Work address Dream Institute of Technology Kolkata- 700104

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DR. SUSHMA DAS

Objective	Research and development position for solving challenging problems in Civil engineering and Environmental engineering.	
Experience	Nov.2023 – current July. 2011 –2023	Dream Institute of Technology, Thakurpukur, Kolkata 700104 Assistant Professor of CE Calcutta Institute of Engineering and Management, 24/1A, Chandi Ghosh Road, Tollygunj Assistant Professor of CE
Education	 Ph.D., Civil Engineering, Indian Institute of Engg Science and Technology, IIEST Shibpur Dissertation: Evaluation of Ciprofloxacin Resistance in <i>E. coli</i> and <i>S. aureus</i> Isolated from Wastewater and Removal of the Antibiotic by Montmorillonite-impregnated Nanofiber Sorptive Membrane Date of Defence: 11th August 2021 	
	Associate Prof M.Tech., Civi June 2011 P Thesis: Adsory Binar as a I	Supervisior: Dr. Asok Adak) Fessor, Civil Engineering Department, IIEST Shibpur Il Engineering Department, Jadavpur University ercentage: 72.33% ptive Removal of Mixed Dye (Methylene Blue and Congo Red) as ry Solute from Aqueous Medium Utilizing Raw Rice Husk (RRH) Low Cost Adsorbent or : Dr. Anupam Deb Sarkar) e 2011
	B.Tech., Civil MAKAUT. , J GPA : 7.96/10	
Awards	 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 IIEST Shibpur for best paper and presentation. Awarded 2ND prize in International Conference on ATIPC-2018 held in IIEST 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 IIEST Shibpur in two years in a row I have achieved significant professional accomplishments, and I have also 	

excelled in extracurricular activities completing 6^{th} year in Fine Arts (Oil painting) and 5^{th} year in Bharat Natyam (Dance).

Research Skills

- Conducted research on membrane fabrication and analysis of wastewater treatment.
- Handled complex machineries such as ESPIN-NANO, Needle based Electro spinning machine for membrane fabrication.
- Operated machineries like HPLC (High Performance Liquid Chromatography), TOC (Total Organic Carbon), AS (Atomic Spectroscopy), UV-VIS single and double beam spectrophotometer for the analysis of samples.
- Operated Micro plate Reader to determine the optical density of the sample.
- Assisted and coordinated with other research scholars in their respective fields of study.
- Assisted post-graduate students in comprehending their projects and analysing samples using complex machinery such as HPLC, TOC, AS and Spectrophotometers.
- Provided a clear understanding of the working principles of these instruments and helped them develop methods for sample analysis.
- Helped and assisted postgraduate students in developing their knowledge of writing a thesis for their degree.
- Guided undergraduate students in understanding and conducting experiments in Environmental Engineering laboratories.

List of Publications	 Journals 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.: <u>https://doi.org/10.1016/j.jwpe.2020.101497</u>
	• 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: <u>10.5281/zenodo.5638530</u>
	• 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: <u>10.5281/zenodo.5637837</u>
	• Sushma Das, Asok Adak, Ananya Barui (2018) Removal of Antibiotics from water and wastewater by nanofiber membrane, Conference paper on First International Conference on Energy and Environment: Global Challenges ICEE 2018, NIT Calicut, March 2018, pp. 55-56

Conference Papers

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

Additional Info • 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 References

Available upon request.