=en&user=VtzXFUsAAAAJ>
- ResearchGate: <https://www.researchgate.net/profile/Sushma-Das-3>

Personal Details

Name	DR. SUSHMA DAS
Date of Birth	12/03/1986
Residential Address	Block 3, Flat 4D, James Residency, 1 Motilal Gupta Road, Kolkata 700008
Contact no	9932632317, 9051069120
Parents name	Mrs. Shakuntala Das, Mr. Shambhu Das

Subject taken in UG Level

- i. Basic Environmental Engineering and elementary biology
- ii. Energy Science and Engineering
- iii. Environmental Engineering 1 & II
- iv. Environment Pollution and Control
- v. Environmental Engineering Laboratory
- vi. Concrete Technology (Theory and Laboratory)
- vii. Introduction to Fluid Mechanics (Theory and Laboratory)
- viii. Building Construction and Practice
- ix. Air and Noise Pollution Control
- x. Physico-chemical Processes for water and wastewater treatment
- xi. Water and Air quality Modelling, and Environmental Laws and Policy

I affirm that all the information given here is true to the best of my knowledge.



Place: Kolkata