APURBA RATAN GHOSH

1. Name : Rtn. DR APURBA RATAN GHOSH

2. Father's name : Late Mahadeb Chandra Ghosh

3. Caste : General

4. Address

a) Mailing address : Dept. of Environmental Science

The University of Burdwan

Golapbag, Burdwan

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b) Permanent address : 67, Goda

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5. Present Designation : Professor

Department of Environmental Science

The University of Burdwan, Burdwan-713104, WB

&

Ex-Director IQAC & Ex-Director

UGC-Academic Staff College (presently HRDC) The University of Burdwan, Burdwan-713104, WB

Ex-Coordinator DST-FIST, GoI

6. Nature of Appointment : Permanent
7. Date of Birth : 24.11.1959
8. Marital Status : Married

9. E-mail : apurbaghosh2010@gmail.com/arghosh@envsc.buruniv.ac.in

VIDWAN INFO. ID- 195630

Link- https://vidwan.inflibnet.ac.in/profile/195630

Google Scholar Info. https://scholar.google.com/citations?user=UNULii0AAAAJ&hl=en

ORCID Info. ID- https://orcid.org/0000-0003-1454-7720

10. a. Educational Qualification:

- a) Bachelor of Science with Honors in Zoology passed in 1981 with High Second Class marks
- b) Master of Science with special paper in Fish & Fisheries passed in 1985 (session 1981-1983) with First Class
- c) Doctor of Philosophy in Science (Zoology) awarded in 1991



Thesis title: Arsenic and cadmium toxicity in the Alimentary canal and digestion of two Indian air-breathing teleosts *Notopterus notopterus* (Pallas) and *Heteropneustes fossilis* (Bloch)

d) Post Doctoral work on Toxicity of Cadmium and Arsenic on Ultrastructural level: SEM & TEM study

10.b. Professional Status

Sl.	Name of Post	Employer	Last basic pay	Nature of	Period with
No			drawn with scale	assignment	dates
1.	Asstt. Director	BU	2500/- pm (Fixed)	Ad-hoc	24.01.92-
					31.07.93
2.	Asstt. Director/	BU	2200-4000/- (Scale)	Lecturer	01.08.93-
	Lecturer				31.07.98
3.	Visiting Lecturer in	BU	Honorary	Guest	18.09.1996 to
	Zoology			Lecturer/	2004
				Part-time	
4.	Asstt. Director/	BU	3000-5000/-	Sr. Lecturer	01.08.98-
	Sr. Lecturer				27.12.99
5.	Lecturer in	BU	8000-13,500/-	Permanent	28.12.99
	Environmental Sc.				
6.	Asstt. Director	BU	Honorary	(Addl. Charge)	28.12.99-
	(Hon)				07.02.00
7.	Sr. Lecturer in	BU	10,000-15,200/-	Sr. Lecturer	(contd. From
	Environmental Sc.				01.08.98)
8.	Dy. Director UGC-	BU	Rs 1000/-	(Addl. Charge)	08.02.2000 to
	ASC				2009
9.	Reader in Env. Sc.	BU	12,000-420-	Permanent	01.08.02
			18,300/-		
10.	Guest Lecturer in	BU	Rs 100/- per lecture	Guest Lecturer	2003-2006
	Master of Business				
	Administration				
11.	Associate Professor	BU	16,400-450-	Permanent	1.08.2006
	in Env Sc.		22,400/-		
12.	Director (Professor)	BU	16,400-450-	Contractual	31.12.09-
	UGC-ASC		22,400/-	(Full time)	31.12.12
			(unrevised)		
13.	Professor – Env Sc.	BU	37,400-67,000/-	Permanent	01.07.2010
			(unrevised)		
14.	Director-IQAC	BU	Honorary	Addln. Charge	2014 -2016
15	Professor – Env Sc.	BU	37,400-67,000/-	Permanent	01.07.2010-
			(unrevised)		contd.

11. Research Experience: Since 1986 till date (Total 35 years)

- a) One year on Hydrobiology and Limnology under the Ganga Action Plan Project
- b) Three years as Junior Research Fellow working on Heavy Metal Toxicity
- c) Two years as Senior Research Fellow on the same project
- d) Post Doctoral Works on Toxicity of Cadmium and Arsenic in Ultrastructural Level, SEM study & TEM study till date

12. a. Editor of National Journals

- a) Member of Board of Editors "Environment and Ecoplanning"
- b) Member of Board of Editors "Pollution Research"
- c) Member of Board Editor of "Journal of Environmental Biology"
- d) Referee of "The Western Journal of Research"
- e) Member of Board Editor of "International Journal of Environmental Sciences and Research"
- f) Member of Board Editor of "Fisheries Sciences"

b. Editor of News Letter

- i) Chief Editors: News Letter "ACADEMY", Vol. 01 No. 01, 1997
- ii) Chief Editors: News Letter "ACADEMY", Vol. 02 No. 01, 1998
- iii) Board of Editors: News Letter "ACADEMY", Vol. 03 No. 01, 2002
- iv) Board of Editors: News Letter "ACADEMY", Vol. 04 No. 01, 2004
- v) Board of Editors: News Letter "ACADEMY", Vol. 05 No. 01, 2005
- vi) Board of Editors: News Letter "ACADEMY", Vol. 06 No. 01, 2007
- vii) Board of Editors: News Letter "ACADEMY", Vol. 07 No. 01, 2009

c. Editor: Books

- i) Education Environment and Society (1995)
- ii) Environment: Issues and Challenges Volume I (1999)
- iii) Environment: Issues and Challenges Volume II (2000)
- iv) Environment: Issues and Challenges Volume III (2010)
- v) Paribesh Bidya (book for UG studies) (2000)
- vi) Paribeshvidya (book for new syllabus of UG studies) (2012)
- vii) *Sustainable Aquaculture Practices*, 2022. Edited by Sukhendu Dey, Subhas Das & Apurba Ratan Ghosh. LAP LAMBERT Academic Publishing, Republic of Moldova, Europe. ISBN: 978-620-5-51712-3

d. Author: Books (Chapters)

i. Environmental Concerns, 2011; Agrobios (India); Editor Debabrata Das Gupta

- [ISBN No. (10): 81-7754-428-4; (13):978-81-7754-428-2]
- ii. Climate Change Man and Environment, 2012; Editor Goutam Kumar Saha [ISBN No. 978-81-7035-771-1]
- iii. Food and Environmental Security The Imperatives of Indigenous Knowledge Systems, 2013; Agrobios (India); Editor Debabrata Das Gupta [ISBN No. (13): 978-81-7754-509-8; (13):149-160]
- iv. Essential Concepts in Toxicology Compendium for Pharmacy, Medical, Forensic and Veterinary Toxicology, 2013; PharmaMed Press (India) Editor Prof. Dr. P K Gupta [ISBN No. 978-81-7800-319-1]
- v. Herbicide Toxicity on Fish: Emphasis on Glyphosate & Almix, 2013; LAP LAMBERT Academic Publishing, Author <u>Tarakeshwar Senapati</u>, <u>Apurba Ratan Ghosh</u> and <u>Palas Samanta</u>, [ISBN-10: 365946418X, ISBN-13: 978-3659464188]
- vi. Indian Wetlands: Crisis & options; 2015 Astral International Private Limited; Editor Prof. Goutam Kumar Saha [ISBN-978-93-5124-714-2]
- vii. Environmental Impact Assessment: A Case Study on East Kolkata Wetlands. Author A. R. Ghosh, S. Mondal, and D. Kole. Wastewater Management Through Aquaculture Editor B. B. Jana, R. N. Mandal and P. Jayasankar. [ISBN 978-981-10-7247-5 ISBN 978-981-10-7248-2] https://doi.org/10.1007/978-981-10-7248-2. Chapter 15
- viii. Laws and Regulations of Wastes and Wastewater: Indian Perspective. Author S. K. Sadhu and A. R. Ghosh. Wastewater Management Through Aquaculture Editor B. B. Jana, R. N. Mandal and P. Jayasankar. [ISBN 978-981-10-7247-5 ISBN 978-981-10-7248-2] https://doi.org/10.1007/978-981-10-7248-2. Chapter 16.
- ix. Dominative Activity On Social Media Of India And Bangladesh During COVID-19: Evidence Of A Scalable Accuracy Nose Invervention. Author: Sukhendu Dey, Sandipan Pal, Md. Yeamin Hossain, Tarakeshwar Senapati, Md. MOniruzzaman, Apurba Ratan Ghosh, Palas Samanta.[ISBN 978-620-4-19150-8]
- x. Practical Manual on Environmental Analysis (Training Manual). Editors- Apurba Ratan Ghosh, Srimanta Gupta, Naba Kumar Mondal, Sudipto Mandal and Shampa Dutta. [ISBN: 978-93-88069-72-4] Second Edition.
- xi. Chatterjee, P., Dey, S., Das, S., **Ghosh, A.R.** (2022). Pivotal Part of Probiotics in Aquaculture. In S. Dey, S. Das & A.R. Ghosh (Eds.). *Sustainable Aquaculture Practices*, 1(1): pp 5-21. LAP LAMBERT Academic Publishing. ISBN: 978-620-5-51712-3

