



# Dr. Mahua Das

Associate Professor  
Department of Environmental Studies

## Contact Information

**Contact Address (Office)**  
5 Lala Lajpat Rai Sarani,  
Kolkata: 700 020

**Contact Number (Office)**

**E-Mail ID (Official)**  
mahua.das@thebges.edu.in

## Specialization

- Environmental Science



**THE BHAWANIPUR  
EDUCATION SOCIETY COLLEGE**

## Biographical Sketch

Dr. Mahua Das is in the substantive post of Associate Professor in The Bhawanipur Education Society College, Science Section since 1.03.1995 and she has previously taught Resource Studies and currently Environmental Studies in the Science Section as one of the senior faculty. She has also been entrusted with several academic responsibilities like Co Ordinator of several Committees, Secretary in the Teachers Council of the College, Secretary of WBCUTA (Primary Unit), Officer-In-Charge, BES College for Calcutta University Examinations, Paper setter, Examiner and Scrutineer of Environmental Studies, etc. She taught Post Graduate Geography in the University of Kalyani and is presently the Guest Faculty in the University of Calcutta teaching Earth Science in Post Graduate level.

Dr Mahua Das completed two UGC Minor Research Projects with extensive Field Work and achieved UGC Post-Doctoral Research Award, 2012-2014. She is the author of two International Research E-Books in LAP-LAMBERT, Germany, a number of research papers and articles published in International and National journals. She has also delivered a number of lectures in prestigious conferences. Dr. Das is attached to SPRINGER NATURE as their Research Paper Reviewer since 2019.

## Academic Qualifications

Degree obtained	Class/ Divn.	Institution	Subject	Year
Madhyamik	1st	W.B.B.S.Edn	Beng,Eng,Maths Hist,Geo,L.Sc,P.Sc,	1982
Higher Secondary	1st	W.B.C.H.S.Edn	Beng,Eng,Pol,Sc, Phil,Eco,Geo	1984
B.Sc(Hons. in Geography)	2nd	University of Calcutta	Geo(Hons),Eco, Po.Sc,	1987
M.Sc ( in Geography)	1 <sup>st</sup> class	University of Burdwan	Specialisation- Environmental Geography	1990
B.Ed)	2nd	University of Calcutta	method-Geography	1991
Ph.D(Sc.) in Geography		University of Calcutta	Geography	2004
Certificate in Remote Sensing & GIS	Grade- A	State Science & Technology Dept.	Remote Sensing & GIS	2010
UGC Postdoctoral Research Award		UGC, New Delhi	Geography	2012- 2014

## Title of Ph. D thesis

- "An appraisal of aquatic resources in Sundarbans for sustainable development"



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## Position Holding (Full Time)

- Date of Joining as UGC Full Time Faculty at substantive post: 1.3.1995  
Designation : Associate Professor in Resource Studies  
Department : Science Section, The Bhawanipur Education Society College

## Post Graduate Teaching (Guest) Appointment

- Guest Faculty, Earth Science, Dept of Museology, University of Calcutta, since July, 2018 (CONTINUING)
- Ex-Faculty (Guest) in Dept of Geography (Postgraduate course), University of Kalyani, W.B, 2004 to 2007.

## Training Programmes

- Orientation Programme  
University of Calcutta, 24.07.2001 to 23.08.2001
- Refresher courses  
on Environmental Studies, 7.02.2004 to 28.02.2004 (Grade-A)  
on Environment and Law, 28.10.2004 – 18.11.2004 (very satisfactory)  
on Environmental Studies, 2.11.2004- 24.11.2004 (Grade-A)
- Workshops :  
Retraining (UGC sponsored) of college teachers under Potential for Excellence, Jadavpur University – Abatement of Environmental Pollution on 16.2.2007  
Methods of Environment and Climate Awareness (26 – 27.03.2007)
- IPCC Fifth Assessment Report (AR 5) Dissemination International Workshop organised by Global Change Programme-Jadavpur University (GCP-JU), WBPCB, Dept of Environment, Govt of WB, 9TH March, 2015
- “What India can learn from the history of environmental progress?”- Michael Shellenberger, a Time Magazine “Hero of the Environment”, Founder & President, Environmental Progress, USA, organized by Global Change Programme, Jadavpur University in collaboration with The Bengal Chamber of Commerce & Industry on 4th of March 2016 at The Bengal Chamber of Commerce & Industry, Kolkata.
- Workshop on Disaster Preparedness, funded by TEQIP-II, Jadavpur University organized by Department of Civil Engineering on 29th August, 2016 at Jadavpur University, Kolkata.
- One Day Workshop on CBCS Workshop on CBCS Syllabus in Geography Hons and a short demo on QGIS, Lady Brabourne College, 15th September, 2017.





