

Nazma Khatun

Contact: prof.nazma.khatun@gmail.com

Qualification: Ph.D.

Designation: Assistant Professor in Conservation Biology

Teaching Experience (in years): UG: 6 Years PG: 7 Years

Research Experience (in years): 7 Years

Date of Joining Present Institution: 28/01/2019

Institutions/Companies Previously Served: Nil



Name of Institution/Company	Designation	Tenure	
		From (DD-MM-YYYY)	To (DD-MM-YYYY)

Examinations cleared: NET-CSIR, SET, GATE, WBPSC, WBCSC

Specialization/Research Interest:

- Aquatic Ecology
- Freshwater Biodiversity
- Phytoplankton Ecology and Diversity
- Limnology
- Water Quality Assessment
- Wetland and Pit Lake Ecosystems
- Environmental Monitoring and Pollution Assessment
- Phytoremediation using Aquatic Macrophytes
- Biodiversity Conservation and Ecosystem Restoration

Awards & Recognitions

Nil

Courses taught

	M.Sc	M.Sc	M.Sc	M.Sc	M.Sc	UG
Semester-I	MSCCONBC10 1 Biogeography and Biological Resources I	MSCCONBC10 4 Ecological Principles				
Semester-II	MSCCONBC20 3 Biodiversity Conservation I	MSCCONBC20 5 Biodiversity Conservation (Practical)				VAC Environmental Studies
Semester-III	MSCCONBMJE 303	MSCCONBMJE 304	MSCCONBMJE 307	MSCCONBMJE 308	MSCCONBMIE 301	

	Wetland Conservation I	Wetland Conservation II (Practical)	Marine Bioresources I	Marine Bioresources II (Practical)	Conservation Law and Management	
Semester-IV	MSCCONBC402 Biostatistics and Bioinstrumentation	MSCCONBMJE401 Forest Wealth-III	MSCCONBMJE402 Forest wealth-IV (Practical)	MSCCONBMJE403 Wetland Conservation III	MSCCONBMJE404 Wetland Conservation-IV (Practical)	

Online Mode of Teaching

- Lecture delivery through a dedicated YouTube channel.
- Online lectures and PowerPoint presentations using TeamLink.
- Learning Management System (LMS)-based teaching through Gnomio (Moodle LMS), including course materials, assignments, quizzes, and announcements.
- Study materials, assignments, and notices shared through Google Classroom and email.
- Interactive doubt-clearing sessions through audio and video conferencing.
- Discussion of course topics and academic updates through WhatsApp groups.

Publications

- Khatun, N., & Palit, D. (2024). Wetland-based agroforestry: Carbon management toward sustainability. In M. K. Jhariya, R. S. Meena, A. Banerjee, S. Kumar, & A. Raj (Eds.), *Agroforestry for carbon and ecosystem management* (Chapter 13, pp. 173–190). Academic Press.
- Khatun N and Palit D (2025), Assessment of Phytoplankton Diversity and its Role in Biomonitoring Water Quality of Pitlakes in the Raniganj Coalfield, India. *ESA* 4(1): 247-256.
- Khatun, N., & Palit, D. (2026). Evaluation of water quality and physicochemical parameters of pitlakes in the Raniganj coalfield for potential reuse in domestic, irrigation, and aquatic life support. *Journal of Research in Environmental and Earth Sciences*, 12(4), 20–31

Guidance of Ph.D Scholars

Nil

Sponsored Research projects

Nil

Guidance of M.Sc. Projects

- Shyamali Dutta (2019–2020, Durgapur Government College), Ethnobotanical Study of Medicinal Plants of Different Parts of Paschim Bardhaman District.
- Chandrani Ghosh (2020–2021, Durgapur Government College), Assessment of Avifaunal Diversity and Its Habitat Association in Different Microhabitats of Durgapur During Winter and Spring Season.
- Subhajit Mondal (2021–2022, Durgapur Government College), Evaluation of Water Quality and Plankton Diversity of Two Lentic Waterbodies.
- Shreya Kesh (2022–2023, Durgapur Government College), Study of Economically Important Fish Diversity, Water Quality and Livelihood Status of Fishermen of the Damodar River. Supriti Ghosh (2023–2024, Durgapur Government College), A Review on the Plankton Study in the Pitlakes of the World with Special Emphasis to India.
- Sneha Nandi (2024–2025, Durgapur Government College), Comparative Assessment of eBird Citizen Science Data and Structured Field Surveys for Monitoring Winter Migratory Birds at Bakreshwar Reservoir, Birbhum, West Bengal.

