



**Dr. Abhijit
Mitra**

— Curriculum
Vitae
2024

M.Sc.
(Gold Medalist)
Educationist
Researcher
Writer

STUDENT ATTENTION

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Publications

1. General Information



Dr. Abhijit Mitra

M.Sc.(Gold Medalist)

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- **Date of Birth** 4th October, 1962
- **Passport No.** T3362494
- **Citizenship** Indian
- **Present position**
 - Director, Research Techno India University, West Bengal Sat Lake city, Sector V, Kolkata 700 091
 - Member, Research Advisory Board The West Bengal National University of Juridical Sciences
 - Faculty Member, Department of Marine Science, Calcutta University

At a glance in Research Gate (for research Interest and publications)

<https://www.researchgate.net/profile/Abhijit-Mitra-4>

At a glance in LinkedIn

<https://www.linkedin.com/in/abhijit-mitra-20750056/>

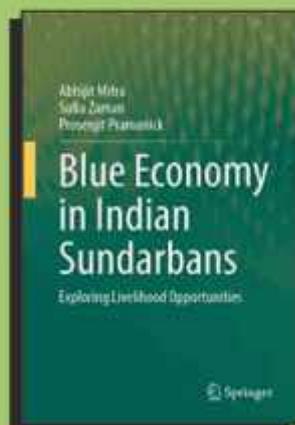
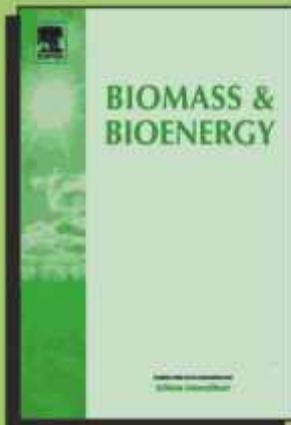
ORCID iD

0000-0002-1323-803X

2. Academic Qualification

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- Secured **1st division** in Secondary School Examination in 1980.
 - Secured **1st division** in All India Senior School Certificate Examination (in Science stream) in 1980.
 - Secured **Hons.** in Zoology (with Chemistry and Botany as Pass subjects and English as Additional subject) in 1983 from the University of Calcutta.
 - Secured **1st class** in M.Sc. (Marine Science) in 1985 from the University of Calcutta and placed in **1st position** in order of merit. Recipient of **Gold Medal for securing the topmost position**.
 - Qualified the **National Educational Test (NET)**, Master's level conducted by the University Grants Commission (UGC) for carrying out the Ph.D. research programme in the University of Calcutta.
 - Received **Ph.D. (Science)** degree in 1994 from the University of Calcutta as **NET qualified** candidate.
 - Associated with the **Indian Association for the Cultivation of Science (IACS)** as honorary **Post Doctoral Fellow** during 1998–2005.
 - Published **714** scientific papers and **62** books on biodiversity, coastal pollution, ocean resources, climate change, blue economy *etc.*
 - Supervised **56** PhD students in the domains of biodiversity, climate science, carbon sequestration, coastal pollution, alternative livelihoods, fishery, coastal microbiology, blue economy *etc.*

3. Research activities and Field experience



- **35+ years research experience** in the field of Marine Biology, Ecology, Marine/Estuarine pollution, Mangrove Forest biodiversity, Marine microbiology, Climate Change, Blue Economy and Aquaculture and published **714 scientific papers**, **62 books**, and supervised **56 PhD students**.
- Profound field experience in working in and around Sundarbans Tiger Reserve (India) and the adjoining Mangrove area as advisor to the Forest Department, Govt. of West Bengal and WWF-India during 2000.
- Experience in working in the hilly terrains of North Bengal (India) as a Senior Programme Officer of WWF-India (Eastern region).
- Experience in conducting work on monitoring and characterization of industrial wastes, oil and grease level and mangrove biodiversity in the port-cum-industrial belt of Haldia, W.B., India.
- Experience in working in the coastal zones of West Bengal, Odisha and Mumbai as parts of the Environmental Projects and consultancy jobs.
- Profound experience in working in the Arabian Sea as EIA consultant for initiating Fish landing station on behalf of Fisheries Department, Govt. of West Bengal.
- Regularly conducting field visits to estuaries and coastal areas adjacent to Bay of Bengal with Postgraduate students of Marine Science/Oceanography and Ph.D. scholars.
- Initiated edible oyster culture programme in Indian Sundarbans (Western Sector) in 2006 jointly with Fisheries Department, Govt. of West Bengal.
- Extensively covered the territorial waters of Indian Sundarbans to monitor shark diversity jointly with Forest Department, Govt. of West Bengal.
- Successfully completed **19 projects** and **18 consultancies** on mangrove biodiversity, alternative livelihood, carbon sequestration with funding from State and Central Governments.
- Served as consultant to TATA STEEL project at Kalinganagar, Odisha in the area of plantation, floral biodiversity, and carbon sequestration by endemic floral species during 2014-15, and at TATA MINES through TECORFIN CONSULTANTS during 2018-19.
- Developed **Carbon ID card of dominant trees in Konnagar Municipality**, West Bengal (India) with an attempt to evaluate the carbon storage potential of urban trees and mitigate the local level carbon dioxide rise.
- Successfully completed **Carbon Mapping Projects** at **The West Bengal National University of Juridical Sciences, Kingston Educational Institute, and several academic institutes** during 2020 – 2021.
- Monitored the CO₂ level in and around the megacity of Kolkata along with the biodiversity status during the COVID – 19 Lockdown period published a book (Publishing House: Springer) entitled "...Impact of COVID – 19 Lockdown on Environmental Health...".
- Initiated the programme on **BLUE ECONOMY** at Techno India University, West Bengal during 2021 and published 4 reference books (1 from Springer Publishing House) on the subject.
- Successfully completed **Carbon Sequestration Projects by plantations of South Bengal Forest** under West Bengal Forest Department, Govt. of West Bengal (India) during 2022.
- Successfully completed consultancy on **Carbon Sequestration by Plant (Floral) Species in and around the Haldia Energy Limited, a subsidiary of CESC (India)** during 2023 & 2024
- Successfully completed consultancy on **MONITORING OF CARBON SEQUESTRATION BY MAJOR PRODUCER COMMUNITIES WITHIN BUDGE BUDGE GENERATING STATION** during 2023.
- Successfully completed Certificate Course on **Climate Change and Sustainable Development** as Coordinator organized by **Environment and Heritage Department, Kolkata Municipal Corporation (KMC), Government of West Bengal (India)** during 2024.

4. Publications (At a glance)

A) Published about **714 Scientific papers** in various National and International journals (vide **Annexure I** for details) in the following areas:

- Biodiversity, Environment and Ecology**
- Coastal Pollution**
- Aquaculture and Fisheries Management**
- Marine/Estuarine Microbiology**
- Mangrove Ecosystem and conservation**
- Climate Change and Carbon Credit**
- Alternative livelihood**
- Blue Economy**

B) Published **62 books** (Textbook and Reference book) and several contributory chapters mainly for graduate and postgraduate level students as tabulated below:

S. No.	Year	Name of the Book/chapters	Editor	Publisher
1.	1997	Advances in Environmental Science (3 Chapters)	C.S.P Iyer	Educational Book Publishers and Distributors
2.	1998	Living Resources of India's EEZ (2 Chapters)	S.Z. Qasim and G.S. Roonwal	Omega Scientific Publisher
3.	2000	Foundation of Environmental Science	----	Narendra Publishing House
4.	2000	Environment-Today and Tomorrow	----	Srima Media Publications
5.	2000	The Saline Microfuel	----	Srima Media Publications
6.	2000	The Northwestern Bay of Bengal and deltaic Sundarbans	Prof. Charles Sheppard, University of Warwick, Coventry, U.K.	Elsevier Science
7.	2002	Marine Ecosystem - A Field Guide	Prof. Amalesh Choudhury	P.M. Publishing Company
8.	2002	The Oscillating Mangrove Ecosystem and the Indian Sundarbans	Shakti Banerjee & Farida Tampal	World Wide Fund for Nature – India (WWF), WBSO
9.	2004	Introduction to Marine Plankton	----	Daya Publishing House, New Delhi
10.	2004	Marine Microbiology	----	Narendra Publishing House, New Delhi
11.	2004	Ecological Profile of Indian Sundarbans: Pelagic Primary Producer Community	Shakti Banerjee & Farida Tampal	World Wide Fund for Nature – India (WWF), WBSO
12.	2004	The Other Face of Mangroves	----	Department of Environment, Govt. of West Bengal

4. Publications (At a glance)

S. No.	Year	Name of the Book/chapters	Editor	Publisher
13.	2004	Sadharan Bigyan (for Secondary level)	----	Sishu Sahitya, Kolkata
14.	2004	Jeevan Bigyan (for Secondary level)	----	Sishu Sahitya, Kolkata
15.	2004	Jeevan Bigyan (for Senior Class)	----	Sishu Sahitya, Kolkata
16.	2005	Marine Fish and Fisheries in and around Mangroves of Indian Sundarbans	----	acb publications
17.	2005	Living Resources of the Sea : Focus Indian Sundarbans	Shakti Banerjee	World Wide Fund for Nature – India
18.	2006	Introduction to Marine Phytoplankton	----	Narendra Publishing House, New Delhi
19.	2006	Training Manual on Ecofriendly and Sustainable Fishery	----	World Wide Fund for Nature – India
20.	2006	Mangroves and their associates : Our next door neighbour	----	World Wide Fund for Nature – India
21.	2006	Training Manual on Non-classical uses of Mangrove resources of Indian Sundarbans for alternative livelihood programme	----	World Wide Fund for Nature – India
22.	2007	Frontiers in Biological Oceanography in the Tropics : A case study from the Bay of Bengal	----	Anamaya Publishers, New Delhi
23.	2007	Distribution of sharks in the territorial waters of Indian Sundarbans	----	Department of Forest, Govt. of West Bengal
24.	2013	Sensitivity of Mangrove Ecosystem to Changing Climate	----	Springer
25.	2013	Water insecurity : A social dilemma (3 chapters)	----	Emerald Books (Volume 13)
26.	2014	Carbon sequestration by coastal floral community : A ground zero observation on blue carbon	----	The Energy and Resources Institute (TERI)
27.	2015	Blue carbon reservoir of the blue planet	----	Springer
28.	2016	Basics of marine and estuarine ecology	----	Springer
29.	2016	How to study stored carbon in Mangroves	----	CSIR - NISCAIR

4. Publications (At a glance)

S. No.	Year	Name of the Book/chapters	Editor	Publisher
30.	2016	Seaweed Resource Utilization : An Adaptation to Climate Change	----	CSIR - NISCAIR
31.	2017	Environmental Coast guards : Understanding Mangrove Ecosystem and Carbon Sequestration	----	CSIR - NISCAIR
32.	2017	Carbon Utilization : Applications for the Energy Industry	----	Springer
33.	2017	Basics of Environmental Science	----	New Central Book Agency (P) Ltd.
34.	2017	Recent Developments in Mangrove Research	----	Hindustan Publishing Corporation
35.	2018	Estuarine Pollution in the Lower Gangetic Delta	----	Springer
36.	2018	Environmental Contamination Remediation and Management (Chapter Contribution)	----	Springer
37.	2019	Mangrove Forests in India : Exploring Ecosystem Services	----	Springer
38.	2019	Environment for All	----	University Prakashan, Agra (India)
39.	2019	Mangroves of the Gangetic delta	----	Kindle
40.	2019	Windows of Environment	----	Kindle
41.	2020	Environmental Science : A Ground Zero Observation on Indian Sub-continent	----	Springer
42.	2020	Natural Health Care Services : Exploring Medicinal Values of Plants	----	Kindle
43.	2020	Natural Resources and their Ecosystem Services	----	H.S.R.A Publications, Bangalore (India)
44.	2021	COVID-19 and Emerging Environmental Trends	----	CRC Press Taylor & Francis Group
45.	2021	Mangroves of Indian Sundarbans as Sources of Alternative Livelihoods	----	New Millennium Graphics Publications
46.	2021	Blue Economy : A Road Map for the Future Planet	----	New Millennium Graphics Publications