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## Subjects Taught

Resource Studies, U.G level | Earth Science, P.G level | Geography, P.G level | Environmental Studies, U.G level

## Research Interests

Environmental Sciences | Earth Science | Marine Environment | Remote Sensing & GIS | Geography

## UGC Sponsored Minor Research Projects

- Title - Assessment of the impact of bottom trawling on the benthic communities off West Bengal, Date- 11.03.2010 to 10.09.2011.
- Title - Trawl induced environmental degradation in Bengal basin of Eastern Indian ocean, Date- 22.02.2017 to 22.02.2019.

## International Research Reviewer Assignments

- Research Reviews in SPRINGER NATURE :
- "ARE NATURAL DYES ECO-FRIENDLY? A case on water usage and wastewater characteristics of batik production by the application of natural dyes", 2.02.2017, Sustainable Water Resources Management, Springer,
- "ARE NATURAL DYES ECO-FRIENDLY? A case on water usage and wastewater characteristics of batik production by the application of natural dyes", 17.04.2017, Sustainable Water Resources Management, Springer (review of the edited paper)
- "ARE NATURAL DYES ECO-FRIENDLY? A case on water usage and wastewater characteristics of batik production by the application of natural dyes", 29.08.2017, Sustainable Water Resources Management, Springer (review of the edited paper)
- SWAM-D-18-00048, "Health risk analysis and proposal of improving in rural aqueducts of Costa Rica.", 18.07.18, Sustainable Water Resources Management, Springer, Nature. Editor-in-Chief: James W. LaMoreaux, ISSN: 2363-5037 (print version), ISSN: 2363-5045 (electronic version) Journal no. 40899
- SWAM-D-18-00048, "Health risk analysis and proposal of improving in rural aqueducts of Costa Rica.", 15.11.18, Sustainable Water Resources Management, Springer, Nature. (review of the edited paper)
- SWAM-D-18-00048R2, Risk study to human health due to infrastructure conditions and administration of rural aqueducts in Turrialba Cartago, Costa Rica.", 11.07.19, Sustainable Water Resources Management, Springer, Nature.





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- SWAM-D-18-00153R3, "Assessment of Wetlands and Land Use Land Cover Dynamics using Remote Sensing Imagery and GIS Techniques.", 29.7.20, Sustainable Water Resources Management, Springer, Nature
- SWAM-D-21-00108, "Necessities of the control of land-based marine pollution in Bangladesh: Impacts study with references a case study for possible measures", 16.06.21, Sustainable Water Resources Management, Springer Nature
- SWAM-D-21-00481 "Assessing the Impact of Municipal and Industrial Wastewater on Water Quality of River Yamuna in Delhi", 03.07.22, Sustainable Water Resources Management, Springer Nature
- SWAM-D-22-00433, Evaluation of the Effects of Heavy Metals on Water from Illegal Crude Oil Refineries: A Case Study of Three Selected Communities in the Niger Delta Region, Nigeria, 03.12.22, Sustainable Water Resources Management, Springer Nature