xii. Saha, T., Das, S., Dey, S., **Ghosh, A.R.** (2022). Interference and Effect of Microplastic Pollution on Ocean Carbon Sequestration and Global Marine Carbon Circulation. In S. Dey, S. Das & A.R. Ghosh (Eds.). *Sustainable Aquaculture Practices*, 1(1): pp 37-50. LAP LAMBERT Academic Publishing. ISBN: 978-620-5-51712-3

e. Books Reviewed

- 1. Reviewer by McGraw-Hill Education (India) Pvt. Ltd. For the book "ECOLOGY" by Prof. M.C. Dash, 2007
- Reviewer by Tata McGraw-Hill Education (India) Pvt. Ltd. For the book "Principles of Environmental Science: Inquiry and Applications" by W.P. Cunningham & M.A. Cunningham, 2008
- 3. Reviewer by Sarat Impressions Pvt. Ltd. (Levant Books). For the book "Elements of Green Chemistry with Laboratory Experiments" by A.K. Das, 2014

f. Journal Paper Reviewed

- 1. Manuscript No.: MRN/688, Journal of Environmental Biology, 2011
- 2. Manuscript No.: MRN/389, Journal of Environmental Biology, 2013
- 3. Manuscript ID: LRE-13-049, Lakes & Reservoirs: Research and Management, 2013
- 4. Paper ID: 1660137, Open Journal of Soil Science, 2013
- 5. Manuscript No.: MRN/543, Journal of Environmental Biology, 2013
- 6. Manuscript No.: MRN/364, Journal of Environmental Biology, 2013
- 7. Environmental Vulnerability to climate change and anthropogenic impacts in dryland, (Pilot study: Middle Draa Valley, South Morocco), *Journal of Earth Science & Climatic Change*, 2014
- 8. Manuscript No.: PJSRE-14-005, Peak Journal of Scientific Research and Essays, 2014
- 9. Manuscript Number: JJBS 8\14, Jordan Journal of Biological Sciences, 2014
- 10. Manuscript Number: JJBS 78\14, Jordan Journal of Biological Sciences, 2014
- 11. Manuscript Number: 2014_BJAST_13034, British Journal of Applied Science & Technology, August, 2014
- 12. Manuscript Number: 17118-37697-4-RV.DOCX 2014-08-01/17118, *Indian Journal of Fisheries*, August, 2014
- 13. Manuscript ID: LRE-13-049, Lakes & Reservoirs: Research and Management, 2014
- 14. Manuscript Number: 43771-102968-2-RV, Indian Journal of Fisheries, 2014
- 15. Manuscript Number: 26264-57643-2-RV. Indian Journal of Fisheries, 2014

- 16. Ecotoxicology and Environmental Safety, 2016. Elsiver
- 17. Aquatic Toxicology, 2016. Elsiver.

13. AWARDS RECEIVED

- 1. Enlisted as one of the young scientists by John Willy Co. in the Field of Heavy Metal Toxicity
- 2. Fellow of Zoological Society of India, FZSI, since 1995
- 3. 'Man of the Year' 2002 by ABI Board of International Research
- 4. Member of the Confederation of Indian Industry (CII), since 2002
- 5. Honorary Fellowship: Fellow of International Society for Ecological Communications (FISEC), since 2007
- 6. Best presentation award from International Conference, 2011, World Lake Conference, Texas University, Texas
- 7. INSA Visiting Fellowship of the year 2013
- 8. TIFR Awarded Fellowship for the year 2013-14
- 9. Panel Expert in the session PE03 and Oral presentation (PE03) in IUAES Conference, 2013
- 10. CWSS Gold Medal Award 2019 (Best Research Contribution) by **Crop and Weed Science Society** under the umbrella of Bidhan Chandra Krishi Viswavidyalaya (BCKV)

14. RESEARCH PUBLICATIONS

Year 1989

1. Chakraborti, P. and Ghosh, A.R. 1989. Studies of Dysenzymia in the liver, pancreas, and kidney of cadmium treated fish, *Heteropneustes fossilis* (Bloch). Zool. Jb. Anat. **119** (3/4): 251-264

Year 1990

- 2. Chakraborti, P. and Ghosh, A.R. 1990. Fine anatomical structures of the different regions of the alimentary canal of *Heteropneustes fossilis* (Bloch) as revealed by Scanning Electron Microscopy. Z. Mikrosk. Anat. Forsch. **104** (**6S**): S. 955-968
- 3. Chakraborti, P. and Ghosh, A.R. 1990. Effects of Cadmium poisoning on mucopolysaccharides and some cellular enzymes of the alimentary canal in *Heteropneustes fossilis* (Bloch): A Histochemical study. Proc. Nat. Symp. Impacts of environment on Animals and Aquaculture. 215-222
- 4. Ghosh, A.R. and Chakraborti, P. 1990. Toxicity of arsenic and cadmium to a fresh-water fish, *Notopterus notopterus*. Environment and Ecology. **8 (2):** 576-579

Year 1991

- 5. Ghosh, A.R. and Mukherjee, A., and Chakraborty, P. 1991. Topological alterations in the mucosal surface of the alimentary canal of *Heteropneustes fossilis* (Bloch) during cadmium stress: A scanning electron microscopic study. Zool. Jb. Ant. **121:** 97-107
- 6. Ghosh, A.R. and Chakraborti, P. 1991. Effects of cadmium poisoning on some cellular enzymes in the stomach, intestine and intestinal caeca of *Notopterus notopterus* (Pallas): A Histochemical study. Proc. Nat. Symp. Freshwat. Aqua. 176-178
- 7. Ghosh, A.R. and Chakraborti, P. 1991. Arsenic induced topological alterations in the mucosal surface of stomach, intestine, intestinal caeca, and rectum of *Notopterus notopterus* (Pallas) and *Heteropneustes fossilis* (Bloch). Advances in Environmental Sciences and Technology. John Willey & Sons

Year 1992

8. Ghosh, A.R. and Chakrabarti, P. 1992: A scanning electorn microscopic probing into the cellular injury in the alimentary canal of *Notopterus notopterus* (Pallas) after cadmium intoxication. Ecotoxicology and Environmental Safety. **23:** 147-160

- 9. Chakraborti, P., Ghosh, A.R., and Mandal, D.K. 1993. A scanning electron microscopic examination of the mucosal epithelium of the alimentary canal of *Notopterus notopterus* (Pallas). Journal of Inland Fisheries Society of India. **25** (1): 7-15
- 10. Ghosh, A.R. and Chakraborti, P. 1993. Histopathological and histochemical changes in liver, pancreas and kidney of a freshwater teleost, *Heteropneustes fossilis* (Bloch) exposed to cadmium. Environment and Ecology. **11** (1): 185-188

11. Ghosh, A.R. and Chakraborti, P. 2001. Impacts of inorganic arsenic on mucosal surface of stomach, intestine and intestinal caeca of *notopterus notopterus* (pallas). Proceedings of the International Conference on Industrial Pollution and Control Technologies (ICIPACT). 469-473

Year 2004

- 12. Chakraborti, P. and Ghosh A.R. 2004. Cadmium induced alterations in the testes of freshwater teleost *Mystus vittatus* (Bloch) during growth maturation and spawning phases. Environment and Ecology. **22** (4): 763-768
- 13. Nagesh, T.S., Ghosh, A.R., Abraham, T.J., and Sasmal, D. 2004. Effect of physicochemical parameters on epicommensal fouling in sharimp systems of West Bengal. Environment and Ecology. **22** (3): 621-627
- 14. Nagesh, T.S., and Ghosh, A.R. 2004. Influence of Physico-chemical parameters on soft-shelling in shrimp farming systems of West Bengal. Indian Journal of Environment and Ecoplanning. **8 (2):** 123-128

Year 2005

- 15. Ghosh, A.R., Pal, S., and Mukherjee, A.K. 2005. Sustainability opportunity for potential aquaculture in OCPs as a post-mining land use for rural economic development in Raniganj Coalfield Areas. P.140-155. *In:* D. Khare, S. K. Mishra, S. K. Tripathi, G. Chauhan and N. Sharma (Ed) Recent advances in water resources development & management. Vol. I. Allied Publishers. New Delhi, India
- 16. Ghosh, A.R. and Chakraborti, P. 2005. Aquatic toxicology: Biological effects of heavy metals in fish. *In:* Environment Science and Thought. **2:** 40-49