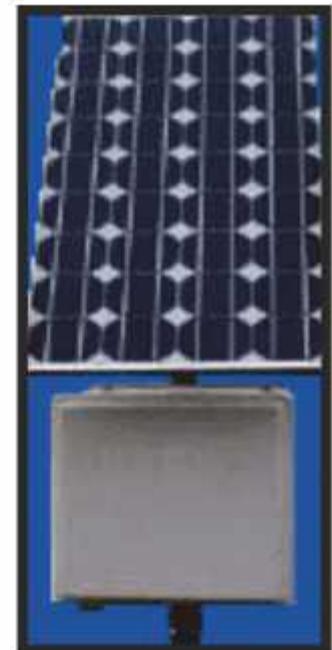
4. Publications (At a glance)

S. No.	Year	Name of the Book/chapters	Editor	Publisher
47.	2021	Multidimensional Approaches to Impacts of Changing Environment on Human Health	----	CRC Press Taylor & Francis Group
48.	2021	Ocean and Climate for the Beginners	----	Techno India University, West Bengal
49.	2021	A, B, C of Environment	----	Konnagar Municipality, Konnagar, Hooghly 712235, West Bengal (India)
50.	2021	Blue Economy : A Road Map for the Future Planet	----	New Millennium Graphics Publications
51.	2021	Hydroponics : A Sustainable Tool for Poverty Alleviation	----	New Millennium Graphics Publications
52.	2021	Blue Economy : A New Dimension to Explore Marine Resources	----	New Millennium Graphics Publications
53.	2021	Estuarine Acidification : Exploring the Situation of Mangrove Dominated Indian Sundarban Estuaries	----	Springer
54.	2021	Blue Economy : A Goal to Achieve Sustainable Development	----	Techno India University, Kolkata, West Bengal
55.	2022	Natural Resources and their Ecosystem Services Vol. II	----	H.S.R.A Publications, Bangalore (India)
56.	2022	Blue Economy in Indian Sundarbans : Exploring Livelihood Opportunities	----	Springer
57.	2023	Impact of COVID-19 Lockdown on Environmental Health : Exploring the Situation of the Lower Gangetic Delta	----	Springer
58.	2023	Climate Resilient livelihoods in Indian Sundarban delta : Scopes and Challenges	----	Springer
59.	2024	Potential and Drawbacks of Mangrove Carbon Trading in the Lower Gangetic Delta	----	Springer



5. Previous Services

- Served **Calcutta Port Trust (CPT)** as a **Senior Research Fellow** to monitor the Mangrove Biodiversity in the Hooghly estuarine stretch preferably in and around the Nayachar Island.
- Served as a **Research Scientist** in a **Ministry of Environment & Forests Project, Govt. of India** to monitor the biodiversity loss due to wild harvest of prawn seeds in the Sundarbans Biosphere Reserve (Name of the Project: *Impact of mass collection of prawn seeds in mangrove ecosystem of Sundarbans Biosphere Reserve*).
- Served as a **Senior Programme Officer** in the **World Wide Fund For Nature – India (WWF-India)**, Eastern Region.
- Served as a **Faculty-Adjunct** of Biological Oceanography in the **West Bengal University of Animal and Fishery Science**.



6. Awards & Honours received



- ❑ Secured **1st position** in first class in order of merit in M.Sc. (Marine Science examination under Calcutta University) in 1985 and received Gold Medal.
- ❑ Qualified the **National Educational Test (NET)** conducted by the University Grants Commission, Govt. of India and received a fellowship of Rs. 1,36,620.00 for five years to support the Ph.D. programme in the University of Calcutta.
- ❑ Received funding from Calcutta Port Trust to **carry out a research programme** on the Impact of pollution on mangrove biodiversity in and around Nayachar island in the Hooghly estuarine stretch.
- ❑ Received **cash awards** from the Journal of Indian Ocean Studies (Chairman: The then President of India) and Indian Ports Association for contribution in the field of coastal pollution (oil and heavy metal pollution).
- ❑ Elected as a **Fellow of West Bengal Academy of Science and Technology** in 2003 and selected as **Convener** of Environmental Science section during 2011-12.
- ❑ Invited as a **plenary speaker** in the National Symposium on "Microbes in Bioremediation for Ecofriendly Environment in the new Millennium" on 6th and 7th January 2000 at the CAS in Botany, University of Madras, Chennai, India.
- ❑ Invited as a **Chairperson to chair a session entitled "ecological role of animals"** in the International Conference on Mangrove Macrobenthos held at **Mombasa, Kenya** from 7th to 11th September 2000 and received a **European Union Grant of US \$ 1200**.
- ❑ Invited to act as a **Co-editor** of Indian Journal of Environment of Eco-planning.
- ❑ Selected as the **IUCN** member of **Commission on Ecosystem Management (CEM)**.
- ❑ Invited as speaker and fellow in the knowledge exchange programme at **University of Massachusetts at Dartmouth, USA** during 2008.
- ❑ Performed several individual consultancy jobs and earned **INR. 1,14,500.00** through **CUIIPP** on behalf of the **University of Calcutta**.
- ❑ Received **INSA-Visiting Fellowship Award** from **INDIAN NATIONAL SCIENCE ACADEMY** in 2012.
- ❑ Received **Reviewer certificate** from **ELSEVIER's** Journal of Marine systems and Ocean and Coastal Management.
- ❑ Invited as a **plenary speaker** in the International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management- Transformation of the Global Economy', 13- 14 September 2019, St. Xavier's College.
- ❑ Invited to serve as Member of Research Advisory Board of The West Bengal National University of Juridical Sciences.
- ❑ Invited as a **plenary speaker** in the Biennial Conference & AGM on Sustainable Development Goals, Blue Economy and Climate Change on 7th December, 2019 at Dhaka, Bangladesh organized by the **Zoological Society of Bangladesh**.
- ❑ Received the **Felicitation** from the former Hon'ble Governor of West Bengal for achievements in Scientific field on the 134th Foundation Day of Bengal National Chamber of Commerce and Industry (BCCIN) on 2nd February, 2021.
- ❑ Invited as a **plenary speaker** to deliver lecture on Climate Change in the Institute of Town Planners, India (West Bengal Regional chapter) on 23rd May 2022.
- ❑ Elected as the **Journal Editorial Board Member** under the **Russian Academy of Sciences** during 2023.



7(a). Projects Undertaken

S. No.	Title of the project	Name of the Funding Agency	Duration	Remark
1.	Impact of mass collection of prawn seeds in mangrove ecosystem of Sundarbans Biosphere Reserve	Ministry of Environment and Forest, Govt. of India	3 years (1994 – 1996)	The project was supervised in the capacity of Research Scientist
2.	Impact of oil pollution on candidate flora and fauna of mangrove forests along the Hooghly estuary	Ministry of Environment and Forest, Govt. of India	3 years (1996 – 1998)	The project was supervised in the capacity of Co-Investigator
3.	Study on the problem of depredation by <i>Panthera pardus</i> in North Bengal, India	World Bank through Forest Department	1 year (1998)	The project was supervised in the capacity of Coordinator
4.	Monitoring the water quality and accumulation pattern of heavy metals in mangroves and its associates in coastal West Bengal	Department of Environment, Govt. of West Bengal	3 years (2001 – 2003)	The project was supervised in the capacity of Principal Investigator
5.	Experimental approach towardsecofriendly aquaculture in coastal West Bengal	BOOLEAN LOGIC PVT. LTD.	1 year (2005)	The project was supervised in the capacity of Advisor through CUIIPP
6.	Standardization of oyster culture technology in Indian Sundarbans	WWF-India	2 years (2005-2006)	The project was supervised in the capacity of Advisor through CUIIPP
7.	Utilization of marine biotic resources to control shrimp wastes	BOOLEAN LOGIC PVT. LTD.	1 year (2005)	The project was supervised in the capacity of Advisor through CUIIPP
8.	Trade, environment and rural poverty : A case study of Sundarban in West Bengal	Institute of Economic Growth (IEG), University of Delhi Enclave, North Campus	1 year (2005)	The project was supervised in the capacity of Advisor through CUIIPP
9.	Oyster culture and training of women fisher group on oyster culture	Department of Fisheries, Govt. of West Bengal	3 years (2006- 2009)	The project has been initiated in the capacity of Investigator
10.	Study on the role of mangrove based astaxanthin in shrimp nutrition	University Grants Commission (Major project scheme)	3 years (2007 –2010)	The project has been initiated in the capacity of Principal Investigator

7(a). Projects Undertaken

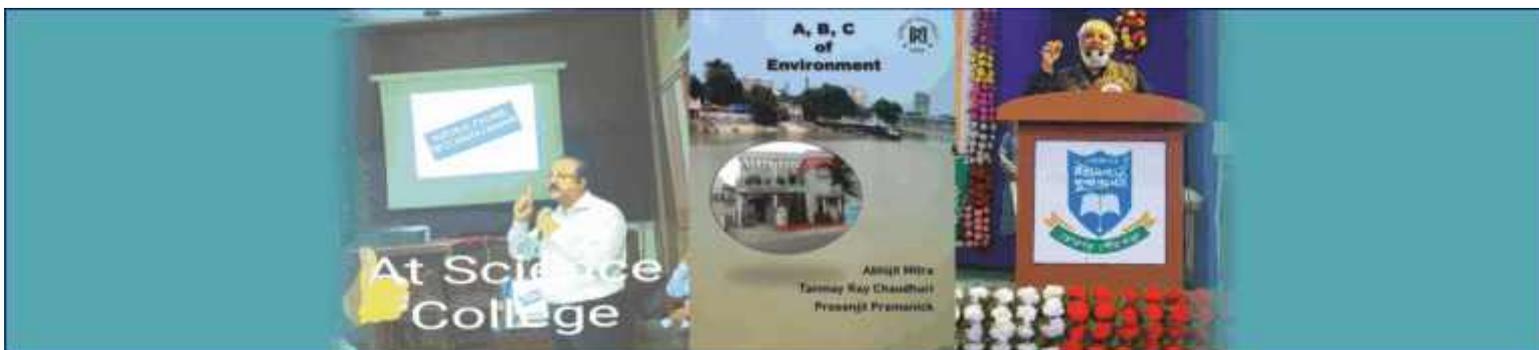
S. No.	Title of the project	Name of the Funding Agency	Duration	Remark
11.	Sustainable utilization of mangrove floral resources for livelihood upgradation in Indian Sundarbans.	Ministry of Environment & Forests (Govt. of India)	3 years (2009 -2012)	The project has been initiated in the capacity of Principal Investigator
12.	Study on the carbon capture and storage by mangrove of Indian Sundarbans	Ministry of Earth Science, Govt. of India	3 years (2009 -2012)	The project has been initiated in the capacity of Principal Investigator
13.	Study on carbon sequestration by phytoplankton community in the mangrove dominated Indian Sundarbans	Department of Forest, Govt. of West Bengal	2 years (2010 - 2012)	The project has been initiated in the capacity of Principal Investigator
14.	Measurement of Plant and Soil Parameters under Soil Vegetation-Carbon Flux (SVF)	National Remote Sensing Centre, Hyderabad	3 years (2011 -2014)	The project has been initiated in the capacity of Principal Investigator
15.	Study of Carbon stock and response of estuarine phytoplankton to iron fertilization	Department of Science & Technology, Govt. of India	3 years (2011 -2014)	The project has been initiated in the capacity of Principal Investigator
16.	Assessment of Carbon Pool in Mangroves of the Hooghly and Matla estuarine complex of Indian Sundarbans	Department of Environment, Govt. of West Bengal	2 years (2012 -2013)	The project has been initiated in the capacity of Principal Investigator
17.	Vulnerability Assessment and development of adaptation strategies for Climate Change impacts with special reference to coasts and island ecosystems of India (VACCIN)	CSIR	2 years (2016 - 2017)	The project has been initiated in the capacity of Principal Investigator for a particular assignment (carbon sequestration and alternative livelihood)
18.	Study of the stored carbon in age-wise plantations in the South Bengal Forest divisions	Department of Forest, Govt. of West Bengal under "Green India Mission"	2022	The project has been initiated in the capacity of Advisor
19.	Quiz Contest Programme on Environment at 16 Boroughs under KMC, Govt. of West Bengal	KMC	2022-23	The project has been initiated in the capacity of Advisor