## Research Publications (Details Of Isbn/issn)

- International Research E-Book Publication :
- Ecological loss by bheri-culture in Sundarbans seeking sustainability, 2012, LAP-LAMBERT Academic Publishing, Germany, 978-3-659-18761-2.
- Biodiversity loss by trawl netting in West Bengal offshore, 2013, LAP-LAMBERT Academic Publishing, Germany, 978-3-659-31981-5.
- Published Articles in book :
- 'Impact of Bheri-culture on the environment of Sundarbans', Combating Disaster- Perspectives In The New Millennium, pg.185, 2005, ISBN-81-87500-29-8, acb publications, Calcutta, India.
- 'Changed mode of spawn collection continuing biodiversity loss at Freshergunj in coastal Sundarbans', Studies on pollution mitigation, pg.231, ISBN-978-81-920040-0-6, 2010, Central Pollution Control Board, New Delhi, India.
- 'Implications of trawling on marine ecosystem off West Bengal, Biodiversity, Utilisation and threats, pg.691-695, 2012, Narendra Publishing House. ISBN 10-9380428944
- "Trawl induced biotic and aquatic waste degrading marine environment in West Bengal offshore", Coherence, pg 102, ISBN 978-81-930092-8-4, The Bhawanipur Edn Society College, Kolkata. 2017



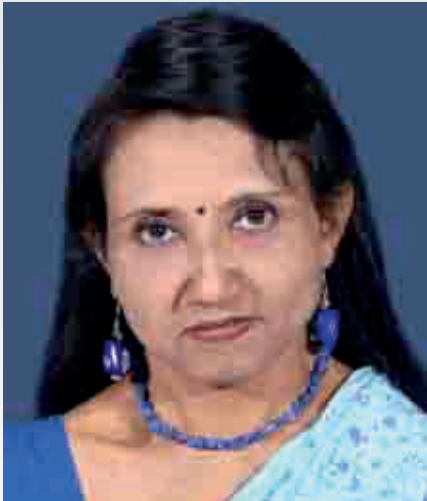


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- Published Articles in International journal :
- 'Impact of commercial coastal fishing on the environment of Sundarbans for sustainable development', Asian Fisheries Science, vol.22, Issue 1 March, 2009, Asian Fisheries Society, Putra Malaysia. ISSN no.0116-6514
- 'Destruction of spawns damaging mangrove ecosystem in coastal Sundarbans, pg.259-268, International Journal of Environmental Sciences, vol.1, 3rd issue, ISSN-0976-4534, 2010, National Environmental Science Academy, New Delhi, India.
- "Environmental impact of trawling on the continental shelf of Bay of Bengal", Sustainable Water Resources Management, Springer Nature, accepted on 30.05.18, published online on 5.08.2018. Editor-in-Chief: James W. LaMoreaux, ISSN: 2363-5037 (print version), ISSN: 2363-5045 (electronic version) Journal no. 40899
- Trawl induced biological and chemical degradation in Bengal Offshore , Sustainable Water Resources Management, Springer Nature, accepted and published online on 27.07.20. Editor-in-Chief: James W. LaMoreaux, ISSN: 2363-5037 (print version), ISSN: 2363-5045 (electronic version) Journal no. 40899
- Published articles in National Journal :
- 'Manas National Park : Environmental degradation, impact of tourism and prospect of eco-tourism', Tourism : Theory and practice, Tourism and nature issue, vol.7, no.2, pg.77, ISSN-0973-6611, 2009, Kolkata, India.
- 'Mangrove ecosystem degraded by spawn-killing in Sundarbans demanding sustainable development', Tourism: Theory and practice, Tourism and ethnicity issue, vol.10, no.2, pg.135, ISSN-0973-6611, 2012, Kolkata, India.
- Published abstract in International and National Journal Proceedings :
- 'Degradation.....Sundarbans', West Bengal State Sc. & Tech. Congress, 2002.
- 'Bheri.....biosphere', West Bengal State Sc.& Tech. Congress, 2003
- 'Impact of.....Sundarbans' at Krishnagar Govt. College, W.B, India, 2004
- 'Assessment of impact.....', 93rd Indian Sc. Congress, Hyderabad, India, 3-7th Jan, 2006
- 'Impact of..... Sundarbans', 94th Indian Sc. Congress, Visakhapatnam, 3-7th Jan, 2007
- 'Impact of.....development', 8th Asian Fisheries Forum, Ernakulam, Kerala, India, 2007