- 17. Datta, S.K., Ghosh, A.R., and Kundu, R. 2006. Trade off between economic and environmental management of two fish production units in the Burdwan district of West Bengal. Environment and Ecology. **24** (1): 237-241
- 18. Ghosh, A.R., Chakraborti, P., and Pal, S. 2006. Impact of diesel oil effluent in the mucosal surface of the alimentary canal of *Oreochromis nilotica* (Linnaeus): A scanning electron microscopic study. Journal of Environmental Biology. **27** (1): 129-134
- 19. Some, N. and Ghosh. A.R. 2006. Role of edaphic factors and two heavy metals (zinc and copper) in the population fluctuation of soil arthropod fauna in areas adjacent to Tamla Nullah at Durgapur Industrial Complex. Environment and Ecology. **24** (4): 758-764

- 20. Bhattacharyya, A., Ghosh, A.R., Dutta, K.L., Datta, J.K., and Mukherjee, A. 2007. An ancillary 'Ecosystem' in Kunustoria underground mine: A glimpse. Journal of Ecobiology. **20** (**4**): 391-396
- 21. Gupta, S., Ghosh, A.R., Bandyopadhyay, S. and Chowdhury, S. 2007. Temporal change detection of the predefined forest cover of Burdwan district, West Bengal, India. GIS Development (online). www.gisdevelopment
- 22. Datta, S. K., Ghosh, A. R. and Kundu, R. 2007. Improper sewage treatment and contingent valuation for its improvement of a fishery unit in Burdwan District, West Bengal. Environment and Ecology. **25S** (2): 273-276
- 23. Ghosh, A.R., Pal, S., and Mukherjee, A.K. 2007. Chemical pollutants and its effects on fish physiology with special reference to accumulation, absorption and excretion. Journal of Environment and Sociobiology. **4** (1): 55-62

- 24. Sen, U. K. and Ghosh, A. R. 2008. Histological and ultramicroscopical alterations in the regions of gastrointestinal tract (GIT) of *Anabas testudineus* (Bloch) induced by cadmium chloride. Pollution Research. **27** (4): 699-703
- 25. Goswami, S., Dasgupta, M. and Ghosh. A.R. 2008. Fecundity of *Nandas nandus* (Hamilton) from the new alluvial zone of West Bengal. Journal of Interacdemicia. **12**: 8-18

- 26. Goswami, S., Dasgupta, M. and Ghosh. A.R. 2008. Length-weight relationshio and condition factor of *Nandus nandus* (Hamilton) from the new Alluvial Zone of West Bengal. Journal of Interacademicia. **12:** 24-35
- 27. Guha, R. and Ghosh, A. R. 2008. Distribution of arsenic concentrations in ground water in some villages of district Nadia, West Bengal. Environment and Ecology. **26** (**1A**): 407-410
- 28. Ghosh, A. R., Datta, K. Mukherjee, A., Pal, S. and Senapati, T. 2008. Impact of mining operation with special reference to water quality of Raniganj-Asansol Coal field areas. Accepted in the Proceedings of National Seminar, Talcher, Orissa
- 29. Satpati, S., Nayak, S., Ghosh, A. R. 2008. Effects of drain-off wastewater from sponge iron industry on water, sediment, aquatic macrophytes and plankton population of an opencast coal pit pond. Indian J. of Environment and Ecoplanning. **15** (3): 223-228

- 30. Nayak, S., Satpati, S., Ghosh, A. R. 2009. Impact of effluent of sponge iron industry on aquatic ecosystem with special emphasis on microanatomical alterations in gastrointestinal tract of *Channa punctatus* (Bloch). The Bioscan. **3 (1&2):** 35-40
- 31. Senapati, T., Mukherjee, A. K., and Ghosh, A. R. 2009. Observation on the effect of glyphosate based herbicide on ultra structure (SEM) and enzymatic activity in different regions of alimentary canal and gill of *Channa punctatus* (Bloch). Journal of Crop and weed. **5** (1): 236-245

- 32. Bhowmick, A., Ghosh. A. R., Banerjee, R., Mukherjee, A.K., Pal, S., and Senapati, T. 2010. Remediation of cadmium toxicity caused by EDTA and *Eichhornia crassipes* in the different regions of the alimentary canal of *Anabas testudineus* (Bloch): A scanning electron microscopic study. Asian Journal of Microbiology, Biotechnology and Environmental Scences. **12** (**4**): 835-843
- 33. Banerjee, R. and Ghosh, A. R. 2010. Occurrence of ground water arsenic contamination in rural areas of district Nadia, West Bengal. Ecology, Environment and Conservation. **16** (2): 221-227

- 34. Mukhopadyay, S., Pal, S., Mukherjee, A.K., and Ghosh, A.R. 2010. Ambient air quality in open cast coal mining areas of Bankola area (Under Eastern Coal Field Ltd.) of Asansol-Ranigang Regions. The Ecoscan. **4** (1): 19-24
- 35. Bairagya, C.N. and Ghosh, A.R. 2010. Chandra hatchery bundh-come-hatching pool: A new technology for fish spawn production. Fishing Chimes. **30** (6): 7-12
- 36. Sarkar, R. and Ghosh, A.R. 2010. Metanil yellow a food additive, induces the responses at cellular and sub-cellular organizations of stomach, intestine, liver, and kidney of *Heteropneustes fossilis* (Bloch). Pollution Research. **29** (3): 453-460
- 37. Banerjee, R. and Ghosh, A.R. 2010. Evaluation of surface water quality using factor analysis and the status of phytoplankton diversity of Barakar and Damodar Rivers, W.B., India. Pollution Research. **29** (4): 697-705
- 38. Samanta, P., Senapati, T., Mukherjee, A. K., Mondal, S., Haque, S., and Ghosh, A. R 2010. Effectiveness of almix in controlling aquatic weeds and fish growth and its consequent influence on water and sediment quality of a pond. The Bioscan. **3:** 691-700

- 39. Sarkar, R. and Ghosh A.R. 2011. Histochemical characterization of mucin in intestine and rectum of *Heteropneustes fossilis* (Bloch) induced by Metanil Yellow. The Ecoscan. **4 (4):** 297-300
- 40. Ghosh, A.R. 2011. Toxicology: some fundamental aspects. In 'Environmental Concerns' edited by Debabrata Das Gupta, Publ. Agrobios., Jodhpur, India, ISBN No. (10) 81-7754-428-4, pp. 155-184

- 41. Senapati, T., Mukherjee, A. K. and Ghosh, A. R. 2012. Observations on the effect of almix 20 wp herbicide on ultrastructure (SEM) in different regions of alimentary canal of *Anabas Testudineus* (Cuvier). International Journal of food, Agriculture and Veterinary Sciences. **2 (1):** 32-39
- 42. Pal, S., Kokushi, E., Koyama, J., Uno, S. and Ghosh, A.R. 2012. Histopathological alterations in gill, liver and kidney of common carp exposed to chlorpyrifos. Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Waste. 47 (3): 180-195

- 43. Ghosh, A.R. 2012: Coal mining and climate change: An environmental vista. *In* G.K. Saha (ed) Climate change Man and environment. Daya Publishing House, New Delhi, India. pp. 56–64
- 44. Sarkar, R. and Ghosh, A.R. 2012. Metanil yellow an azo dye induced histopathological and ultrastructural changes in albino rat (*Rattus norvegicus*). The Bioscan. **7 (1):** 427-432
- 45. Sarkar, R. and Ghosh, A. R. 2012. Toxicological effect of Metanil Yellow on the testis of albino rat. International Journal of Basic and Applied of Medical Sciences. **2** (2): 40-42
- 46. Dutta, K. and Ghosh, A.R. 2012. Comparative study of physicochemical parameters and heavy metals of some groundwater sources from Sukinda valley region in Odisha. The Ecoscan. **1:** 155-160
- 47. Ghosh, A.R. and Banerjee, R. 2012. Qualitative evaluation of the Damodar river water flowing over the coal mines and industrial area. International Journal of Scientific and Research Publications. 2 (10): 1-6
- 48. Banerjee, R. and Ghosh, A.R. 2012. Industrial effluents and their impact on water quality of receiving river: a study on the Damodar river system in West Bengal. International Journal of Engineering & Science Research. 2 (7): 669-676
- 49. Banerjee, R. and Ghosh, A.R. 2012. Assessment of physicochemical attributes of river Damodar from Barakar its upstream zone to Burdwan the downstream zone. International Journal of Current Research. **4 (05):** 026-031
- 50. Banerjee, R. and Ghosh, A.R. 2012. Evaluation of ecological characteristics of river Damodar adjacent to Asansol industrial complex, West Bengal. International Journal of Environmental Sciences. 2 (3): 1521-1530
- 51. Haque, S., Pal, S., Mukherjee, A.K. and Ghosh, A.R. 2012. Histopathological and ultramicroscopic changes induced by fluoride in soft tissue organs of the air-breathing teleost, *Channa punctatus* (Bloch). Fluoride. **43** (**3 Pt 2**): 263-273
- 52. Haque, S., Mondal, S. and Ghosh, A.R. 2012. Isolation and identification of diesel degrading microorganism from Barddhaman Loco Shed Pond, Burdwan, West Bengal, India. The Bioscan. **7 (4):** 719-722