Invited Lectures

- Invited Talk: "*Preserving Biodiversity: A Journey into Wildlife Management & Conservation*" Organized by the Department of Zoology in association with the Departments of Botany and Geography, Karimpur Pannadevi College (Affiliated to the University of Kalyani), on 16 December 2023.

Paper Presentation in seminar/conference/symposium/workshop/discussion meeting

- Assemblages of Phytoplankton in the Pit-Lakes of Raniganj Coalfield, West Bengal, India. Presented at the International Multidisciplinary Conference on Climate Change Impacts on Agriculture, Environment and Sustainability, held from 11–13 February 2022, organized by the International Academy of Science and Research (IASR), Gurukul Ectutech Education and Research Foundation, and Scientific and Environmental Research Institute (SERI).
- Assessment of Water Quality for Evaluating Potential Uses of Pitlake Ecosystem in Raniganj Coalfield Area, India. Presented at the National Seminar on "Wetland Conservation and Bio-Resource Management: Benefiting Man and Nature", held on 13 February 2024, organized by Bankura Sammilani College in collaboration with the East Kolkata Wetlands Management Authority.
- Ecological Assessment of Phytoplankton Community and Its Role in Water Quality Monitoring in Pitlake Ecosystem in Raniganj Coalfield, India. Presented at the Two-Day International Conference on Living in Harmony: Celebrating Biodiversity for Sustainable Future, held on 21–22 May 2025, organized by the Department of Conservation Biology under the Institution's Innovation Council, Durgapur Government College.
- Monitoring Water Quality Using Phytoplankton: An Ecological Study of Pitlake Ecosystems in the Raniganj Coalfield. Presented at the 4th International Conference on

Environment, Forestry and Sustainable Agriculture (4th ICEFSA 2025), held on 26–27 December 2025, organized by the International Academy of Science and Research (IASR), West Bengal, in association with Government Degree College, Bhaderwah, Jammu & Kashmir UT, in collaboration with the Scientific and Environmental Research Institute (SERI), Kolkata and the Confederation of Indian Universities (CIU), New Delhi.

Participation in faculty development programmes

- Five-Day Faculty Development Programme on "Good Laboratory Practices", organized by the Department of Life Sciences, School of Basic Sciences and Research, Sharda University, Greater Noida, Uttar Pradesh, from 8 February 2021 to 12 February 2021.
- UGC Sponsored Online Faculty Induction Programme (FIP). Organized by the UGC Human Resource Development Centre (HRDC), Aligarh Muslim University, Aligarh, from 23 February 2021 to 31 March 2021.
- UGC Sponsored Online Interdisciplinary Subject Refresher Course in Environmental Studies. Organized by the UGC Human Resource Development Centre (HRDC), Aligarh Muslim University, Aligarh, from 27 September 2022 to 11 October 2022.
- Faculty Development Programme on "MOOCs, E-Content and Open Educational Resources (Design, Develop and Deliver)", sponsored under the DBT STAR College Scheme, organized by the Departments of Botany, Chemistry, Geology, Mathematics, Physics and Zoology, Durgapur Government College, from 8–14 December 2023.
- NEP (2020) Orientation & Sensitization Programme (8 Days). Organized by the UGC Malaviya Mission Teacher Training Centre (MMTTC), Aligarh Muslim University, Aligarh, under the Malaviya Mission Teacher Training Programme (MM-TTP), UGC, from 20 June 2024 to 28 June 2024.

Organization of events (Durgapur Government College)