7 (b). Consultancy Jobs Undertaken

S. No. & Year	Title of the project	Funding agency	Job description
1. (2001)	Mangal conservation workshop at Sagar Island	British Council Division, Kolkata through WWF-India (WBSO)	Build awareness on the importance of mangroves in controlling coastal erosion and also on the multi-various uses of mangroves.
2. (2001)	EIA for setting minor fishing harbour at Kakdwip	Creative Research Group	Ecological assessment for setting up minor fishing harbour at Kakdwip.
3. (2002)	EIA in and around Haldia industrial complex in connection to setting up of ship-wreck yard	ENVIRO CHECK	Hydrological parameter analysis in the Hooghly estuarine stretch.
4. (2003)	<i>Project formulation on conservation and livelihood improvement of Indian Sundarbans</i>	Wetland International through ADB	This is an ADB funded project formulation exercise, in which I was appointed as " <i>Pisciculture specialist</i> " in connection to livelihood improvement of Indian Sundarbans.
5. (2003)	Preanalysis of community based and other fisheries in India for certification (ecolabelling) under the aegis of Marine Stewardship council, U.K.	WWF-India	Assess the environmental damage caused by destructive fishing activities.
6. (2004)	Certificate course on Waste Water Analysis	Good Earth Enviro Care	Coordinator of the course.
7. (2004)	Secondary level text book edition	Sishu Sahitya	Edited and contributed few chapters on Basic Science.
8. (2005)	Experimental approach towards ecofriendly aquaculture in coastal West Bengal	BOOLEAN LOGIC PVT. LTD.	Experiment on the growth of tiger prawn with specially formulated feed in 8 trial ponds at Bali and Chotomollakhali islands in the Indian Sundarbans.
9. (2005)	Trade, environment and rural poverty : A case study of Sundarban in West Bengal	Institute of Economic Growth (IEG), University of Delhi Enclave, North Campus	Evaluation of the impact of tiger prawn culture on biodiversity and ambient environment.
10. (2006 -07)	Preparation of environmental quality map of Sundarbans aquatic phase	University of Massachusetts, USA	Monitoring the primary productivity of coastal waters of Bay of Bengal with particular importance to mangrove dominated Indian Sundarbans.

7 (b). Consultancy Jobs Undertaken

S. No. & Year	Title of the project	Funding agency	Job description
11. (2007-08)	Impact of climate change on mangrove ecosystem of Indian Sundarbans	Nature Environment & Wildlife Society	Monitoring the pulse of climate change through temporal variations of hydrological parameters in the aquatic sub-system of Indian Sundarbans.
12. (2014-15)	Biodiversity monitoring and carbon sequestration assessment by floral community in and around the Kalingnagar Plant of TATA STEEL	TATA STEEL	Served as consultant to TATA STEEL project at Kalinganagar, Odisha in the area of plantation, floral biodiversity and carbon sequestration by endemic floral species
13. (2018-19)	Biodiversity monitoring and carbon sequestration assessment by floral community in and around the mines of TATA STEEL	TECORFIN CONSULTANTS	Monitoring floral biodiversity and carbon sequestration by floral species
14. (2018-19)	Carbon sequestration assessment by floral community in and around the city of Kolkata	THE WEST BENGAL NATIONAL UNIVERSITY OF JURIDICAL SCIENCES	Monitoring carbon sequestration by floral species in and around the city of Kolkata
15 (2020)	Dolphin Survey in the Gangetic Stretch of Sahibganj, Jharkhand	GOOD EARTH ENVIRO CARE	The present study addresses the floral and faunal biodiversity with special reference to dolphin count in the Gangetic stretch of the district of Sahibganj, which lies approximately between 24°2' north and 25°1' north latitude and between 87°5' and 87°4' east longitude in the state of Jharkhand.
16. (2021)	Carbon Mapping at Kingston Educational Institute, Barasat	KINGSTON EDUCATIONAL INSTITUTE, BARASAT	Monitoring stored carbon in dominant tree species, soil and litter in the campus and suggest management action plan to reduce the carbon foot print
17. (2023-24)	Carbon Sequestration by Floral Community in and around the Haldia Energy Limited	CESC	Monitoring plant diversity and carbon sequestration potential of trees, shrubs, herbs, and aquatic plants (both macrophytes and microphytes)
18. (2023-24)	Monitoring of Carbon Sequestration by Major Producer Communities within Budge Budge Generating Station	CESC	Monitoring plant diversity and carbon sequestration potential of trees, shrubs, herbs, and aquatic plants (both macrophytes and microphytes)



8. Seminar/Symposium/Workshop/ Training Course Attended

1. Participated & presented paper in the National Seminar on Estuarine Management held at Trivandrum, India from 4th to 5th June, 1987.
2. Participated in the Seminar-cum-Workshop on "Frontiers of Atmospheric & Oceanic Sciences" held from 8th to 10th December, 1988 at **Calcutta**.
3. Participated & presented paper in the **International Symposium on Marine Pollution** held at **C.A.S in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu, India** from 23rd to 25th January, 1989.
4. Participated in the **Workshop on Mathematical Models in Biology** held under the auspices of **C.S.I.R (New Delhi)** at **Calcutta Mathematical Society, Salt Lake City, Calcutta** from 19th to 24th January, 1990.
5. Participated & presented paper in the **Second Indian Fisheries Forum** held at **Asian Fisheries Society (Indian Branch), Mangalore** from 27th to 31st May, 1990.
6. Successfully completed the condensed course on **Ocean Science & Technology** from the **School of Oceanographic Studies, Jadavpur University** from 12th to 31st August, 1991.
7. Participated & presented paper in the **National Symposium on Zoological Research in relation to Man and Environment** during 1st to 4th March, 1992 at **Calcutta**.
8. Participated as a trainee in the **Workshop on Oil Pollution Management** held at the **Indian Institute of Port Management, Calcutta** during 18th to 19th March, 1993.
9. Participated & presented paper in the **National Convention on Environment of India: Challenges for the 21st Century** held at **Calcutta** during 23rd to 25th November, 1994.
10. Successfully completed the **Indo-British course on the Biological Monitoring of Wetlands** organised by the **British Council Division, Calcutta & the Central Inland Capture Fisheries Research Institute, Barrackpore** from 7th to 21st December, 1994.
11. Participated & presented 3 papers in the **International Conference on Environmental Science** held at **Trivandrum**, during January 8-13, 1996.
12. Delivered an invited talk on the topics "...Sewage, heavy metal & their significance...." at **Waste Water Aquaculture Division of the Central Institute of Fresh water Aquaculture** on 14th May, 1996.
13. Participated & presented two papers at the **Asia Pacific Congress on the Biology of the Environment** held at the **National University of Singapore** from 21st to 24th November, 1999.
14. Attended the National Seminar on Ecofriendly Management of Resources for doubling fish production – Strategies for 21st century at **Central Inland Capture Fisheries Research Institute, Barrackpore** from 22nd to 23rd December 1999.
15. Invited as a plenary speaker in the **National Symposium on Microbes in bioremediation for eco-friendly Environment in the New Millennium** held at **CAS in Botany, University of Madras, Chennai**, India from 6th to 7th January, 2000.
16. Invited to deliver a lecture on the "**Utilization of Mangrove Biotic Resources in Industrial Pollution Control**" at the **Regional Occupational Health Centre (Eastern) under ICMR at Salt Lake City, Calcutta** on the National Technology Day (11th May, 2000).
17. Participated & presented four papers in the **International Conference on Mangrove Macrobenthos** held at **Mombasa, Kenya** during 7th to 11th September, 2000. Also invited as a **Chairperson** in this Conference and received an **European Union Grant of US\$1200**.

8. Seminar/Symposium/Workshop/ Training Course Attended

18. Acted as a Conference Coordinator in the National Conference on **Application of Biotechnology in Marine and Estuarine Environment** organised by the Central Calcutta Science and Culture Organisation for Youth at **Science City, Calcutta** during 18th and 19th November, 2000.
19. Participated & presented paper in the **National Seminar on Protection of the Environment- an Urgent Need** held at **Salt Lake City, Calcutta** on 21st December, 2000.
20. Completed the UGC sponsored **Refresher Course in Zoology** from 8.02.2001 to 28.02.2001 organised by the **Academic Staff College, University of Calcutta**.
21. Participated on behalf of the University of Calcutta in the Science and Culture Expo organised by the Central Calcutta Science and Culture Organisation for Youth from 5th to 12th September, 2001 at **Tallygaunge, Calcutta** and received the honour of **presiding the opening ceremony and conducting the seminars on Environmental Science and Information Technology**.
22. Participated as a **Keynote speaker** in the **National Seminar on Coastal Pollution in the Bay of Bengal** held at **Rotary Sadan, Calcutta** on 9th March, 2002 organised by the Society of Indian Ocean Studies (Calcutta Chapter).
23. Participated as an invited speaker at **Rotary Sadan, Calcutta** in the **National workshop on Conservation and Development of Sundarbans** organised by Nature, Environment and Wild Life Society and Forest Department, Govt. of West Bengal in collaboration with UNDP-India on 20th April, 2002. (Topic: Aquatic Diversity).
24. Participated in a **Marine Conservation Workshop** as a Resource Person at **WWF-India (New Delhi)** during 9-11, March, 2004.
25. Participated as Resource Person in the 14th National Science Camp on **Sustainable Use of Coastal and Marine Resources** during 4-13 October, 2004 at **Digha Science Centre National Science Camp, New Digha, Midnapore, West Bengal**.
26. Participated as a Resource Person in the seminar on the Role of **Indian Army in the Conservation of Wetlands and Globally Endangered Species** during 22-23 November 2004 at **Fort William Auditorium, Kolkata**.
27. Participated as a Resource Person in the **Material Testing Workshop on Stock Assessment Tools- Capacity Building** during 8-12 August, 2005 at Great Eastern Hotel, Kolkata (Sponsored by DFID Fisheries Management Science Programme).
28. Participated as a Resource Person on request of Sundarban Development Board (SDB), Govt. of West Bengal and presented a lecture on the **problems of Sundarbans with special reference to the role of science and innovation in development of the region** for the DFID team members on 23rd August, 2005.
29. Participated in the **State Convention of West Bengal Krishak Samaj** on 2nd April, 2006 at **Digha** and delivered lecture on scientific method of shrimp culture, agriculture in saline belt.
30. Served as an expert in the Radio Counselling Programme of Netaji Subhas Open University at **Akash Vani - All India Radio (AIR)**, Kolkata on 23rd April, 2006.
31. Delivered lecture (on Disaster Management) in the **In-service Course for CBSE teachers** on 9.5.2006 at **Kendriya Vidyalaya Ordnance Factory, Dum Dum, Kolkata, India**.
32. Participated as Invited Speaker in the training and technology sharing programme in the **Directorate of Forests, Govt. of West Bengal** for ecofriendly pisciculture practice in the fringe area of Sundarbans forest during 2006.
33. Participated and presented 2 papers as invited speaker in the **Ferro Alloys National Seminar 2007** on 31st August, 2007 at **Sukinda Chromite Mine Complex, Orissa**.
34. Delivered an invited talk on **Biodiversity** for postgraduate students in the **Department of Zoology, Bethune College, Calcutta** on 29.01.2008.

