

MRS. NAYNA DATTA

M.Phil. (ENVS, JU), M.Sc. (ENVS, CU) NET in Environmental Science

Present Designation: State Aided College Teacher (Category I) at Women's Christian College, Kolkata

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Teaching & Research experience

Research interest: Wastewater Treatment, Biotechnology, Microbiology.

1. **Project handled as JRF: Completed two-year tenure of Junior research fellow at School of Environmental studies in Jadavpur University.**
Title- "Evaluation of Efficacy of Utilizing Abattoir Waste as Soil Conditioner for plantation of some Specific Plants- A Feasible Waste Minimization Option for Abattoir Waste"
*Objective-*The study of efficacy of converting waste blood emanating from small scale rural slaughter houses to blood meal by mixing with rumen digesta and other waste products and its subsequent use as soil conditioner in an ecofriendly manner for plantation of some specific plants adjusting its NPK ratio.
2. **M.Phil project-**
Title- "Adsorptive phenol removal from synthetic waste water utilizing fly ash".
Objective- An exhaustive batch study has been conducted in order to assess the removal efficiency of phenol from synthetic waste water with fly ash varying different parameters of the system like fly ash dose, phenol concentration, pH etc. A desorption study has also been done using different chemicals like ethanol, acetone etc.
3. **M.Sc. project-**
Title- "Study on the characterization and treatability of the waste water of a textile industry by chemical methods".
Objective- A Comparative assessment of textile industry effluents has been performed analyzing different water quality parameters like BOD, COD, TDS etc. before and after treatment. The waste water is subjected to chemical treatments with lime, ferric chloride, ferrous sulfate as coagulants etc.
4. **Teaching Experience-**
 - a) *Worked as a part time faculty of Dinabandhu Andrews Institute of Technology & Management (Affiliated to West Bengal University of Technology) in the subject of 'Environment & Ecology' for BCA 4th semester course.*
 - b) *13 years teaching experience on Environmental Studies in Women's Christian College, Kolkata*

Project handled:

1. Associated in an environmental related Herbal project work in **Chemical Engineering Department of Jadavpur University** for 8 months.

2. Associated with the project entitled -“Environmental Management & Action Plans under DFID supported KUSP program for 40ULBS” for 2 months in **Scientific research laboratory**.
3. Associated with a in-house project of ‘Solid Waste management’ (As National Environment Awareness campaign programme, 2006) in Jadavpur University campus.

Instrument handled:

UV-VIS Spectrophotometer, Flame Photometer, pH meter, Centrifuge, Conductivity meter, Turbidity meter, DO meter. Kel Plus for soil analysis.

Professional achievement:

1. No. of Publication: 4 (Four)

National Journal: 1 (one)

Conference Publication: 3 (three)

2. No. of Workshop participated: 3 (three)

3. No. of Conference/seminar/symposium attended: 15 (fifteen)

Details of National publications:

1. D. Datta, **N. Dey sarkar**, A. Deb Sarkar, A. Bandopadhyay “Adsorptive Removal of Phenol Utilizing Fly Ash.” Journal of The Institution of Engineers (India), vol89, 2008, p-10

Details of Conference publication:

2. Tirtha Bannerjee, **Nayna Datta**, Anupam Deb Sarkar, Joydeep Mukherjee, Shibnath Chakrabarty & Amitava Gangopadhyay. “Cleaner Production Strategies For Small Scale Rural slaughter houses-A Case Study.” Integrated Water And Wastewater Management, 2008, NCIWWM\34\11\12
3. **Nayna Datta**, Anupam Deb Sarkar, Joydeep Mukherjee. “Utilization of Waste Blood For Preparation of Blood Meal And Soil Conditioner-A Solution To Slaughter House Waste Problem. “People Technology Congress, 2009, p315-3203.
4. S. Sarkar, M. armugam, A. Mitra, A. Pramanik, **N. Datta** and J. Mukherjee. “Microbial Ecology & Bioechnology in the Sundarbans.” Life & Work of Sir J.C. Bose In The Perspective of Modern Science & Technology”, 2009, p44

Details of Workshop participated:

1. Workshop on "Remote Sensing –Theory & Applications" under the auspices of "Equip-networking programme" held at Amitava Dey Memorial hall of Jadavpur University 4th-6th January, 2007
2. University on 24th JUNE, 2008. 5. Workshop on "E- waste Management from Indian Perspective" organized jointly by FOSET, Jadavpur Sub Centre and Department of civil Engineering, Jadavpur University in collaboration with West Bengal Electronics Industry Development Corporation Limited (WEBEL) at K.P. Basu Memorial Hall Jadavpur.
3. Workshop on Unite to Combat climate change organized jointly by National Institute of Teachers' Training and Research, Kolkata Ministry of government of India at NTTTR, Salt lake on 4th June, 2009.