53. Dutta, K. and Ghosh, A.R. 2013. Limnological status and bioconcentration of some heavy metals in Damsal Nala of Sukinda Valley region in Odisha and consequent

- histopathological lesions observed in liver and kidney of air-breathing fish *Channa* sp. The Ecoscan. **3:** 191-197
- 54. Chatterjee, S., Chhatri, M., Mukherjee, A. K., Senapati, T. and Ghosh, A. R. 2013. Study of physicochemical conditions of discarded diesel contaminated Locoshed pond near Burdwan locomotives of Burdwan, West Bengal. International Journal of Environmental Sciences. 3 (5): 1446-1456
- 55. Samanta, P., Mukherjee, A. K., Pal, S., Senapati, T., Mondal, S. and Ghosh, A. R. 2013. Major ion chemistry and water quality assessment of waterbodies at Golapbag area under Barddhaman Municipality of Burdwan District, West Bengal, India. International Journal of Environmental Sciences. 3 (6): 1954-1972
- 56. Dutta, K. And Ghosh, A. R. 2013. Comparative Study on Limnological Parameters and Bioconcentrations of Heavy Metals in an Air-breathing Carnivorous Teleostean Fish, *Gaducia* sp. Of the Upstream and Downstream Regions of Damsal Nala in Sukinda Valley Region, Odisha. International Journal of Environmental Sciences. **3** (6): 1831-1840
- 57. Dutta, K. And Ghosh, A. R. 2013. Analysis of Physico-chemical Characteristics and Metals in Water Sources of Chromite Mining in Sukinda Valley, Odisha, India. Journal of Environmental Biology. **34** (**4**): 783-788
- 58. Mukherjee, A. K., Pal, S., Senapati, T. and Ghosh, A. R. 2013. Ecofriendly Technology for Pisciculture in Abandoned OCP Lakes at RCF Areas, West Bengal, India. Agrobios (India): 149-160
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- 156. Dey, A. K., & Ghosh, A. R. (2023). ASSESSMENT OF WATER QUALITY PARAMETERS OF AN ABANDONED OPENCAST COAL PIT (OCP) OF ASANSOL-RANIGANJ COALFIELD (ARCF), PASCHIM BARDHAMAN, WEST BENGAL, INDIA. *Khulna University Studies*, 69-77.
- 157. Das, S., Dhara, K., Saha, N. C., & Ghosh, A. R. (2023). EXPOSURE UNDER CHOLINE CHLORIDE EXHIBITS SUCCESSFUL GONADAL MATURATION OF INDIAN MAJOR CARPS AND AIR-BREATHING TELEOSTS IN A SEMI-INTENSIVE PISCICULTURE SYSTEM: A HISTOTECHNOLOGICAL INTROSPECTION. *Khulna University Studies*, 58-68.

15. PROJECT/ RESEARCH SCHEME HANDLED

Title of the Project/ Scheme	Name of the Funding Agency	Minor/Major Project	Date of initiation and duration
1) Heavy metal toxicity affecting sexual maturity and reproduction of two indian freshwater teleosts, A testudineus and L. bata (Bloch) and effect of antidotes on these parameters	The University of Burdwan	Minor	2001
2) Seasonal changes in the activity of Pituitary and its interaction with gonadal function in brackish water teleost, <i>Etroplus suratensis</i> (Bloch)	The University of Burdwan	Minor	2002
3) Environmental and social impact analysis on sustainable aquaculture of opencast coal pits (OCPs) in Asansol-Raniganj Belt, West Bengal	University Grants Commission	Major (Rs. 6,06,600/-) F.30 - 103/2004 (SR) Date – 19.11.2004	2005 - 2008
4) Sustainable aquaculture in opencast coal pits in Asansol-Raniganj Belt, Burdwan, West Bengal	Indian Council of Agricultural Research	Major (Rs. 6,41,040/-) F.No. 4 (68)/2004-ASR-I Date – 31.08.2005	2006 - 2008
5) Ecomonitoring and management of river Damador from its upstream zone of Barakar up to Burdwan, the downstream zone	WB State Pollution Control Board	Major (Rs. 9,24,800/-) Memo No. 37/2K - 2/2008 Date – 02.04.2008	2008 - 2011
6) Air-breathing fish culture in opencast coal pits at Raniganj coal field areas		Minor (Rs. 10,000/-) Date – 18.05.2008	2008 - 2009
7) Impact of diesel oil pollution on freshwater aquaculture and its possible bioremediation by microorganism	MoEF	Major (Rs. 18,00,000/-) F.No. 19-69/2007/RE Date – 10.11.2008	2009 - 2012
8) Environmental quality assessment of sewage water and fish health and captive breeding of endanger species in sewage fed East Kolkata Wetland (EKWL)	UGC	Major (Rs. 9,58,509/-) F.No. 37-386/2009 (SR) Date – 11.01.2010	2010 - 2013

9) Hands - on - training on histotechnology and enzymological techniques for clinical analytical laboratory	DST, GoWB	Training Scheme & Workshop	2010
10) INSPIRE INTERNSHIP Program Summer Camp	DST, GoI	Training Scheme (Rs 7,00,000.00) SR/INSPIRE/2010 Date - 19.05.2011	2011
11) Hands - on - training on quality standardization in air and water including detection of radioactivity in aquatic medium and plant body	DST, GoWB	Training Scheme & Workshop	2012
12) INSPIRE INTERNSHIP Program Summer Camp	DST, GoI	Training Scheme (Rs 9,00,000.00) INSPIRE INTERNSHIP/2012 Sl.no. 1036 Date - 05-06.06.12	2012
13) Environmental monitoring of sewage water and captive fish breeding of endanger species in East Kolkata Wetland (EKWL)	Wetland Committee. GoWB	Major Project	Submitted
14) INSPIRE INTERNSHIP Program Summer Camp	DST, GoI	Training Scheme (Rs 9,75,000.00) INSPIRE INTERNSHIP/2012 Date - 03.04.2013	2013
15) INSPIRE INTERNSHIP Program Summer Camp	DST, GoI	Training Scheme (Rs 13,00,000.00) DST/INSPIRE 01/2014/000810 Date - 18.06.2014	2014
16) Workshop for Academic Administrators	NAAC, GoI	Workshop (Rs 2,00,000.00) Do. No. F. 24- 4/Nqri/DS/2014/10873 Date – 18.09.20114	2014
17) INSPIRE INTERNSHIP Program Summer Camp	DST, GoI	Training Scheme & Workshop (Rs 13,00,000.00) DST/INSPIRE INTERNSHIP/2015 Date - 01.09.2015	2015
18) Hands - on - training on	DST, GoWB	Training Scheme &	2016

Quality Standardization In Air & Water Including Detection Of Histo- technological		Workshop (Rs 75,000/-) (vide Memo No.	
Parameters		1085(Sanc.)/ST/P/S & T/5G- 2/2016 dt. 25/02/2016,	
		Demand No. 48, Financial	
		Year 2015 – '16)	
19) Bioremediation of	GoWB DST &	Memo No. 172	2018-19
polycyclic aromatic	Biotechnology	(Sanc.)/ST/P/S&T/5G-	
hydrocarbons (PAHs)-		18/2018 dt 13.02.2019 for 3	
contamination at Digha Coastal		yr	
Water (West Bengal)		Rs 9,16,300/-	
20) Evaluation of available		UGC-DAE-CSR-	2018-19
trace elements and methane	Kolkata Centre	KC/CRS/19/TE05/1071/1087	
emission from OCP at Raniganj		3 yr	
Asansol Coal field areas,		Rs 10,80,800/-	
Paschim Bardhaman			
21) Improvement of small	GoWB, Fisheries	3 yr	2018-19
indigenous fish stock: Its	Department	Under process	
nutritive value & biodiversity		Rs 19,28,000/-	
conservation in West Bengal			
22)Workshop on 'Biomolecular	DSTBT, Govt. of		2022
techniques of waste	West Bengal		
valorization'			