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- 'Ecological.....sustainability', 95th Indian Sc. Congress..... 3-7th Jan, 2008
- 'Menace of..... .. Sundarbans', 96th Indian Sc. Congress..... 3-7th Jan, 2009
- 'Changed mode of spawn.....', 97th Indian Sc. Congress..... 3-7th Jan, 2010
- 'Implications..... West Bengal', 1st Indian Biodiversity Congress, Kerala, India, 2010
- 'Commercial trawl.....', 98th Indian Sc. Congress..... 3-7th Jan, 2011.
- 'Ecological loss..... ', 99th Indian Sc. Congress, Bhubaneswar, Orissa, 3-7th Jan, 2012.
- "Disturbed benthic environment by bottom trawl in West Bengal offshore demanding sustainable development", 101th Indian Science Congress Proceedings, 3rd - 7th March, 2014, Jammu & Kashmir, India
- 'Disturbed benthic environment by bottom trawl in West Bengal offshore demanding sustainable development', Tropical Ecology Congress 2014, 10-12th December, 2014, JNU, New Delhi, India.
- "Bio-chemical degradation in marine ecosystem by trawl netting in West Bengal offshore", 102nd Indian Science Congress, 3-7th Jan, Mumbai University, 2015, Mumbai, India.
- " Trawling disturbance in the biochemical environment of Eastern Indian offshore", 103rd Indian Science Congress, 3-7th Jan, University of Mysore, 2016, Mysore, India
- "Biotic and aquatic marine degradation by trawl netting in West Bengal offshore", 104th Indian Science Congress, 3-7th January, 2017, Chennai, ,India.
- Bio-chemical degradation of the Bengal offshore environment by commercial Trawl fishing, 105th Indian Science Congress, 3-7th January, 2019, Punjab, ,India
- Degradation of largest estuarine mangrove and offshore ecosystem by trawl netting, 108th Indian Science Congress, 3-7th January, 2023, University of Nagpur, Nagpur, India

## Outstanding Lectures Given (International And National Level)

- 'Impact of..... development', 8th Asian Fisheries Forum, Ernakulam, Kerala,India, 2007
- 'Implications..... West Bengal', 1st Indian Biodiversity Congress, Kerala, India, 2010
- 'Disturbed benthic environment ..... development', Tropical Ecology Congress 2014, 10-12th December, 2014, JNU, New Delhi, India.





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## Papers Presented (National/International/State Level)

- 'Degradation....Sundarbans', State Sc.& Tech. Congress, 2002
- 'Bheri.....biosphere', State Sc. & Tech. Congress, 2003
- 'Impact of.....Sundarbans' at Krishnagar Govt. College, W.B, India, 2004
- 'Assessment of impact.....', 93rd Indian Sc. Congress, Hyderabad, India, 3-7th Jan, 2006
- 'Impact of..... Sundarbans', 94th Indian Sc. Congress, Visakhapatnam, 3-7th Jan, 2007
- 'Ecological.....sustainability', 95th Indian Sc. Congress. .... 3-7th Jan, 2008
- 'Menace of..... .. Sundarbans', 96th Indian Sc. Congress..... 3-7th Jan, 2009
- 'Changed mode of spawn.....', 97th Indian Sc. Congress..... 3-7th Jan, 2010
- 'Commercial trawl.....',98th Indian Sc. Congress..... 3-7th Jan, 2011.
- 'Ecological loss..... ', 99th Indian Sc. Congress, Bhubaneswar, Orissa, 3-7th Jan, 2012.
- 'Biodiversity..... offshore', 100th Indian Sc. Congress, Kolkata, 3-7th Jan, 2013
- "Marine environment.....sustainable development, 22.09.14, Faculty Development Cell, The Bhawanipur Edn Society College.
- 'Implications of trawling on marine ecosystem off West Bengal', 19.01.15, Environmental Development Committee, The Bhawanipur Edn Society College.
- "Trawl induced biotic and aquatic waste degrading marine environment in West Bengal offshore", 9.09.2016, UGC National Seminar, Environmental Development Committee, The Bhawanipur Edn. Society College
- "Degradation of largest estuarine mangrove and offshore ecosystem by trawl netting", 108th Indian Science Congress, 3-7th January, 2023, University of Nagpur, Nagpur, India