8. Seminar/Symposium/Workshop/ Training Course Attended

35. Participated and presented paper as invited speaker in the **National Seminar on Sundarbans Ecosystem: Prospects, Threats & Management** organized by Maulana Abul Kalam Azad Institute of Asian Studies, Kolkata in collaboration with Dept. of Marine Science, University of Calcutta on 5th - 7th January, 2008 at Satjelia village of Indian Sundarbans.
36. Participated and presented paper as invited speaker in the **IUCN – MFF Workshop on Conservation & Management of Mangrove Ecosystems in India: Stakeholders Consultation for Assessment of Training & Capacity Building Needs and Design of National Strategy & Action Plan (NSAP)** organized by **GEER Foundation, Gujarat on 12th – 13th February, 2008 at GEER Foundation Complex, Gujarat.**
37. Participated and presented papers in the **National seminar on Environment & Development** organized by West Bengal Academy of Science & Technology on 22nd & 23rd February, 2008 at **CGCRI, Calcutta.**
38. Participated and presented papers in the **Seminar and awareness programme** organized by **Krishnagar Govt. College on 25th & 26th March, 2008 at Krishnagar Govt. College (Nadia District), West Bengal.**
39. Participated as Resource Person in the **Seminar and awareness programme on Climate Change** organized by **Panskura Banamali College** on 26th November, 2008.
40. Participated as an Invited Speaker on Coastal Resources and its conservation in **11th Leadership Course on Environmental Awareness and Wildlife Conservation** during March, 2009 in the **Zoological Survey of India, Kolkata, India.**
41. Invited as a speaker in the **National Integration Youth Leadership and National training Camp at Lucknow on the occasion of 16th All India Student and Youth Festival** during 25– 29th December, 2010.
42. Invited to act as a **Convenor and key note speaker** in the **National Seminar on Impact of Emerging Areas of Science & Technology on the Development of Society** organized by **Central Calcutta Science and Culture Organisation for Youth** during 5th – 6th February, 2011 at Science City, Kolkata, India.
43. Participated as an Invited Speaker on Mangrove Ecosystem and its conservation in **12th Leadership Course on Environmental Awareness and Wildlife Conservation** during March, 2011 in the **Zoological Survey of India, Kolkata, India.**
44. Invited as an invited speaker to deliver a technical lecture at the **workshop on Forests: Nature at our service towards sustainable development** organized by **Vivekananda Institute of Environment and Management**, Kolkata on 3rd June, 2011 at Salt Lake, Kolkata, India.
45. Invited as a speaker in the **OCEAN AT THE SERVICE OF MAMKIND SEMINAR** at **MAX MUELLER BHAVAN (INDO-GERMAN ASSOCIATION, KOLKATA)** on 24th August, 2011.
46. Invited as a speaker in the **International Conference on Mangroves for Coastal Area Management** during 7-10th August, 2011 at **M.S. SWAMINATHAN RESEARCH FOUNDATION, Chennai, India.**
47. Participated as an Invited Speaker in the **SHORT TERM COURSE ON ENVIRONMENTAL GENOMICS AND BIOTECHNOLOGY** during 2nd – 9th December, 2011 at **Indian Institute of Technology, Kharagpur, India.**
48. Participated as an Invited Speaker in the **National Seminar on Biodiversity** during 11th – 12th February, 2012 at **BANGIYO BHUGOL MANCHA, Kolkata, India.**
49. Participated as an Invited Speaker in the **National Seminar on Challenges for Civil Engineering due to environmental degradation** during 19th February, 2012 at **Birbhum Institute of Engineering and Technology**, Suri, Birbhum, India.
50. Participated as an Invited Speaker on Climate Change and Carbon credit during 13th and 14th May, 2009 at **J.R.D TATA TRAINING INSTITUTE of TATA STEEL**, Noamundi, India.

8. Seminar/Symposium/Workshop/ Training Course Attended

51. Served as coordinator and invited speaker in the **Workshop on Training and Capacity Building in Conservation and Management of Trans-Boundary Protected Areas of Sundarbans, India** organized by **SAARC Coastal Zone Management Centre, Male, Maldives, 2012 at Sundarbans, India.**
52. Participated as an Invited Speaker on Phytoplankton diversity in Indian Sundarbans in the **National Seminar on Modern Trends in Microbiology** during 2012 at **St. Xavier's College, Kolkata, India**
53. Participated as an Invited Speaker on Phytoplankton community in the Indian Sundarban estuarine system: A major sink of carbon during 5th December, 2012 **organized by TERI at New Delhi, India.**
54. Participated as an Invited Speaker on Scientific Aspects of Sundarbans during December, 2012 at **Centre for Ocean and Environmental Studies, New Delhi, India.**
55. Participated as an Invited Speaker in a round table dialogue on Environmental Governance in the context of sustainable development in India: The case of coastal and Marine Ecosystems **organized by TERI** during 5th to 7th April, 2013 **at Goa, India.**
56. Delivered an invited talk on the topics "**....Blue carbon reservoir in Sundarban mangroves.....**" in the **International Workshop on Mangrove Conservation in India** during 26th and 27th July, 2013 at **Gandhinagar, Gujarat, India.**
57. Participated in the UGC sponsored National Conference on **Inclusive growth, Business and Environment in India's Emerging Economy** during 6th and 7th September, 2013 at **St. Xavier's College, Kolkata, India.**
58. Invited as a speaker in the **Marine Biotechnology Symposium Emerging Opportunities and Future perspectives** at **Sultan Qaboos University, Muscat, Oman** from 12th to 13th November, 2013.
59. Invited as a speaker in the **National Conferences on Progresses in BioEngineering and Environmental Management** at **Techno India University, West Bengal** during 2017 and 2018.
60. Invited as a keynote speaker and chaired a session in the **International Conference on Climate Change Impacts, Vulnerabilities and Adaptation: Emphasis on India and Neighbourhood** at **Indian Institute of Technology (IIT), Kharagpur, West Bengal** during 26th February to 2nd March, 2019.
61. Invited as a Plenary speaker in the **International Conference on Emerging Perspectives in Commerce, Economics, Environment and Management- Transformation of the Global Economy'**, 13 - 14 September 2019, at **St. Xavier's College.**
62. Invited as a Plenary speaker in the **International Conference on Climate Change: Impact, Management, Law and Policy Formulation** on 17 - 18 January 2020 organized by **Centre for Regulatory Studies, Governance and Public Policy, The West Bengal National University of Juridical Sciences, Kolkata** in collaboration with **Techno India University, West Bengal** at **WBNUJS.**
63. Participated as a resource person in the Webinar on '**COVID-19 Lockdown and Environment around us**' organized by **Calma Expeditions Inc., USA** in collaboration with **Centre for Regulatory Studies, Governance and Public Policy, The West Bengal National University of Juridical Sciences** held on 7th May, 2020.
64. Participated as a Keynote Speaker in the Webinar on '**Blue Economy: Prospects & Challenges**' organized by **Techno India University, West Bengal** on 6th & 7th March, 2021.
65. Participated as a Keynote Speaker in the Webinar '**Global Summit on Total Quality Management: A Path for Post pandemic Revival**' and presented paper entitled '**Total Quality Management (TQM) on Blue Economy**' organized by **Techno India University, West Bengal** on 28th August, 2021.
66. Participated as a Resource Person in the **IFS Training programmed** organized by **IBRAD, Kolkata** on 26th May, 2022.
67. Invited as a speaker in **23rd International Biennial Conference & AGM-2023, Zoological Society of Bangladesh** on the Conference theme "**Transformation of poverty through Improvement of Health and Innovative Utilization of Bio-resources**" organized by **Zoological Society of Bangladesh (ZSB)** on 26th April, 2024 at **University of Dhaka, Bangladesh.**