16. M. PHIL GUIDE

Sl No.	Name of the Students	Title of the Work	Supervisor (Single/Joint)	Year
1	Uttam K Sen	Cadmium induced effects on alimentary canal of one indian air-breathing teleosts, <i>Anabas testudineus</i> (Bloch)	Single	2000
2	Mithu Choudhuri	Cadmium induced histopathological alterations in the testes and ovaries on one Indian airbreathing teleost, <i>Anabas testudineus</i> (Bloch)	Single	2002
3	Baishali Sarkar	Histological and histochemical studies on the Stomach and liver of <i>Anabas testudineus</i> (Bloch), <i>Oreochromis nilotica</i> (Linnaeus), <i>Rastrelliger kanagurta</i> (Cuvier) and <i>Pampus argenteus</i> (Euphrasen): A comparative study	Single	2001
4	Gargi Mitra	Arsenic induced toxicity in the alimentary canal of freshwater siluriod fish, <i>Mystus vittatus</i> (Bloch)	Single	2002
5	Swapna Ghosh	Ultrastructural modifications in the alimentary canals of <i>Oreochromis nilotica</i> (Linnaeus), <i>Macrognathus aculeatus</i> (Pallas) and <i>Mystus vittatus</i> (Bloch)	Single	2002
6	Sandipan Pal	Impact of diesel pollution on aquaculture practices in Barddhaman Loco Tank with special emphasis on histopathological (ultrastructural) effect in gill and alimentary canal of <i>Orechromis nilotica</i> (Linnaeus)	Single	2004
7	Tarakeshwar Senapati	Influence of glyphosate in histological, histochemical and enzymological changes in gill and different regions of alimentary canal of <i>Channa punctatus</i> (Bloch)	Single	2008
8	Rituparna Sarkar	Metanil yellow toxicity induces histopathological, histochemical and biochemical changes in different organ systems of <i>Heteropneustes fossilis</i> (Bloch)	Single	2008
9	Lahari Sarkar	Histipathological and ultrastructural changes in the digestive system of <i>Oreochromis nilotica</i> (linn) in diesel-fed pond, Barddhaman Locotank	Single	2010

10	Koushik Dutta	Chromite mining: A threat to the aquatic environment of Sukinda Valley Region in Orissa	Single	2010
11	Subhamita Chatterjee	Study on comparative toxicosis of chromium at different exposure periods on <i>Anabas testudinius</i> (Bloch)	Single	2011
12	Dipanjana Deb	Study on histobiochemical alterations in different fish tissues due to acute toxicity by arsenic trioxide on <i>Channa punctatus</i> (Bloch)	Single	2011
13	Niladri Sekhar Mondal	Comparative Assessment of effects of chromite mining drainage in the upstream and downstream zone of Damsal Nala in Sukinda Valley region, Odisha	Single	2017
14	Sheweta Ghosh Moulick	Interaction and efficacy of Nanomaterials in removing metal toxicity from fish.	Single	2021.
15.	Megha Santra	Naphthalene and Anthracene (PAHs) Toxicosis and Subsequent Recovery by Humic Feed-O-Fert: Haematological, Histological and Bioenzymological Investigations	Single	2022

17. PH.D GUIDE

	Students	Title of the Work	Supervisor (Single/Joint)	Year
2	T. S. Nagesh	Studies on non-infectious diseases of	Single	Awarded
2		cultured shrimps in West Bengal		2006
2	S. Goswami	Biology and ecology of Nandus nandus	Joint	Awarded
		(Ham) from the new alluvial zone of West Bengal with special reference to ex-situ conservation		2008
3	Nandini Some	Distribution and density of soil arthropod in	Single	Awarded
		the sampling sites adjacent to Tamla Nullah in Durgapur Industrial Complex		2010
4	Sandipan Pal	Studies on ecological restoration and	Single	Awarded
		environmental impact analysis of some abandoned opencast coal pits of Raniganj Coal Field		2012
	Aloke K.	Study on feasibility of fish culture in	Single	Awarded
	Mukherjee	opencast coal pits in Asansol-Raniganj Coal Belt, West Bengal, India		2013
6	Ruma Banerjee	Hydrobiological status, thematic zonations and ecomonitoring of the river Damodar from Barakar to Burdwan, West Bengal, India	Single	Awarded 2013
7	Tarakeshwar	Effect of two herbicides glyphosate and	Single	Awarded
	Senapati	almix on different organs of <i>Channa</i> punctatus (Bloch), <i>Anabas testudeneus</i> (Cuiver)		2013
I I	Rituparna	Study on chronic toxicity of metanil yellow	Single	Awarded
	Sarkar	both teleostean cat fish Heteropneustes fossilis (Bloch) and albino rat (Rattus norvegicus)		2013
9	Koushik Dutta	Impact of chromite contamination in the ground water, surface water, and bottom	Single	Awarded 2014

		sediment of Damsal Nala of Sukinda Valley Region in Orissa		
10	Smaranya Haque	Effect of diesel oil pollution on freshwater aquaculture and its possible bioremediation by microorganisms	Single	Awarded 2014
11	Subinoy Mondal	Environmental quality assessment of sewage-water and fish health and captive breeding of endangered fish species in sewage-feed East Kolkata Wetland (EKWL)	Single	Awarded 2015
12	Palas Samanta	Evaluation of Pathological Biomarkers and Genotoxicity in Different Fish Species like <i>Anabas testudineus</i> (Bloch), <i>Heteropneustes fossilis</i> (Bloch), and <i>Oreochromis niloticus</i> (Lin.) under the Long-term Exposure of Two Herbicides, Almix and Glyphosate	Single	Awarded, 2015
13	Amarnath Shit	Influence of Limnological Parameters with Special Reference to Hardness and Alkalinity on Fish Breeding	Single	Awarded 2015
14	Debraj Kole	Comparative Toxicity of Arsenic (As) and Chromium (Cr) on <i>Channa punctatus</i> (Bloch) and <i>Anabas testudineus</i> (Bloch): Histopatho-logical and Biochemical Approaches	Single	Awarded 2018
15	Sabyasachi Mukhopadhyay	Ambient air quality monitoring and its impact on vegetation under the areas of asansol-durgapur development authority (ADDA)	Single	Awarded 2018
16	Lahari Sarkar	Study on Diesel Oil Pollution in Fresh Water Ecosystem at Barddhaman Locotank, Burdwan, W.B.	Single	Registered
17	Sudipta Biswas	Chronic Toxicity of Heavy Metals Zinc and Lead on Endocrine Glands in Teleostean Fishes	Single	Awarded 2019
18	Santu Ghosh	Study of Toxicological Dynamics of Cadmium and Lead in Freshwater Mussel (<i>Lamellidens sp.</i>) Through Simulation Modelling.	Joint	Awarded 2019
19	Arnab Mandal	Study of Ferterra (Insecticides) and Subsequent Recovery by Choline on Teleostean Fish.	Single	Awarded 2020
20	Sukhendu Dey	Evaluation of Chronic Toxicity through Bioaccumulation Kinetics and Bioconcentration Factor of Naphthalene and Anthracene (PAHs) in an Air-breathing Fish Species	Single	Awarded 2020

21	Subhas Das	Competitive Efficacy of Choline Chloride as	Single	Awarded
		Growth Promoter in Indian Major Carps and Air-breathing Teleosts		2021
22	Niladri Sekhar Mondal	Impacts of Chromium from Damsal Nala Carrying Drainage of Sukinda Chromite Mining on Fish And Metallodynamics on One Major Crop, Paddy	Single	Awarded 2023
23	Arghya Mondal	Dose-Response and Time-Dependent Study of Ultraviolet Radiation (UVR) on Different Developmental Stages of Indian Major Carps (IMC) and Catfish	Single	Awarded 2022
24	Atanu Patra	A Study on Some Polycyclic Aromatic Hydrocarbons (PAHs)-Contamination in Selected Sites of Fishing Harbour Zones at Digha Coastal Belt	Single	Awarded 2023
25	Amit K De	Impact of Trace and Potentially Toxic Elements on Sustainable Fish Culture Considering Human Health Risk Assessment in Opencast Coal Pits of Raniganj Coalfield Areas	Single	Registered 2021
26	Tulika Saha	Microplastics Contamination and their Effects on Freshwater Fish under Laboratory Condition	Joint	Registered 2021
27	Sugata Das	Application of Biochar and Macrophyte Jussiaea Repens L. (1753) for Removal of Cadmium from an Air-Breathing Teleost Heteropneustes Fossilis (Bloch, 1794)	Single	Registered 2022

18. SCIENTIFIC & POPULAR ARTICLES

- 1. Ghosh, A.R. (1989): Prasanga: Camera and Photography, 1989
- 2. Ghosh, A.R. (1990): Cadmium *O* Paribesh. *Jhan-O-Bijnan*. Bangiya Bijnan Parisad. 43(2): 66-68. February, 1990
- 3. Ghosh, A.R. (1990): Fisheries Research and Extension Service, 1990
- 4. Ghosh, A.R. (2001a): Waste and Environment. *Pursuit A Technical Magazine* of UIT, BU, 32-35, 2001
- 5. Ghosh, A.R. (2001b): Environment and Social Consciousness, *Bharat Vidya*, (1): 138-141, 2001
- 6. Ghosh, A.R. (2001): Baribesh O Paribesh Bhavna. *Dharabahik*, 2001