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## University Assignments (Examiner/ Scrutineer/Paper setter/Moderator)

Assignment	Examination	University	Year	Subject
Paper Setter	B.Com, Semester II,	Calcutta University	2019	Environmental Studies
Examiner	B.Com(Pt I - & Pt II) Exam	Calcutta University	since 1995	Economic Geography & Resource Studies
Examiner	B.Com( Pt III) Exam	Calcutta University	since 2000	Environmental Studies
Examiner	M.Sc(Geography) Pt-I Exam	Kalyani University	2004	Geography(Post-graduation)
Scrutineer	B.Com( Pt III) Exam Environmental Studies	Calcutta University	since 2000	Environmental Studies
Paper setter	M.Sc(Geography) Pt I Exam	Kalyani University	2004	Geography(Post-graduation)
Paper setter	B.Com. Semester-VI, CBCS, 2020	Calcutta University	2021	Environmental Studies
Paper setter	B.Com. Semester-VI, CBCS, 2021	Calcutta University	2021	AECC 6.1 ENVIRONMENTAL STUDIES (TH)
Officer-In-Charge	BA, BSc, BCom, BBA Examinations	Calcutta University	2022	CBCS EVEN SEMESTER, UNIV. OF CALCUTTA







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## COLLEGE ADMINISTRATIVE ASSIGNMENTS :

- OFFICER-IN-CHARGE, B.A. BSc, B.Com, BBA, Semester 2, 4, 6, University of Calcutta, 2022
- Member, NAAC SSR sub-committee, 2015 - (Criteria VII) Innovations and Best Practices, The Bhawanipur Education Society College
- Ex-Co-ordinator, Environmental Development Committee, The Bhawanipur Education Society College,
- Special Advisor, Environmental Development Committee, The Bhawanipur Education Society College, 2016 onwards
- Convenor, UGC sponsored National Seminar on Environmental Awareness : Demand of the Day, 9th & 10th September, 2016 in collaboration with Dept of Environmental Science, University of Calcutta
- Ex-Member, Research Committee, The Bhawanipur Education Society College
- Ex-Secretary, Teachers' Council, The Bhawanipur Education Society College
- Convenor, WBCUTA, Primary Unit, The Bhawanipur Education Society College
- Co-ordinator, Competitive Examination Committee.

## Research Award

- UGC Postdoc Research Award, 2012-2014  
Title - Effect of bottom trawling on benthic environment off Gangetic delta in West Bengal.  
Date - 1.03.2012 to 28.02.2014 (No.F 30-71/2011.SA-II)

## Membership Of Academic/Professional Bodies

- Attached to the Committee of Sivatosh Mookerjee Science Center, Kolkata, West Bengal
- Attached to S.D. Marine Biological Research Institute, Sagar Island, West Bengal.
- Life Member (Environmental Sciences), Indian Science Congress Association
- Executive Committee Member, WBCUTA, Primary unit, The Bhawanipur Edn Society College





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## Other Noticeable Information

- Scholarship obtained in Primary Final Examination, Director of Inspection (Primary School) 1975.

## Vision Statement

- Motivate students to become environmentally conscious in all their future actions irrespective of their professions to be chosen
- Indulge in their thought process towards the eco-friendly ideas
- Encourage them to retrieve knowledge on the global environmental issues
- Spread the sense of environmental awareness amongst them to be a completely successful Indian citizen

A rectangular box containing a handwritten signature in blue ink that reads "Mahua Das".

Signature of the  
Faculty Member

Date: 01st September, 2022



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