Details of Conference/seminar/synposium attended:

1. Seminar on "Conservation of Environment with special reference to Sundarbans" organized by I DREAM in collaboration with Asutosh college held at Asutosh college, Kolkata-700026 on 29th November, 2003.
2. The all India seminar on "Water of Wastewater Management" held on 26th August, 2006 at Institute of chemical engineers, Jadavpur University campus, Kol-32.
3. Seminar on the occasion of World Environment Day at Jadavpur University on June 5th, 2008.
4. National Conference on Integrated Water and wastewater management held on 20th-22nd November, 2008 at Dr. Triguna Sen Auditorium, Jadavpur University, Kolkata, India.
5. Seminar on the occasion of World Environmental Day at Jadavpur University on 5th June, 2009.
6. National Conference on "Life and works of Sir J.C Bose in the perspective of Modern Science and Technology" organized by Faculty Council of Science, Jadavpur University, Kolkata held on March 20-21, 2009.
7. One day seminar on "Cybercrime in the 21st century in India", organized by Department of Sociology in Women Christian college in collaboration with centre for cyber victim counseling held in Kolkata on 28th November, 2014.
8. One day seminar on "Challenges of education in India in the 21st century", organized by Department of Education in Women Christian College in collaboration with all India association for educational research held in Kolkata on 9th March, 2015.
9. One day seminar on "Water: A threatened social resource of the century" organized by department of Geography in Women's College in collaboration with Institute of Environmental Studies and Wetland Management, Department of Environment, Govt. of West Bengal held in Kolkata on 9th October, 2015.

10. One day seminar on “Exploring Eurasia: Traditions and Prospects” organized by Department of History in Women’s Christian College held in Kolkata on 11 th November, 2016.
11. One day seminar on Women violence and Rights organized by Women’s Study Cell, Women’s Christian College sponsored by United board of Christian Higher Education in Asia held on 10 th March, 2017.
12. One day International Symposium on Perspectives in Environmental Health: From Emergence to Emancipation” held in Deshbandhu College for Girls, Kolkata on 17 th December, 2019.
13. One day International webinar on climate change and Urban Environment: Patterns Externalities and Mitigation” organized by Department of Geography, Women’s Christian College, Kolkata, India held on 11th September, 2020.
14. One day seminar on Gandhian Liberalism, organized the Department of History, in collaboration with IQAC, Women’s Christian College, Kolkata on 16 th October 2020.
15. One day webinar on ‘Women’s in History’ organized by the Department of History & Team IQAC, Women’s Christian College Kolkata in collaboration with Netaji Institute for Asian Studies held on 12th December, 2020.
 16. A paper presentation in a webinar held on ' The impact of climate change on our Ecosystem' on 22nd July, 2022.
- 17..Participation of the awareness program and Capacity Building Training on 'Effective implementation of E-Waste Management Rules' jointly organised by WBPCB and WEBEL(WBEIDC) at Women's Christian College.on 20 th March, 2023.
- 18..Professional Development course for faculty members in association with distance and digital Education and ICT Education multimedia Research Cells Centre, St. Xavier's College, Kolkata dated on 27th March, 2023..
19. Professional Development Program organized by Women's Christian College for both teaching and non-teaching staff members on 26th May, 2023.
20. Faculty Development Programme on Research Methodology organized Women's Christian College in 1st June, 2023 lectured by Dr. Avijit Guha.
21. One day AI Tools workshop conducted online on 25 th June ,2023
22. E-Waste collection drive organized by Ecoclub of Women's Christian College and a special lecture on E- Waste Management delivered by Dr. Anupam Deb Sarkar on 27th June, 2023.
23. A special Lecture on "Bhopal Gas disaster" in occasion of National Pollution Control Day organized by Eco Club in Women's Christian College on 2nd December, 2023.
24. Participation in Sir Radhanath Sikdar Smarak Vigyan Mela by EcoClub of W.C.C on 20-22nd January, 2024.

25. Participation in Meghnad Saha Vigyan Mela by Eco Club Of Women's Christian College on 30-4th February, 2024.

26. Seminar on " Investing Clean Air" organized by Ecoclub in Women's Christian College in occasion of National Pollution Control Day in collaboration with Paschimbanga Vigyan Mancha on 2nd December, 2024.

27. Participaton in long interactive session on behalf of Student's Week Programme as anchor in Women's Christian College on 7th January, 2025.

28. A One Day Workshop on " Terrarium making workshop and Seminars' on occasion of Earth Day Celebration organized by Ecoclub in collaboration with Ripples in Ripples- Nature inspired studio on 26 th April, 2025.

29. A Special lecture on " Chernobyl Disaster and Bhopal Gas Disaster" organized on occasion of National Pollution Control Day organized by EcoClub in Women' s Christian College on 2nd December, 2025.

30. One day Workshop on " Research Publications and Innovations: Contemporary practices and global academic standards" Organized by Geographic Department in collaboration with Internal Quality Assurance Cell (IQAC) Research Cell on 2nd March , 2026.