- 7. Ghosh, A.R. (2002): Paribesh O Manushya Sristh Bajya Padhartha. *Sasthya O Manush*, 2002
- 8. Ghosh, A.R. (2003): E-Waste. *ENVIRONICA*, 2003
- 9. Ghosh, A.R. (2003): Industrial Growth and Environmental Degradation. ENVIRONICA, 2003
- 10. Ghosh, A.R. (2005): Diesel toxicity. ENVIRONICA, 2005
- 11. Ghosh, A.R. (2006): Tsumani what and why. Yogsutra, 2006
- 12. Ghosh, A.R. (2006): Aquatic Toxicology in Eyes of Fish. *ENVIRONICA*, 2006
- 13. Ghosh, A.R. (2008): Global Warming: *Ekti Samiksha* [Global Warming: An Analysis]. *Anubhuti*, 2008
- 14. Ghosh, A.R. (2008): Paribesher Vivartan O Ruprekha, Sashtya O Manus, 2008
- 15. Ghosh, A.R. (2008): "CO₂ Kick the Habit! Towards Low Carbon Economy". *Natun Chitti*, 2008

19. WORKSHOP ATTENDED FOR ADVANCED TRAINING

- 1. Sixth Orientation Programme, 04.03.1992 to 31.03.1992, at ASC BU
- 2. Second RC in Zoology, 25.10.1991 to 14.11.1991, ASC BU
- 3. UGC Computer Training Programme, 12.05.1997 to 24.05.1997 at Physics Department
- 4. Training on Computer Science & Its Application. 02.05.1992 to 22.05.1992 at ASC BU
- 5. Attended all India Directors' Conferences at New Delhi (1994); Vishakapattanam (1996); Pondicherry (1998); NIEPA (1999); Jabalpur (2001); Mysore (2003); New Delhi, CEC (2005) & Hyderabad (2006); University of Kerala (2009)
- 6. Attended Pilot Refresher Course in IT at ASC Jadavpur University from 8th September to 27th September, 2003
- 7. Attended 55th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes held on and from October 29 to November 06, 2004
- 8. Attended one-day CII-RFI TERI Regional Workshop on "Developing CDM Projects in India" held in Taj Bengal, Kolkata on May 05, 2004
- Participated in the workshop entitled on "Quantitative Techniques for Research Workers" organized by Dept. of Statistics, The University of Burdwan & Indian Association for Productivity Quality & Reliability from 24th 26th August, 2006

- 10. Participated in the two day UGC-sponsored National Seminar organized by Centre for Interdisciplinary Studies (CIS) on Social Exclusion and Empowerment: A Multidisciplinary approach on 28 and 29th May, 2007, held at Science Centre, Auditorium, Golapbag, BU
- 11. Participated in the Two-day Workshop on "Learning Objects: Design, Development & Dissemination" organized by Directorate of Distance Education, The University of Burdwan in Collaboration with Distance Education Council, New Delhi on 24 25 June, 2008
- 12. Participated in the Two-day "National Workshop on Role of Academic Staff Colleges in Improving Quality of Teachers in Higher Education" March 16 − 17, 2010 organised by the Department of Higher and Professional Education NUEPA, New Delhi
- 13. Participated in the training workshop on Air Quality Monitoring organized by Ministry of Environment and Forest in collaboration with EU-India Action Plan Support Facility Environment-Technical Assistance at Fortune Loudon Kolkata, Kolkata on 3rd and 4th February, 2011
- 14. Participated in the Workshop organized by the NAAC at Bangalore during 8-9 September, 2011
- 15. Participated in the 2nd Workshop for the organizers of DST-INSPIRE Science camp organized by Department of Science and Technology, GoI at YASHADA, Pune on 13th and 14th April, 2012
- 16. Participated in the 1st Workshop on E-Content (Environmental Science) organized by University of Delhi (South Campus) on 10th November, 2012
- 17. Participated in the 3rd Workshop for the organizers of DST-INSPIRE Science camp organized by Pondichery University, Brookashabad Campas and Department of Science and Technology, GoI at Port Blair, A & N Islands on 11th and 12th April, 2013
- 18. Participated in the Workshop on "Establishing Teaching Learning Centres in Higher Education" organized by National University of Educational Planning and Administration, New Delhi during 26th 29th November, 2013
- 19. Participated in the National Meet for organizers Of INSPIRE Internship Camps 2014 under the INSPIRE Internship Component of INSPIRE program organized by KIIT

- University, Bhubaneswar and supported by Department of Science and Technology, GoI at KIIT University on 29th and 30th May, 2014
- 20. Participated in the Workshop on "Mother Earth: Save It to Achieve a Sustainable Future foe All" organized by Dept. of Environmental Science, The University of Burdwan, Burdwan during 10th 12th December, 2014
- 21. Participated as a Resource Person in the Workshop on "Quality in Higher Education: The role of Accrediation" organized by Burdwan Raj College on 6th September 2016.
- 22. Participated as a Resource Person in the Workshop on" Challenges of Higher Education in Contemporary India: Role of NAAC/IQAC in Quality Assurance" organized by Internal Quality Assurance Cell (IQAC), Sailajananda Falguni Smriti Mahavidyalaya, Khayrasole, Birbhum, during 7th December, 2016.

20. SEMINAR AND SYMPOSIUM ATTENDED

- 1. Attended and presented paper in the "National Symposium on Environmental impacts on animals and aquaculture" held at Kalyani (May 14-16, 1988) "Effects of cadmium poisoning on mucopolysaccharides and some cellular enzymes of the Alimentary canal in *Heteropneustes fossilis* (Bloch): A histochemical study"
- 2. Attended and presented paper in the National symposium on modern trends in Environmental Biology and seminar on environment and animal life held at Ramakrishna Mission Vivekananda Centenary College (Febuary 6-8, 1989) "Histopathological and histochemical sequels of cadmium intoxication in liver, pancreas, and kidney of a freshwater Teleost, *Heteropneustes fossilis* (Bloch)"
- 3. Attended and presented paper in the National Seminar on Role of young scientists in National development held at Modinagar (September 14-18, 1989) "Topological alterations in the mucosal surface of the alimentary canal of *Heteropneustes fossilis* (Bloch) during cadmium stress: A Scanning Electron Microscopic Study"
- 4. Attended and presented paper in the National Seminar on Recent Advance in Zoological Researches for Human Welfare (Sponsored by University of Burdwan, C.S.I.R.) held at Zoology Department, University of Burdwan (September 20-22, 1990) "A scanning electron microscopic probing into the cellular injury in the alimentary canal of *Notopterus notopterus* (Pallas) after cadmium intoxication"

- 5. Paper presented in the National Sympsium on "New Horizons in freshwater Aquaculture" at Kausalyaganga, Bhubenaswer "Effects of cadmium poisoning on some cellular enzymes in the stomach, intestine and intestinal caeca of *Notopterus notopterus* (Pallas): A histochemical study"
- 6. Invited for Paper presenting in the International Conference on Industrial Pollution and Control Technologies on 7th, 8th, and 10th December, 2001 at Hyderabad. Paper published on "Impacts of inorganic arsenic on mucosal surface of stomach, intestine and intestinal caeca on *Notopterus notopterus* (Pallas)"
- 7. Invited as Special Guest in Two-day Seminar on Intellectual Property Rights at GC College, Silchar, Assam. The Paper entitled "Economic impact of environmental measures and sustainable industrialization on 28 & 29 October, 2002 was presented on 28th October, 2002
- 8. Invited for presenting paper in the International Conference on Environment and Development, Science City, Kolkata. The paper entitled "Histopathological changes in Liver, pancreas and ultrastructural alterations in gill of *Oreochromis nilotica* (Linnaeus) exposed to diesel oil as an effuent" on February 04 to 08, 2004 organised by Institute of Social Studies, Kolkata in collaboration with Govt. of West Bengal and Govt. of India
- 9. Abstract of paper accepted in the International conference on Environment and Development, Science City, Kolkata. The paper entitled "Effects of diesel oil pollution in alimentary canal of *Oreochromis nilotica* (Linnaeus) with special reference to topological alterations" on February 04 to 08, 2004 organised by Institute of Social Studies, Kolkata in collaboration with Govt. of West Bengal and Govt. of India
- 10. Abstract of paper accepted in the International conference on Environment and Development, Science City, Kolkata. The paper entitled "Cadmium toxicity induce ultrastructural alterations in the alimentary canal of Indian air-breathing teleost, *Anabas testudineus* (Bloch)" on February 04 to 08, 2004 organised by Institute of Social Studies, Kolkata in collaboration with Govt. of West Bengal and Govt. of India
- 11. Abstract of paper accepted in the International conference on Environment congress. The paper entitled "Lead intoxication induce alterations in the mucosal epithelium of alimentary canal of *Oreochromis nilotica* (Linneaus): A scanning electron microscopic study" on December 16 to 18, 2004 coordinated by Centre for Environment and Development,