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
1)	<i>Subhra Bikash Bhattacharyya</i>	Growth and ecology of edible marine oyster <i>Saccostrea cucullata</i> in relation to the physico-chemical variables in the mangrove environment of deltaic Sundarbans	2004	This thesis reflects the growth and edible value of rocky oyster. The thesis may serve as baseline information for initiating oyster culture in coastal West Bengal as alternative livelihood scheme.
2)	<i>Kiran Lal Das</i>	Ecology and Biology of sipunculus : <i>Phascolosoma arcuatum</i> inhabiting mangrove substratum of deltaic Sundarbans.	2004	Representatives of minor phyla have immense role in stabilizing coastal ecosystem. The present thesis highlights the distribution and condition of <i>Phascolosoma arcuatum</i> with respect to ambient environmental parameters of mangrove habitat in Indian Sundarbans.
3)	<i>Kakoli Banerjee</i>	Study on the ecology and distribution of phytoplankton in the coastal zone of West Bengal.	2004	Phytoplankton occupy the base of marine food chain and sustain the fishery resources of the aquatic system. In the present thesis, the role of several environmental parameters on the population and diversity of phytoplankton community has been discussed.
4)	<i>Uttam Panja</i>	Study on the ichthyoplankton spectrum of coastal West Bengal	2007	The fish juveniles and ichthyoplankton, in the present programme were collected (in the form of wastage) from prawn seed collectors after sorting out the target species (seeds of tiger prawn). Thus this work not only reflects the magnitude of wastage of fish juveniles due to wild harvest of prawn seeds in coastal West Bengal, but it also serves as the stock register of ichthyoplankton in different seasons of the year.
5)	<i>Soumen Sahu</i>	Threats to macrobenthic molluscan community of coastal West Bengal – monitoring, statistical prediction and management	2006	The coastal zone of West Bengal is presently under severe anthropogenic pressure arising from the rapid industrialization and urbanization of the city of Kolkata, Howrah and the newly emerging Haldia complex. The industrial effluents contaminated with heavy metals, the antifouling paints used for conditioning fishing vessels and trawlers, the fluctuation of salinity are some of the major threats to molluscan community of coastal West Bengal. This programme addresses these threats and focuses on few conservation approaches to preserve the molluscan diversity in the present geographical locale.
6)	<i>Amitava Aich</i>	Study on the ecology of benthic molluscs inhabiting hard substrata in the intertidal zone of the Northeast coast of the Bay of Bengal	2007	The marine and estuarine molluscan community has great relevance as many species of this community has edible value and serves as the source of lime. The filter feeding bivalves are also agents of bioremediation. The present thesis highlights the distribution, abundance and diversity of macrobenthic molluscan community with respect to selective ecological parameters.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
7)	<i>Ananda Gupta</i>	Study on the status of coliform bacteria with respect to physico-chemical variables in the Northeast coast of Bay of Bengal	2007	Rapid industrialization and urbanization have deteriorated the coastal waters to a great extent. The West Bengal coastal zone is no exception to this rule. The abundance of microbial load in the ambient media is a reflection of untreated sewage discharge from the adjacent landmasses. The present programme is an approach to understand the seasonal and spatial oscillation of microbial load in the study area.
8)	<i>Tapti Sengupta</i>	Fabrication of management models for culture-based fisheries systems	2010	Fish yield in closed floodplain wetlands needs scientific management of biotic and abiotic parameters, which has been critically analysed in the present programme. The output of this programme will help to fabricate population models for carp species stocked in such systems.
9)	<i>Atanu Kumar Raha</i>	Study of spectral signatures of phytoplankton pigments using satellite based remote sensing and GIS in Indian Sundarbans wetland	2009	The present programme has quantified the phytopigment level in different pockets of Indian Sundarbans and identified the productive areas in the aquatic sub-system. The impact of hydrological parameters on phytopigment concentrations has also been monitored in the present programme.
10)	<i>Dibyendu De</i>	Assessment and management of extensive carp culture systems in India: A population dynamics approach	2010	The present thesis gives an estimation of the density - dependent growth and size dependent mortality for the carp species that are regularly stocked in the extensive culture systems. The effect of water quality on population parameters has also been evaluated through this programme.
11)	<i>Sufia Zaman</i>	Study on shrimp growth in relation to selective abiotic and biotic parameters in and around Indian Sundarbans	2008	The backbone of Indian export related earnings are greatly dependent on tiger prawn production. The growth and survival of this high valued crustacean species is a function of water quality and microbial status of the culture pond. This issue has been critically analysed in the present thesis in and around the frame of mangrove dominated Indian Sundarbans.
12)	<i>Harekrishna Jana</i>	Study on microbial load in edible oyster (<i>Saccostrea cucullata</i>), water and sediment from Indian Sundarbans	2012	The quality of flesh in edible marine products is a function of microbial load. Sewage discharge in estuarine and coastal waters without adequate treatment has contaminated the aquatic system with several microbial strains, which often get their entry in the biotic compartment. The present programme has evaluated the seasonal microbial load in the edible oyster flesh sampled from Indian Sundarbans region with respect to ambient environment.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
13)	<i>Gahul Amin</i>	Study on the inter-relationship between phytopigment and hydrological parameters in and around eastern sector of Indian Sundarbans.	2012	Phytopigment concentrations have been analysed in the present thesis through seasons with respect to dissolved heavy metals and several relevant parameters like salinity, pH etc. with the aim to determine the magnitude of stress on the aquatic sub-system in and around mangrove dominated Indian Sundarbans.
14)	<i>Rajib Chakraborty</i>	Status of heavy metal pollution in the coastal zone of West Bengal	2011	Heavy metal (viz. Zn, Cu and Pb) levels in the aquatic phase and underlying sediment column from three stations (viz. Canning, Sagar Island and Junput) of the coastal zone of West Bengal during different seasons in 2006 and 2007 were recorded. This zone has been polluted from urban wastes, industrial effluents, land washout, tourism activities, shipping etc. since early 1970s. A correlation of the content of metal level in the aquatic phase and sediment was also noted which indicates sharp compartmentation of metal level in the present zone.
15)	<i>Nibedita Mukhopadhyay</i>	Identification of major anthropogenic threat in and around Sundarbans Tiger Reserve (STR) through Phytopigment level estimation	2009	The concentrations of the phytopigments in the estuarine system is a function of various hydrological parameters. The present work programme was carried out at 24 different sampling stations in and around the Sundarbans Tiger Reserve (STR). The results of this investigation revealed pronounced seasonal oscillation of phytopigments and their dependency on environmental parameters like salinity and pH (positively) and nitrate, phosphate and silicate (negatively). The phytoplankton species responsible for phytopigment budget in the sampling stations have also been identified with respect to their taxonomic position.
16)	<i>Rajrupa Nandi</i>	Studies on growth potentials of <i>Macrobrachium rosenbergii</i> and principal environmental quality following feed supplementation with mangrove associated plant products	2013	In the coastal and saline belt, freshwater prawn farming is gaining popularity day by day due to less risk and low cost involved in the process in comparison to the culture of tiger prawn in the brackish water system. The present Ph.D. programme has assessed the growth of <i>Macrobrachium rosenbergii</i> with respect to selective physico-chemical variables (water temperature, pH, nutrient load, organic carbon in pond bottom soil, transparency and dissolved oxygen) and specially formulated feed of mangrove origin in freshwater ponds of Indian Sundarbans region.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
17)	<i>Subhasree Thakur</i>	Seasonal female reproductive cycle and its functional relationship with other endocrine organs in the common indian house sparrow (<i>Passer domesticus indicus</i>)	2014	<i>Passer domesticus indicus</i> is a very common avian species in the Indian sub-continent and is widely available in the state of West Bengal. This species has significant ecological status as a voracious feeder of several insects that cause ecological and economic damage by destroying agricultural food grains. However, this species also consumes several varieties of food grains which have imparted a special status to the species in the ecological and economic matrix of India. Recently, a belief on the fluctuation of the population of this species has emerged because of several environmental factors like rapid rate of urbanization, intense industrialization, climate change and uncontrolled use of electronic devices, use of chemical pesticides to boost up agricultural production etc. These factors have considerable impact on the endocrine system of the species, which has been highlighted in this thesis.
18)	<i>Kasturi Sengupta</i>	Study on the carbon stock pattern in dominant mangrove species of Indian Sundarbans	2014	The present programme provides a comprehensive synthesis of the available data on carbon stock in two forest patches of Indian Sundarbans distributed in the western and central sectors (during a span of two years 2010 and 2011). The two patches are significantly different with respect to above ground biomass, carbon stock, and carbon dioxide equivalent per hectare. The organic carbon and mangrove litter production rate also showed spatial variation. This may be attributed to drastically different environmental conditions to which these forest patches are exposed to on account of massive siltation that prevent the flow of Gangetic fresh water to the Central Sector of the study area.
19)	<i>Somenath Das</i>	Bioaccumulation of Heavy Metals in <i>Porteresia Coarctata</i> Inhabiting Indian Sundarbans	2016	Bioaccumulation of heavy metals in salt marsh grass was studied with respect to heavy metals in the lower Gangetic delta region.
20)	<i>Debasish Roy</i>	Handling Efficiency with multi objective optimisation in uncertain environment	2016	Highlighted a new Multi-Objective Simplex Method and also proposed a solution to Fraction through classical optimization algorithm. The research used Genetic Algorithm to solve Single Objective Optimisation which is a cutting edge concept. Also a comparison of the performance of Classical Algorithms and Genetic Algorithm was carried out.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
21)	<i>Tanmay Ray Chaudhuri</i>	Study on heavy metal pollution in the lower Gangetic delta, West Bengal, India	2016	The present thesis is an attempt to find the role of acidification of estuarine water of Indian Sundarbans on the concentrations of zinc (Zn), copper (Cu) and lead (Pb) in the ambient media.
22)	<i>Prosenjit Pramanick</i>	Study on the Ecology and Biochemical aspects of the major Seaweeds of Indian Sundarbans with few edible products	2017	The present work is a humble approach to highlight the spatio-temporal variation of seaweeds available in Indian Sundarban region with the aim to develop food products like cookies and ice-cream that can be an avenue for alternative livelihood for the island dwellers of Indian Sundarbans.
23)	<i>Bulti Nayak</i>	Identification and characterization of a few rhizomicrobial isolates from the rhizosphere of <i>Ipomoea pes-caprae</i> in and around Indian Sundarbans	2017	Rhizobacterial diversity from the rhizosphere of sand binder, <i>Ipomoea pes-caprae</i> was monitored with respect to ambient environmental conditions and bioremediation potential was also documented.
24)	<i>Atanu Roy</i>	Study on stored carbon in major phytoplankton species of East Kolkata Wetlands, West Bengal	2017	In the present programme a total of 47 species of phytoplankton has been documented in the selected bheries of EKW. In all the bheries, the stress factor increased with time as dissolved oxygen level decreased and all other parameters (pH, temperature, nitrate, phosphate, silicate and chlorophyll <i>a</i>) increased in 2015 as compared to 2014. Significant negative relationship between phytopigment and nutrients confirm the uptake of nutrients by phytoplankton. Hence proper input of nutrients (through sewage) in the bheries is suggested to maintain the ecological balance and secondary production of the bheries.
25)	<i>Rupa Banerjee</i>	Study on Carbon Sequestration Pattern of Selected Tree Species in and around Kolkata, India	2018	Trees in urban area are important natural and cultural resources which provide several ecosystem services. Trees are form of community green infrastructure and provide important services such as storm water management, erosion control and energy conservation. The tree canopy of its recovery potential effects particularly in reduction of carbon emissions released from thermal power plants. Enhancing urban forest sequestration offers immediate environmental and consumer benefits. The present thesis aims to study the potential of urban trees to store carbon.

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S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
26)	<i>Pritam Mukherjee</i>	Biochemical and Functional Characterization of Exo-polysaccharides Obtained from Heavy Metal-Resistant Plant Growth-Promoting Halo-Rhizobacteria of <i>Avicennia marina</i> of Indian Sundarbans	2018	In the present study, 14 multiple heavy metal-resistant (MHMR) halo-rhizobacteria were isolated from the rhizosphere soil of the halophytic true mangrove <i>A. marina</i> . Among these isolates, 6 unique strains belonging to the genus <i>Halomonas</i> were further characterized for their essential PGP traits under both salt and As(III) stress. In addition, special focus was given on the production and purification of halo-rhizobacterial EPS along with their in-depth biochemical, biophysical and functional characterization to understand the roles of EPS in osmotolerance, heavy metal bioremediation and plant growth promotion.
27)	<i>Upasana Datta</i>	Bioaccumulation pattern of selected heavy metals in the grassy vegetations on fly ash in Mejia Thermal Power Station (MTPS), West Bengal, India	2018	Vegetation cover on the abandoned fly ash is an eco-friendly measure of pollution control for improvement and enriching the substratum to promote vigorous vegetation growth. The selected grassy species (<i>Typha elephantina</i> , <i>Phragmites karka</i> and <i>Saccharum spontaneum</i>) have accumulated considerable levels of Zn, Cu and Pb both in the above ground and below ground structures and may serve as effective bioremedial agents.
28)	<i>Arpan Mitra</i>	Ecosystem Services of Coconut palm with special reference to Carbon Sequestration	2018	The present thesis aims to study the carbon stored in the Above and Below Ground Biomass of the coconut trees (<i>Cocos nucifera</i>) sampled from three districts in the state of West Bengal during 2016 and 2017, based on agro-climatic variations, which are in the areas of Sirakol (in South 24 Parganas district of West Bengal, India), Shantiniketan (in the Birbhum district of West Bengal, India) and Taranipur (in North 24 Parganas district of West Bengal, India).
29)	<i>Asish Mondal</i>	Study on different fish and shrimp species combination on production performance in brackishwater ponds of Indian Sundarban	2018	In context to India, it has been validated that polyculture is potentially more sustainable than monoculture due to the reutilization of waste products of one species by another and represents an important alternative to solving the problems of shrimp aquaculture. Modification of traditional brackishwater polyculture is a logical choice towards sustainable intensification. Species combination and their compatibility are of great concern to achieve higher productivity and profitability in polyculture but information in this context is scanty. The present research programme was carried out to evaluate species compatibility in different combinations towards better production and profitability reducing environmental and economic risks.