- DSTBT-GoWB sponsored National Seminar "Contemporary Era of Sciences: Biological and Chemical Interface" organized by the Departments of Botany, Chemistry, Conservation Biology and Zoology, Durgapur Government College on March 26-27, 2019 (*Member, Registration Sub Committee*)
- Seminar for the observance of the "Celebration of Bi-Centenary Birth Anniversary of Pandit Iswar Chandra Vidyasagar" at Durgapur Government College (Nodal College of Paschim Bardhaman) on 26th September 2019 (*member of the Organizing Committee*)
- One day National Seminar on "Modern Era of Bio-Sciences: Lab To Land" Commemorating Golden Jubilee (50 years) Celebration of Durgapur Government College Organized by Departments of Conservation Biology and Zoology Durgapur Government College on December 5, 2019 (*member of the Organizing Committee*)
- Inter- College Quiz Competition on "Battle of the Brain" to mark Golden Jubilee Celebration organized by Durgapur Government College on 27th November, 2019 (*member and quiz master of the Organizing Committee*)
- Closing Ceremony of the "Golden Jubilee Celebration" of the Durgapur Government College on 14th January 2020 (*member of the Organizing Committee*)
- Webinar on "Necessity of Biodiversity Conservation: Relevance to Modern World" organized by the Department of Conservation Biology, Durgapur Government College on 27th May,

2020 (*member of the Organizing Committee*)

- National Level E-Poster competition in COVID-19 lockdown on "*March towards better future with clean environment*" jointly Organized by Internal Quality Assurance Cell (IQAC) and P.G. Department of Conservation Biology, Durgapur Government College and Durgapur Wildlife Information & Nature Guide Society (WINGS) on 5-12 June, 2020 (*member of the Organizing Committee*)
- One-Day Webinar on "Necessity of Biodiversity Conservation: Relevance to Modern World", organized by the Department of Conservation Biology, Durgapur Government College, on 27 May 2020, commemorating the International Day of Biological Diversity. (*member of the organizing committee*).
- Special E-Lecture on "Fish Diversity and Conservation", jointly organized by the Internal Quality Assurance Cell (IQAC) and P.G. Department of Conservation Biology, Durgapur Government College, on 31 July 2021. (*Member of the Organizing Committee*).
- Six-Day e-Workshop on "Statistics and Geospatial Techniques in Biology", jointly organized by the Department of Conservation Biology and Internal Quality Assurance Cell (IQAC), Durgapur Government College, from 17-22 January 2022. (*Member of the Organizing Committee*).
- One-Day National Level Webinar Cum Photography Competition on "Towards Sustainable Development: Connecting lives through interactions and lenses", jointly organized by the Department of Botany, P.G. Department of Conservation Biology, Department of Zoology, and the Internal Quality Assurance Cell (IQAC), Durgapur Government College, on 22 May 2022. (*Member of the Organizing Committee*).
- One-Day Workshop on "R Statistical Software: Basic Knowledge", jointly organized by the P.G. Department of Conservation Biology and the Internal Quality Assurance Cell (IQAC), Durgapur Government College, on 19 March 2024. (*Member of the Organizing Committee*).
- Special Lecture on "Wildlife Conservation Issues in North East India: Dampa Tiger Reserve as a Case Study", jointly organized by the Department of Conservation Biology in collaboration with the College Campus Environment Sub-Committee and the Internal Quality Assurance Cell (IQAC), Durgapur Government College, on 22 April 2024. (*Member of the Organizing Committee*).
- Consortium cum Poster Competition on "Biodiversity Blueprint: Uniting for Earth's Tapestry", jointly organized by the P.G. Department of Conservation Biology and the Internal Quality Assurance Cell (IQAC), Durgapur Government College, on 22 May 2024. (*Member of the Organizing Committee*).
- Online Hands-on Training on "Backyard Biodiversity - Click While You Walk", organized by the College Campus Environmental Sub-Committee in association with the Departments of Botany, Conservation Biology, Zoology, and the Internal Quality Assurance Cell (IQAC), Durgapur Government College, on 6 May 2024. (*Member of the Organizing Committee*).
- Seminar cum Interactive Session on "Ethnomedicine: Relevance to Modern World", organized by the Department of Conservation Biology and the Internal Quality Assurance Cell (IQAC), Durgapur Government College, under the NDLI Club (National Digital Library of India, IIT Kharagpur), on 18 May 2024.

Participation in committees of Durgapur Government College since 2017

- COVID-19 Grievance Redressal Cell
- College E-Prospectus and UG Admission Cell
- Central Instrumentation Facility

- Cultural Sub-Committee
- UG Examination Sub-Committee
- Girls' Common Room Sub-Committee
- Anti-Ragging Squad
- Girls' Hostel Committee
- Tabulation Sub-Committee
- Annual Sports Meet Organizing Committee
- Students' Health, Welfare and Psychological Counselling Cell
- College Campus Environment Sub-Committee