- sponsored by Kerala State Council for Science, Technology and Engironment and Tokyo engineering Consultants Co. Ltd., Tokyo, Japan
- 12. Abstract of paper accepted in the International conference on 'Molecules to Man'. The paper entitled "Ultramicroscopic alterations on the alimentary canal of *Channa marulius* (Hamilton) due to effects of effluents generated by sponge iron industry" on February 24 to 26, 2006, organised by Department of Zoology, The University of Burdwan in collaboration with the Zoological Association of Burdwan
- 13. State Level Seminar on Organized by: Bankura Christian College, on 25-26th September 2006. Title of the paper "Influence of water and soil quality on the emergence of aquatic vegetation in the water bodies of opencast coal pits in the Raniganj Coalfield Areas"
- 14. International symposium on The Challenges and Strategies for the Sustainability of Safe Drinking Water, organized by Dept. of Chemistry, Gandhigram Rural Institute, India, on 25 to 27th October, 2006. Title of the paper "Study of water quality parameters and fish health as the monitoring techniques for potential beneficial end use of water of abandoned opencast coal pits in Raniganj Coalfield Areas"
- 15. National Seminar on Retrospective Effect on Green Revolution, organized by Shyamsundar College, Shyamsundar, Burdwan, West Bengal, India, on 28-29th November, 2006. Title of the paper "Possibility of pisciculture in the water of old opencast coal pits in Raniganj Coalfield Areas"
- 16. Attended State Level Seminar on "Modern trend in Ecotoxicological Research and Human Welfare" and presenting a paper on "Influence of water and soil quality on the emergence of aquatic vegetation in the waterbodies of opencast coal pits in the Raniganj Coalfield Areas", 2006
- 17. Attended and abstract of paper accepted on "Histopathological and ultramicroscopial alterations induce by sodium fluoride in the different tissues of an air-breathing teleost, *Channa punctatus* (Bloch)" in the International Conference on "Ecotoxicology & Environmental Sciences", 2007
- 18. Attended and paper of abstract accepted entitled on "Metanil yellow, a food additive induce the responses at cellular and sub-cellular organisations in *Heteropneustes fossilis* (Bloch)" in the international conference on Ecotoxicology & Environmental Sciences organized by Institute of Ecotoxicology and Environmental Sciences, Jadavpur University, Kolkata, 2007

- 19. Invited for presenting paper in the National Seminar, entitled "Resource utilization in environmental degradation: An impact study in coal mining industry" in the UGC sponsored National Seminar on Environmental Degradation and Impact assessment in mining & Industrial areas held on 25 & 26th March, 2008 at Talcher College, Talcher, Orissa
- 20. Abstract of paper accepted and presenting paper in the 14th World Lake conference on "Thermal stratification an ecological tool for studying the process of ecological restoration in abandoned opencast coalfield areas, West Bengal, India" on 31 October –November 4, 2011, held in Austin, Texas
- 21. Invited for presenting Lead paper in the National Seminar entitled "Ecology, Environment and Development (NASEED–2013)" on "Limnological status and bioconcentration of some heavy metals in Damsal Nala of Sukinda Valley region in Odisha and consequent histopathological lesions observed in liver and kidney of air-breathing fish *Channa* sp." held on 25 to 27th January 2013 at Sambalpur, Orissa
- 22. Abstract of paper accepted and presenting paper in IUAES Conference 2013, on "Ecofriendly technology for pisciculture in abandoned OCP lakes at RCF Areas, West Bengal, India" held during 5 10 August, 2013 at University of Manchester, UK
- 23. Abstract of paper accepted and presenting paper in 6th Annual World Congress of Enzyme and Biocatalysis (SEB-2015), on "Toxicosis of Glyphosate-based Herbicide, Excel Mera 71 on Biochemical Enzymes and Histological Structure in Freshwater Teleostean Fishes and Subsequent Recovery Response under Liv. 52" held during 25-28 April, 2015 at Nanjing, China.
- 24. Abstract of paper accepted and presenting paper in "ARC Conference 2018: Resilience and New Leadership in the WORLD" held during 27-28 November, 2018 at Seoul, Korea University, Korea.
- 25. Attended "Mobile Science Exhibition on Earth Ganga on 02.03.2023

21. INVITED LECTURES / POPULAR SCIENTIFIC TALK

a. Name of Academic Staff College/ RCC where delivered Lecture(s) as a Resource person:

- 1. Delivered lectures in 48th & 49th Orientation Programme at Calcutta University, Academic Staff College on September, 2001
- 2. Delivered lectures in 1st, 2nd, 3rd RC in Environmental Science at ASC-BU

- 3. Delivered lectures in 37th & 38th OPs at ASC-BU
- 4. Delivered lectures in 4th, 7th RC in Environmental Science at ASC-BU
- 5. Delivered lectures in 11th, 12th, 13th RC in Environmental Science at ASC-BU
- 6. Delivered lecture in 14th RC in Zoology at ASC-BU
- 7. Delivered lecture in 1st RC in Life Science at ASC-BU
- 8. Delivered lecture in 2nd RC in Biochemical Science at ASC-BU
- 9. Delivered lecture in 5th RC in Environmental Studies at ASC-BU
- 10. Delivered lectures in 67th OP organized by UGC-Academic Staff College, Gorakhpur University on 20th and 21st November, 2006
- 11. Delivered lecture in RC on "Environmental Issues and Its Modulation" held at Kalyani University, organized jointly by Departments of Chemistry, Zoology, Botany and Environmental Science from January 2 to 22, 2007
- 12. Delivered lecture in RC on Environmental Studies conducted by UGC-Academic Staff College, Sambalpur University during January 23 to February 12, 2008; delivered on 24 & 25th January 2008
- 13. Delivered lectures in First RC in Environmental Studies conducted by UGC-Academic Staff College, DU Gorakhpur University during December 31 to January 20, 2010; delivered on 1 & 2nd January 2010
- 14. Delivered lectures in OP 92 & RC 187 on Environmental Education conducted by Smt C R Gardi UGC-Academic Staff College, Saurashtra University, Rajkot during March 7 to April 04, 11 and March 3 to 23, 2011 respectively delivered on 7 & 8th March 2011
- 15. Delivered lecture in RC in Life Sciences conducted by Dept. of Physiology, University of Calcutta, on 12th December 2011
- 16. Delivered lectures in the UGC Sponsored Orientation Programmes (17th & 18th) organized by UGC-ASC, NEHU on 5-7 March, 2012
- 17. Delivered lectures in the UGC Sponsored RC in Life Science organized by UGC-ASC, NBU on 29 the Sept., 2012
- 18. Delivered lectures in the HRDC-UGC Sponsored RC in Environmental Science organized by HRDC-UGC, NEHU on Oct, 2015
- 19. Delivered lecture in three days tranning programme on "Scientific Pisciculture in Ponds" at DVC, KTPS Koderma at DVC on 28th to 30th November 2016.

- 20. Delivered lectures in Department of Chemistry third semester student related to minor elective subject, Vivekananda Mahavidyalaya, Burdwan on 13 December 2016.
- 21. Delivered lecture in the Technical Seminar on "Disease in Carps: Treatment and Prevention" organized by Animalia Bioinformatic, Rajnagar, Purba Midnapur on January 02, 2017

b. Name of the inviting Institution/ University where delivered Lecture(s) in the Seminar/ Symposium/ Workshop:

- Delivered a special lecture as a resource person in the UGC Sponsored State Level Seminar held on 24 & 25th September, 2004 organized by Rabindra Mahavidyyalaya as "Waste Product and Its Management" on 25th September, 2004
- 2. Acted as judge in the National Children's Science Congress on 21st November, 2004
- 3. Invited to deliver lecture in the International Conference held on Dhaka, Bangladesh on 17 to 19th December, 2004
- 4. Invited to deliver lecture in UGC Sponsored Workshop organized by ABN Seal College, Cochbehar on 16th November, 2005
- 5. Delivered an invited lecture on "Our Earth is Beautiful and Bountiful" on 'National Earth Day' at Biddarthi Bhavan Girls' High School, on 22nd April, 2006
- 6. Invited to deliver lecture in the seminar on "Effects of Heavy Metals on Fish Physiology" organized by Bankura Christian College, Bankura on 25th September, 2006
- Delivered special lecture on "Environment for all" organized by National Council of Science Museums, Govt. of India, in "Environmental Campaign Programme 2006-07 held on 2 & 4th December, 2006
- 8. Invited to act as the President in Environment Campaign Programme at Science Centre, Ramna Maidan, Burdwan on 4th December, 2006
- 9. Delivered special lecture on "Global Warming: Role of IPCC" on "World Environment Day" organized by Paschimbanga Vigyan Manchia, Katwa Branch at Katwa, on 5th June, 2007
- 10. Delivered an invited lecture of 'Fate of Nuclear Energy' organized by District Primary School Organisation on 9th August, 2007
- 11. Delivered special lecture on "Global Climate Change and Its Impact" in the District Level Science Seminar organized by Science Centre on 22nd August, 2007