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S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
30)	<i>Shankhadeep Chakraborty</i>	Bioaccumulation patterns of heavy metals in dominant mangrove floral species in Indian Sundarbans	2018	Considering the bio-remediation potential of mangroves, the present research programme attempted to monitor the water quality and bioaccumulation patterns of heavy metals (which are conservative pollutants) through three well-defined seasons over a period of two years. The area of investigation encompasses 12 stations in Indian Sundarbans and hence another major aim of this study is to monitor the spatio-temporal variations of heavy metals (zinc, copper, lead and mercury) in the ambient media and selected species of mangroves (<i>Avicennia marina</i> , <i>Avicennia alba</i> , <i>Avicennia of fcinalis</i> and <i>Excoecaria agallocha</i>). The results clearly identified the potential mangrove floral species for bioremediation in the coastal and estuarine zones.
31)	<i>Abhisek Saha</i>	Threats to fish diversity in the North-east coast of India	2019	The fishery sector is witnessing several categories of threats like over exploitation, pollution, natural disasters, siltation, prawn seed collection (local-specific problem particularly restricted to West Bengal coast) etc., which have been discussed in the present thesis by analysing the responses of the stakeholders. The results of the analysis were finally subjected to statistical approaches to develop a management action plan for minimizing the threats on coastal fisheries.
32)	<i>Samimul Islam</i>	Ecosystem services of mangrove flora with special reference to Indian Sundarbans	2019	In Indian sub-continent, the quantitative picture of ecosystem services of mangroves is still in an embryo stage although with some 34 true mangrove species and a broad range of mangrove associate floral species, the Indian Sundarbans mangrove system has an impressive presence in the world mangrove atlas. The present thesis is a humble approach to highlight the existing ecosystem services offered by the mangrove vegetation of Indian Sundarbans. The participation of people to know their views on the benefits of mangroves is a special feature of the present work through which several untapped ecosystem services of mangroves have come under the limelight.

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S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
33)	<i>Saptarshi Sankar Chakrabarti</i>	Planning of A Replicable Eco Smart City/ Village Model : A Roadmap for Implementable Green Technologies Towards A Moderated Sustainable Development	2020	The world is progressing fast both in terms of population and their demands and needs. The projected population of 9 billion during 2050 has high probability to exert a significant adverse impact on space and resources. To keep this huge population in a balance state scientifically planned city coupled with rational utilization of resources is extremely important. This is the very point from where the seed of smart city germinates. Smart city will basically look into the optimum utilization of energy, resources, space, keeping a safeguard towards environmental quality. The entire criteria for Smart City development has been critically explained in the present thesis with case studies.
34)	<i>Sudeshna Biswas</i>	Mangrove Associate Species: A Potential Source of Food Products	2020	Development of floral based food items plays an important role in providing food security. Nutrition is one of the most critical issues to address the health sector of coastal population and island dwellers. The coastal zone is enriched with a wide spectrum of natural resources of which mangroves are noted for their ecosystem services. Mangroves are widely distributed in the coastal zone particularly at the land-sea interface. Lots of literatures are available on development of food products from mangroves as well as seaweeds and their microbial assay. However, no research works have yet been conducted on the development of food products from mangrove associate species although they are important sources of bioactive substances and have high nutritional value. In this thesis, the candidate has filled up this gap by utilizing <i>Suaeda</i> and <i>Salicornia</i> for preparing food products like Samosa and Kachuri.
35)	<i>Joystu Dutta</i>	Bioaccumulation pattern of Toxic Heavy Metals in selected Flora and Fauna from East Kolkata Wetlands, West Bengal, India	2020	The current research is a novel initiative to investigate the bioaccumulation pattern of the toxic heavy metals in commonly consumed vegetable and fish species largely harvested from the water-bodies (locally known as bheries) and agricultural fields that run criss-crossing East Kolkata Wetlands (EKW), a peri-urban Ramsar Site along the south south-eastern fringes of Kolkata, a prime city of India. EKW acts as Kidneys of the city of Kolkata as it plays a pivotal role in regulation, management and recycling of water and wastes. In this thesis, the candidate has taken a sincere effort to test the quality of fishes and vegetables collected from EKW for a period of 3 years.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
36)	<i>Nabonita Pal</i>	Study on Stored Carbon by Mangrove Seedlings in Indian Sundarbans	2020	The mangrove ecosystem of Indian Sundarban is noted for its unique carbon sequestration potential. The deltaic complex sustains 34 true mangrove floral species, which are distributed as per their salinity preference. In this research programme 18 stations were monitored through seasons for a time span of 2 years to study the stored carbon in mangrove seedlings of dominant species namely <i>Sonneratia apetala</i> , <i>Avicennia marina</i> , <i>Avicennia alba</i> , <i>Avicennia officinalis</i> , <i>Excoecaria agallocha</i> .
37)	<i>Arpita Saha</i>	Study on Spatial Variation of Mangrove Floral Health in the Lower Gangetic Delta	2020	Mangroves are unique vegetation at the land-sea interface with several adaptive modifications like presence of pneumatophores, stilt roots, prop roots etc. Considering the ecological importance of mangroves it is important to assess their health. In this thesis, Ms. Arpita Saha has considered the survival percentage, Above Ground Biomass and different ecological indices to evaluate the health of mangrove trees covering ten stations in Indian Sundarbans.
38)	<i>Maria Fernandes</i>	Predicament of women in aquaculture sector of Indian Sundarbans - A study	2021	Indian Sundarbans with a hostile environment is the survival ground of more than 4 million people. Aquaculture is one of the important livelihoods in this deltaic complex. However, in true sense, aquaculture in this region of the lower Gangetic delta centers on tiger prawn (<i>Penaeus monodon</i>) culture. In addition, polyculture is practiced in many ponds. The collection of prawn seed is carried out by the women in Sundarbans ranging from the age of 12 years to 75 years. During this practice, there are occupational hazards (like severe gastric pain, dermatological problem, vision loss/poor vision etc.). There is also the risk of being attacked by sharks, crocodiles and even tigers from the adjacent mangrove forest. These sufferings of the women population of Sundarbans can be solved by providing them alternative livelihood programme which has been clearly depicted in the present thesis.
39)	<i>Shyama Prasad Bepari</i>	Spatio-temporal variation of fish composition from the major fish landing stations of Bangladesh	2021	The present thesis looked into various aspects like fish composition in two major landing stations of Bangladesh namely Patharghata and Cox's Bazar, evaluation of catch diversity index from the species-wise catch volume for each station, assessment of overall health of the landing stations through respondent analysis and finally development of a management action plan to boost up the quality production of fishes, which is one of the important backbone of the GDP of the nation.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
40)	<i>Pallavi Dutta</i>	Ecology and scope of monosex tilapia culture in West Bengal	2021	India is the second most populous country in the world with a total population around 1.30 billion. It has been documented that the overall annual population growth is presently at the rate of about 1.41% per annum. The greatest challenge the country faces is to ensure food security of the largely undernourished protein starved population in rural as well as urban areas, especially in the context of declining land resources available for agriculture and animal husbandry. Hence fisheries, mainly aquaculture sector would have to emerge as the savior to meet increased food demand. Fisheries and aquaculture is a source not just for health but also for wealth. Employment in the sector has grown faster than any other sectors. Fish continues to be one of the most traded food commodities worldwide. However, there is a need to look beyond the economics and ensure that environmental well-being is compatible with human well-being in order to make long-term sustainable prosperity a reality, which has been clearly depicted in the present thesis. Nile tilapia, <i>Oreochromis niloticus</i> is one of the major species produced in aquaculture sector occupying the third position, which has been selected as the candidate species in the present research programme.
41)	<i>Sourav Dutta</i>	Studies on development of transgenic lines tolerant to lepidopteran insect pests through Agrobacterium-mediated genetic transformation in flax (<i>Linum usitatissimum</i>)	2021	Efficient plantlet regeneration and genetic improvement of Indian flax is felt necessary for enhancement of productivity or value addition like increased oil content, premium fibre quality etc. An efficient plantlet regeneration technique in Indian flax var. Tiara, through <i>in vitro</i> tissue culture technique, using leaf explants with successful rooting, acclimatization, hardening and rearing of the plantlets <i>ex vitro</i> up to maturity with viable seed setting was developed. <i>Agrobacterium</i> -mediated floral-dip technique was also used effectively and efficiently for introducing unique and desired traits into the flax crop specie. The developed <i>in vitro</i> tissue culture protocol offers immense scope for efficient plantlet regeneration to augment flax production for providing impetus to flax husbandry.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
42)	<i>Indrani Dhar</i>	Application of Blue Economy in framing the regional planning of lower Gangetic Delta	2022	The Blue Economy vertical has diverse scopes. First, the blue economy encompasses all economic activities with a direct relationship with the resources of oceans, seas, bays and estuaries. These include economic activities that are (a) ocean-based, and (b) ocean-related. However, these ocean economic activities must be sustainable. Ocean-based activities include those that are undertaken in the ocean (e.g., fisheries and aquaculture, of f shore oil and gas, mining, shipping/marine transportation, marine tourism, ocean energy, desalination, marine construction, communications – submarine cables). The present thesis has tried to evaluate the potentiality of deltaic Sundarbans in the domain of blue economy and the various threats operating on the resources of the region.
43)	<i>Amit Kumar Dass</i>	Impact of drought on urban water supply	2022	The present thesis aims to explore the range of drought management issues in Rajasthan in general and in Jaipur city in particular. The study has been carried out on the foundation of secondary data obtained from relevant departments under the State and Central Government, literature survey on the subject and personal interactions with the stakeholders. The candidate documented from the literature study that since 1901 about 48 drought events occurred in Rajasthan of varied magnitude. However, there are still few gray areas in the drought control policy of the state, which has been covered up through some concrete recommendations. The wastewater management in Jaipur city has been studied critically and the inter-relationship of drought with climate change has been figured out.
44)	<i>Sumouli Roy</i>	Impact of Covid-19 lockdown on the hydrological parameters of River Hooghly	2022	Human history is witnessing a very strange time fighting an invisible enemy; the novel COVID-19 coronavirus. As a safe guard method all industries and tourism activities were stopped during the lockdown phase. The present research programme has carried out a thorough analyses on the alteration of the Hooghly River environment (using selected and relevant hydrological parameters as proxy) – as effect of COVID-19 lockdown, when all industrial activities, water transport and several municipal activities were ceased.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
45)	<i>Sana Ahmed</i>	Ethnobotanical Survey in the World Heritage Site of Indian Sundarbans and development of few commercial products	2022	Coastal vegetation contains many species of specific flora and thus it is an ecological store house rich in Biodiversity and also has high ecological values. Local communities have developed their own traditional system of utilizing these coastal plants for medicinal purposes. In context to Indian Sundarbans sustaining some 34 true mangrove floral species, abundance of medicinal mangrove plants have been documented. The present research has undertaken a total survey of medicinal plants in the Sundarban Biosphere Reserve of 9630 sq. km by fragmenting the Biosphere Reserve area into three sectors namely western, central and eastern Indian Sundarban.
46)	<i>Deepta Chakravartty</i>	Studies on the effects of amino acid-based feed supplement on growth and production performances of shrimp and finfishes in brackish water polyculture in the Indian Sundarban	2022	The current research was taken up to determine the impact of mixed amino acids as an accessory in vegetable protein incorporated economic feed using brown seaweed (<i>Ascophyllum nodosum</i>) distillate in tiger shrimp polyculture with carps in low saline areas at different carp stocking densities and tiger shrimp polyculture with mullets in higher saline brackishwater areas at different cropping patterns of tiger shrimp. Such research has considerable societal impact in terms of livelihood.
47)	<i>Manmatha Nath Sarker</i>	Preparation of fish feed from mangrove associate flora; an avenue for alternative livelihood	2023	The present work is an attempt to partially reduce the traditional animal ingredient (fish meal/ prawn shell dust/ dried molluscs etc.) of prawn feed with selected mangrove associate flora <i>Suaeda maritima</i> as ingredients that are widely available in the Satkhira district of Bangladesh. The effects on the culture species (preferably <i>Macrobrachium rosenbergii</i>) in terms of morphological, biochemical and histological characteristics have been evaluated after the application of formulated feeds incorporated with floral ingredients.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
48)	<i>Dipak Kanti Paul</i>	Impact of climate change on the regulating services of Sundarban mangroves	2023	There are certain confusions to pinpoint the exact ecosystem services offered by mangroves because the ecosystem is often overlapped or combined with tidal marshes, sea grasses community, coral reefs etc. In the present proposal the regulatory services of mangroves have been emphasized. The regulatory services of mangroves like water quality, wind velocity, carbon sequestration are impacted by climate change, e.g., the level of pollution in the aquatic phase is affected by acidification as the process leads to dissolution of heavy metals from the sediment bed to the overlying aquatic phase. Many such effects of climate change on the regulatory services of mangroves have been addressed in this thesis considering the views of the respondents.
49)	<i>Farjana Islam Aovi</i>	Antimicrobial and Bioactive Properties of Dominant Mangrove Floral Species of Bangladesh Sundarbans		Increasing rates of antimicrobial resistance have left clinicians with limited drug options for the treatment of bacterial infectious diseases. This is a major public health concern worldwide, especially in developing countries where higher rates of resistant bacterial infections persist. This research aims to identify new antibacterial agents from the largest and cheapest source, the Sundarban mangrove forest preferably the Bangladesh part.
50)	<i>Vineeta Ghosh</i>	Major drivers of estuarine acidification in context to Indian Sundarbans and possible impacts on oyster community	—	A small drop in pH value of seas and estuaries has great implication in the domain of biotic community. Fundamental physiological processes of marine biota like photosynthesis, respiration, reproduction, calcification etc. are influenced by alteration of pH and carbonate ion concentration of the ambient aquatic phase. The formation of calcareous skeletons or shells in the marine and estuarine molluscan species is an internal process where most organisms appear to convert HCO_3^- to CO_3^{2-} to form calcium carbonate. It is therefore important to keep the shell undisturbed, which is often impacted by acidification. This fact is the bottom-line story of the present research in the frame work of Indian Sundarbans using oyster as the candidate species.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
51)	<i>Suvadeep Samanta</i>	Application of insect-based fish feed on water quality and zoo-technical parameters of Ornamental Fishes	2024	The present study have a good scope to assess the quality of fish feed that constitutes a major financial component in the domain of ornamental fishery. Benefit Cost Analysis (BCA) is tone of the major focusses of this research as setting up small scale ornamental fish feed cottage industry considering fly larva as important feed component. Thus, the present research has great scope in opening an avenue of alternative livelihood. Further, the guppies can be cultured at a lower expenditure, and released in water bodies to reduce the incidents of vector borne diseases.
52)	<i>Poulomi Mullick</i>	Evolving a framework for livelihood opportunity using natural resources of Indian Sundarban	2023	Mangrove forests of Indian Sundarbans provide a wide range of provisioning services like timber, fodder, honey, wax, tannin, fishes <i>etc.</i> , that are the sources of local level livelihoods. The climate resilient innovative livelihoods addressed in this research have been critically studied through SWOT analysis and emphasized with case studies generated from ground zero observations.
53)	<i>Sitangshu Roy</i>	Application of computer language and numerical model to analyse Environmental data of varied ecosystems	2024	Statistics and environmental science go hand in hand. Science experiments involve a natural order of determining a hypothesis, establishing test methods, collecting data, analyzing data, and drawing conclusions. Computer programming languages such as C can help scientists execute the statistical analysis of data by writing code to analyze their data. In the present research, ecological indices like Shannon Wiener species diversity index, Evenness index and Index of Dominance have been computed to evaluate the condition of mangrove vegetation in the study area of Indian Sundarbans. It is seen that there is significant variation in ecological indices between stations, which is primarily regulated by salinity. In addition, carbon sequestration by mangroves and condition index to represent the health of fishes has also been evaluated using C programming. The final objective of the thesis addressed the application of numerical modeling to evaluate the role of mangroves in wave attenuation.

9. List of Ph.D. Programme / Supervision under Dr. Abhijit Mitra

S. No.	Name of the candidate	Ph.D Title	Year of award	Programme summary
54)	<i>Pavel Biswas</i>	Development of low - cost feed incorporating mangrove floral ingredients for monosex tilapia farming in Indian Sundarbans.	2024	This study develops low-cost, eco-friendly fish feed using mangrove flora <i>Enteromorpha intestinalis</i> and <i>Porteresia coarctata</i> from the Indian Sundarbans for monosex tilapia farming. This approach reduces reliance on expensive, imported feeds, decreases environmental impact, and promotes sustainable aquaculture. Experimental trials show improved fish growth and lower feed conversion ratios. The research supports local livelihoods and aligns with global sustainable aquaculture efforts.
55)	<i>Debal Kumar Ghosh</i>	Impact of climate change on selective vector borne diseases in the specific geographical region in the state of West Bengal (India) : scopes and challenges.	2024	The study explores the impact of climate change on vector-borne diseases in West Bengal, India, emphasizing how temperature, rainfall, humidity, and urbanization influence malaria and dengue dynamics. It highlights regional variations, like in Canning and Darjeeling, underscoring the need for region-specific health strategies to combat these escalating challenges.
56)	<i>Abhirup Mitra</i>	Study on the sustainability of polyculture system in the fishery sector	2024	The present study on polyculture in India's fisheries explores integrating probiotics into fish feed to boost fish health and growth, addressing food security as the population rises. By enhancing nutrient absorption and reducing feed costs, probiotics in polyculture systems promise sustainable and economically viable aquaculture enhancements.



10. Teaching experiences: 25⁺ Years

Course Taught	Name of the University/ College / Institution	Duration
U.G. (B.A. /B.Sc. etc. Pass) (B.A., B.Sc. etc. Hons.)	West Bengal University of Animal and Fishery Science 2 years	[1997 and 2001]
P.G. [M.Sc. (Marine Science)]	University of Calcutta 22+ years	[1998 to 2020] <i>...still continuing</i>
P.G. [M.Sc. (Zoology)]	Netaji Subhas Open University (at Durgapur Govt. College)	2009-10
P.G. [M.Sc. (Biodiversity and conservation of Natural Resources)]	Central University of Orissa, Koraput	5 days [9 th to 13 th April, 2012 (as Visiting Faculty)]
M.Phil	[Fisheries Technology] University of Calcutta	5 years [2005 to 2009]
M.Sc. (Biotechnology)	Techno India University As Visiting Professor	[2013]

10. Teaching experiences: 25⁺ Years

Any other

Course Taught	Name of the University/ College / Institution	Duration
4 UGC sponsored Refresher Courses	Sivotosh Mookerjee Science Centre, Kolkata	84 days (21 days for each course) during 1997 & 1998
Training course on Agriculture, Pisciculture and Animal Husbandry	Rotary International District	3 days (April 11 to 13, 2003)
14 th and 16 th National Science Camp on Sustainable Use of Coastal and Marine Resources	Digha Science Centre & National Science Camp (NATIONAL COUNCIL OF SCIENCE MUSEUMS)	10 days (September 7 to 16, 2004) and 3 days during March 12 to 14, 2010) respectively
Overview of Wetlands	Indian Army Base ; Fort William	2 days (22 nd and 23 rd , November 2004)
Impact of Global warming and Climate Change on Forests and Biodiversity	WWF-India, New Delhi Secretariat	5 days (November 21 to 25, 2005)
Mangrove Biodiversity of Sundarbans	University of Massachusetts at Dartmouth, USA	1 month (1 st May, 2008 to 31 st May, 2008)
Training programme on mangrove management for carbon credit	Forest Department, Govt. of West Bengal	7 days (15 th April, 2009 to 21 st April, 2009)
DST-INSPIRE Internship Camp-2011	Rastraguru Surendranath College, Barrackpore	July 29, 2011 & October 21, 2011
Field-cum-training programme	Centre for Ocean and Environmental Studies	February 23 to 25, 2012
Planet Under Pressure	Digha Science Centre & National Science Camp (NATIONAL COUNCIL OF SCIENCE MUSEUMS)	28 th March, 2012
Research Methodology Class at Techno India University, West Bengal	Techno India University, West Bengal	2012 – Still continuing
Research Methodology & Intellectual Property Rights Lecture at Banwarilal Bhalotia College, Asansol, West Bengal	Banwarilal Bhalotia College, Asansol, West Bengal	During 2022
Research Methodology & Blue Economy	Northern University Bangladesh and Daffodil International University at Bangladesh	2022 and 2023

11. Services Rendered other than Teaching & Research

- Provided **consultancy services** to various Agencies, NGOs, Academic Institutes and Govt. Departments.
- Participated in **examination related duties** like supervision, paper setting and also as examiners in different Universities of the country (like M.Tech examination of Jadavpur University, West Bengal University of Animal & Fishery Sciences etc.).
- Acted as an **observer** (during 2002) in the competitive examination for recruitment of teachers in the Central Schools.
- Participated in **several awareness programmes, Science & Culture Expo and Teachers Training Workshops** (for upgrading School teachers during 2001 and 2002). Also participated as an invited speaker in the 8th All India Juvenile & Youth festival at Durgapur on 26.12.2002 organized by Science and Culture Organisation for Juvenile and Youth.
- Participated as a member of the Coastal Zone Committee for developing a stock registrar of biodiversity, along with the threats posed on them under the National Biodiversity Strategy Action Plan (NBSAP) of Govt. of West Bengal. Also participated to **prepare the NBSAP – East Coast Region Draft Action Plan**.
- Acted as **Coordinator** in National Seminars and Workshops during 2001-2002, Dolphin conservation Workshop at Sundarbans during 2004.
- Developed software (AAMSTAT) in collaboration with BOOLEAN LOGIC PVT. LTD. to evaluate the biological diversity of an ecosystem (at the species level).
- Participated in several societal benefit Programmes on request of Sundarbans Development Board, Forest Dept., Govt of West Bengal in the sphere of Livelihood generation schemes for poverty stricken local island dwellers.
- Developed Carbon ID card of dominant trees in Konnagar Municipality, West Bengal (India) with an attempt to evaluate the carbon storage potential of urban trees and mitigate the local level carbon dioxide rise during 2016.
- Developed low-cost marine floral based organic fertilizer as a part of alternative livelihood for coastal population during 2015 to 2018.
- Served as consultant to ADB, TATA STEEL, CESC and several Government and Non-Government Organizations.
- Initiated mass awareness on Environment & Ecology through Quiz contest under KMC in the megacity of Kolkata during 2022-23



12. Membership of Professional Bodies, Societies and Committees (At National & International Level)

- **PACON International, USA** (This is an International non-profit organization dedicated to the sharing of scientific and technical information among the Pacific maritime nations).
- **World Wide Fund for Nature (WWF) - India**
- **Working Group for the ecoregion, east coast**, in the context of the **National Biodiversity Strategy and Action Plan (NBSAP)** under the **Ministry of Environment & Forests, Govt. of India**.
- **National Biodiversity Strategy Action Plan (NBSAP)** in the coastal zone section **under Govt. of West Bengal**.
- **Indian Association for the Cultivation of Science (IACS), Calcutta**.
- **Society of Indian Ocean (SIOS), New Delhi**.
- **S.D. Marine Biological Research Institute, Sagar Island, Sundarbans**.
- **Central Calcutta Science & Culture Organization for Youth, Calcutta**.
- **Creative Research Group (CRG)**.
- **West Bengal Academy of Science and Technology**.
- **IUCN member of Commission on Ecosystem Management (CEM)**.
- **Nature Environment & Wildlife Society**
- **Mangrove Society of India**
- **Member, Research Advisory Board, The West Bengal National University of Juridical Sciences**
- **Journal Editorial Board Member under the Russian Academy of Sciences during 2023**.

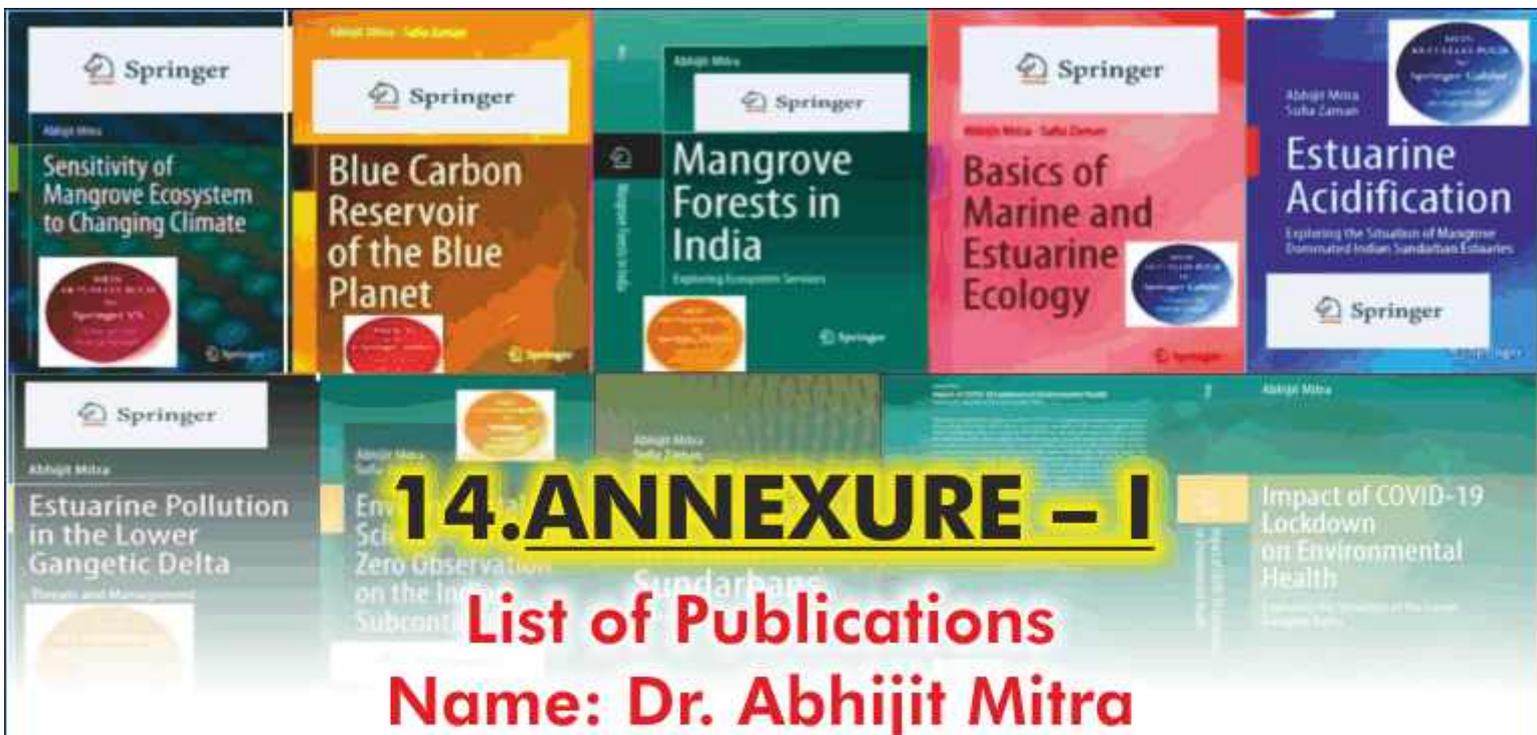
13. Highlights

- Secured 1st Class in M.Sc. (Marine Science) examination in 1985 in the University of Calcutta and placed in **1st position** in order of merit.
- Qualified the **National educational Test (NET)** conducted by the University Grants Commission, Govt. of India and received fellowship for carrying out the Ph.D programme in the University of Calcutta.
- Received the **Ph.D award** in 1994 from the University of Calcutta.
- Published **714 papers and 62 Books** (Text and Reference type)
- Received **cash awards** from Calcutta Port Trust, Society of Indian Ocean Studies, and Indian Ports Association for undertaking research programmes and contributing articles related to Coastal Pollution.
- Received **European Union Grant (US \$1200)** for attending and acting as a Chairperson in the International Mangrove Meeting at Mombasa, Kenya during 2000.
- Supervised and successfully completed **19 Projects, 18 consultancy jobs** and acted as Coordinators in several National & International Seminars and Workshops.
- Supervised **56 Ph.D students** and presently 7 scholars are under supervision.
- Visited countries like **Singapore** (for paper presentation), **Malaysia** (for attending workshop), **Muscat** and **Kenya** (as a Chairperson in Mangrove Macrobenthos Conference).
- Provided **Consultancy services** to several Agencies, NGOs, Academic Institutes and Govt. Departments several of which were undertaken through University Industry Institute Partnership Programme (CUIPP) Cell.
- Served as a **consultant (Mariculture & Pisciculture Specialist)** on behalf of **ADB** for livelihood upliftment in Indian Sundarbans.
- Selected as **IUCN Member of Commission on Ecosystem Management (CEM)**.
- Serving as the **Reviewer** of scientific articles in several National and International Journals.
- Elected as the Journal **Editorial Board Member under the Russian Academy of Sciences** during 2023.



Dr. Abhijit Mitra

*Associate Professor, and former Head,
Department of Marine Science,
University of Calcutta, India.*



14. ANNEXURE - I

List of Publications

Name: Dr. Abhijit Mitra

YEAR: 1987

1. **Mitra, Abhijit; Ghosh, Phani Bhusan and Amalesh Choudhury. A marine bivalve *Crassostrea cucullata* can be used as an indicator species of marine pollution. *Proceedings of National Seminar on Estuarine Management*, 1987, 177-180.**
2. **De, T.K.; Mitra, A and A. Choudhury. Studies on phytoplankton and productivity around Sagar Island and Prentice Island, Sunderbans. *Proceedings of National Seminar on Estuarine Management*, 1987, 327-329.**

YEAR: 1990

3. **Mitra, A; Mukhopadhyay, B; Ghosh, A.K and A. Choudhury. Preliminary studies on metallic pollution along the lower stretch of the Hooghly estuary, West Bengal, India. *Proceedings of International Symposium on Marine Pollution*, 1990, 241-249.**

YEAR: 1992

4. **Mitra, Abhijit; Choudhury, Amalesh and Yusuf Ali Zamaddar. Effects of heavy metals on benthic molluscan communities in Hooghly estuary. *Proceedings of the Zoological Society*, 1992, 45, 481-496.**
5. **Mitra, Abhijit; Choudhury, Amalesh and Yusuf Ali Zamaddar. Seasonal variations in metal content in the gastropod *Cerithedia (Cerithideopsis) cingulata*. *Proceedings of the Zoological Society*, 1992, 45, 497-500.**

YEAR: 1993

6. **Mitra, Abhijit and Amalesh Choudhury. Seasonal variations in metal content in the gastropod *Nerita articulata (Gould)*. *Indian Journal of Environmental Health. NEERI*, 1993, Vol. 35, No. 1, 31-35.**
7. **Mitra, Abhijit and Amalesh Choudhury. Heavy metal concentrations in oyster *Crassostrea cucullata* of Sagar Island, India. *Indian Journal of Environmental Health. NEERI*, 1993, Vol. 35, No. 2, 139-141.**
8. **Mitra, Abhijit and Amalesh Choudhury. Trace metals in macrobenthic molluscs of the Hooghly estuary, India. *Marine Pollution Bulletin, UK*, 1993, Vol. 26, No. 9, 521-522.**
9. **Mitra, Abhijit. Metallic pollution in the Hooghly estuary: Effects and proposed control measures. *Journal of Indian Ocean Studies, Society for the Indian Ocean Studies*, 1993, Vol. 1, No. 1, 49-53.**

YEAR: 1994

10. Mitra, Abhijit; Trivedi, Subrata and Amalesh Choudhury. Inter-relationship between trace metal pollution and physico-chemical variables in the frame work of Hooghly estuary. *Indian Ports*, 1994, 27-35.
11. Mitra, Abhijit and Amalesh Choudhury. Dissolved trace metals in surface waters around Sagar Island, India. *Journal of Eco-biology*, 1994, Vol.6, No. 2, 135-139.
12. Mitra, Abhijit and Amalesh Choudhury. Heavy metal concentrations in oyster *Crassostrea cucullata* of Henry's Island, India. *Journal of Eco-biology*, 1994, Vol.6, No. 2, 157-159.
13. Mitra, Abhijit; Trivedi, Subrata and Amalesh Choudhury. Inter-relationship between gross primary production and metal accumulation by *Crassostrea cucullata* in the Hooghly estuary. *Pollution Research*, 1994, Vol. 13, No. 4, 391-394.
14. Mitra, Abhijit; Ghayasudin Md. and Amalesh Choudhury. Heavy metal concentrations in oyster *Crassostrea cuttackensis* of Henry's Island. *Indian Journal of Environmental Health. NEERI*, 1994, Vol. 36, No. 3, 205-208.
15. Mitra, Abhijit; Choudhury, Amalesh and Deepak Basu. Trace metal concentration in vegetative parts of *Ipomea pescarpes*. *Indian Journal of Environmental Health. NEERI*, 1994, Vol. 36, No. 2, 119-123.
16. Chakraborty, K; Mitra, A; Sanyal, T and Amalesh Choudhury. Role of bio-geochemical variables in the sedimentation of Hooghly estuary, India. *Coastal Zone Conference, Canada'94, Halifax, Nova Scotia*.
17. Trivedi, Subrata; Mitra, Abhijit; Gupta, Ananda; Chaudhuri, Abhijit; Neogi, Soumya; Ghosh, Indranil and Amalesh Choudhury. Inter-relationship between physico-chemical parameters and uptake of pollutants by estuarine plants *Ipomea pescarpes*. *Proceedings of the seminar: On our environment: Its challenges to development projects, American Society of Civil Engineers – India Section*, 1994, pp. SC-1 – SC-6.
18. Chaudhuri, Abhijit; Mitra, Abhijit; Trivedi, Subrata; Gupta, Ananda and Amalesh Choudhury. Phosphate and nitrate status in the east coast of the Indian sub-continent. *Proceedings of the seminar: On our environment: Its challenges to development projects, American Society of Civil Engineers – India Section*, 1994, pp. AC-1 – AC-9.
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