- 12. Delivered special talk in All India Doordarshan on "How to Increase Production and Weight of Fish" as expert in the Krishi Darshan of Pasar Bharati at 5.30 pm on 13th August 2007, Live Telecast in DD-7
- 13. Delivered special lecture on "Water Resource: Pollution, Prevention and Management" in the UGC Sponsored State Level Seminar-cum-Workshop organized by Netaji Mahavidyalaya on 21st September 2007
- 14. Delivered an invited lecture of "Ecology: Scientific and Philosophical Thoughts" organized by Department of Philosophy', Sreegopal Banerjee College, on 25th September, 2007
- 15. Delivered special lecture on "Importance of Protection & Conservation of Wild Life" on 04/10/2007 in celebration of Wild Life Week from 4-11 October, 2007
- 16. Delivered a lecture on "Paribseh and Health" in the Inaugural function of the National Seminar at Katwa College, Katwa, Burdwan, 2007-2008
- 17. Delivered an invited lecture in the national seminar on "Biodiversity Conservation" sponsored by National Environmental Awareness Campaign Programme, in collaboration with Ministry of Environment and Forests held at Sreegopal Banerjee College on 17th January, 2008
- 18. Invited to attend the programme of release of 6th State of India's Environment Report on Mining and Its Impact on People and Environment on 18th January, 2008. Report published by Hon'ble Governer of WB, Sri Gopal Krishna Gandhi
- 19. Delivered the special lecture on "Use of Resource and its Impact on Environment" at Sambalpur University, Orissa on 24th & 25th January, 2008
- 20. Invited in the Counselling Programme conducted by Directorate of Open & Distance Learning, University of Kalyani, Kalyani, Nadia, W.B. on 03rd February, 2008
- 21. Delivered the special lectures on "Biodiversity" in the Environmental Campaign Programme 2007-08 organized by District Science Centre on 5 & 6th February, 2008
- 22. Invited to preside over the Valedictory function in the Environmental Campaign Programme 2007 08 of Science Centre, Ramna Maidan, Burdwan, on 6th February 2008
- 23. Invited as a Resource person and delivered a talk on "Resource Utilization *vs* Environmental Degradation: An Impact Assessment for Open Cast Coal Mines" on 25th March 2008
- 24. Invited as resource person in the one week workshop on "Environmental Management, Testing and Monitoring" enter networking programme of TEQJP, GoI during April on

- 07/10/2008; entitled "Ecotoxicology & Bioassay Methods of Industrial Toxicology" delivered on 10th April, 2008
- 25. Invited for delivering lecture in the theme of World Environment Day 2008 "CO₂ Kick the Habit!" organized by Chandannagar Paribesh Unnayan Samity, Chandannagar, W.B. on 5th June 2008
- 26. Invited as resource person and delivered lectures at University Science Instrumentation Centre, The University of Burdwan, on 18th September, 2008
- 27. Invited as a speaker and delivered lecture on "Education & Environmental Science" at Chandernagore College on 27th September, 2008
- 28. Invited as resource person and delivered lectures in the Two-week MHRD/AICTE Sponsored Winter School on "Waste Management, Effluent Treatment and Recyling" during January 19 31, 2009 at Department of Chemistry, NIT Durgapur
- 29. Invited as resource person and delivered lectures in the World Forestry Day organized by Science Centre, Ramna Maidan, Burdwan on 21st March, 2009
- 30. Invited as a Resource person in the Course on Scanning Electron Microscope: Medical Applications for the PG students of the Burdwan Medical College on Sept. 9, 2009 organised by USIC, The University of Burdwan
- 31. Invited as resource person and delivered lectures in the Two-week NAAC Sponsored Seminar at Shyamsundar College on "Sustainable Best Practices in Educational Institutions doe Wuality Assurance" during September 11 & 12, 2009
- 32. Invited as Chief Speaker and delivered lectures on "Global Climatic Change in the Present Context" organized by Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly on 26th March, 2010
- 33. Invited to deliver lecture in World Earth Day Celebration Programme at Science Centre, Ramna Maidan, Burdwan on 22nd April, 2010
- 34. Invited in the One-day Seminar on "Global Warming" as speaker and delivered lectures on "Kick the Carbon Habit" organized by MUC Women's College on 24th September, 2010
- 35. Invited as guest lecturer in Intensive Aqua-culture Training Programme under NFDB and delivered lecture on Cat Fish Culture with Special Reference to Pangas, Indigenous Magur etc. organized by Government of West Bengal on 12th January, 2011

- 36. Invited as resource person and delivered lecture on "Energy and Environment Present Scenario: From Primary to University Level" in the DST, GoWB Sponsored one day seminar on "Energy and Environment Present Scenario" organized by Sadhanpur Vivekananda High School (H.S.) on 19th February, 2011
- 37. Invited to deliver lecture in the International Symposium on "System Intensification Towards Food & Environmental Security" organized by Crop and Weed Science Society, BCKV, Mohanpur, W.B. in collaboration with NABARD, Kolkata during February 24-27, 2011
- 38. Invited as resource person and delivered lecture in the UGC Sponsored National Level Symposium on "Pollution: Disbalancing Global Environment Threats & Prevention" at Bolpur College, Bolpur on 5-6 March, 2011
- 39. Invited as Speaker and delivered lecture in the UGC Sponsored National Seminar on "Water Pollution & Its Recent Challenges" at Dept. of Chemistry, SKM University, Dumka on April 29 30, 2011
- 40. Invited as Speaker and delivered lecture in the 33rd Indian Geography Congress sponsored by National Association of Geographers, India (NAGI) organized by Dept. of Geography, the University of Burdwan, at Dept. of Geography on November 11 -13, 2011
- 41. Delivered special lectures at Dept. of E.N.V.S., Chandernagar College on 15th September, 2011
- 42. Invited as resource person and delivered lecture on "Career & Counselling Cell" at Sailajananda Falguni Smriti Mahavidyalaya, Khayrasole, Birbhum 7th December, 2011
- 43. Delivered special lecture on "Blue Carbon: Remedy for Black Carbon" in the UGC Sponsored Two-day National Level Seminar on "Environmental Pollution and Its Impact on Human Health" organized by RRR Mahavidyalaya on 22rd December, 2011
- 44. Delivered Valedictory Address in the UGC Sponsored Two-day State Level Workshop on Enhancement of Initiative for Competence Building organized by Asansol Girls' College, Asansol on 23rd December, 2011
- 45. Invited as resource person and delivered lectures in the Seminar conducted by NSS Special Camping Programme of AKPC Mahavidyalaya from 17 to 23rd January 2012
- 46. Invited as resource person and delivered lectures in the UGC Sponsored National Seminar on "Conservation of Blue Carbon Sink: An Approach towards Safe Environment" at Netaji Mahavidyalaya, Arambag on 11-12 April, 2012

- 47. Invited as INSPIRE Internship Camp Organizers and delivered lecture on "INSPIRE Internship July, 2011 held in the University of Burdwan, Burdwan during July 11-15, 2011" in the 2nd Workshop for the organizers of DST-INSPIRE Science camp organized by Department of Science and Technology, GoI at YASHADA, Pune on 13th and 14th April, 2012
- 48. Invited as INSPIRE Internship Camp Organizers and delivered lecture on "INSPIRE Internship July, 2012 held in the University of Burdwan, Burdwan during July 6-10, 2012" in the 3rd Workshop for the organizers of DST-INSPIRE Science camp organized by Pondichery University, Brookashabad Campas and Department of Science and Technology, GoI at Port Blair, A & N Islands on 11th and 12th April, 2013
- 49. Invited as resource person and delivered lectures in the UGC Sponsored National Level Seminar on "Global Warming and Its Social & Economic Effect" at Tarakeshwar Degree College, Tarakeshwar, Hooghly on 2nd December, 2013
- 50. Invited as INSPIRE Mentor and delivered lectures in the DST, GoI Sponsored INSPIRE Internship Program 2013 on "Carbon Sink *vs* Climate Change" at National Institute of Technology Karnataka, Surathkal, Mangalore 575025 on 18th December, 2013
- 51. Invited as INSPIRE Mentor and delivered lectures in the DST, GoI Sponsored INSPIRE Internship Program 2014 (Winter) on "Carbon dioxide: Addiction vs. Climate change" at Integrated Science Education and Research Centre, Visva-Bharati, Santiniketan 731235 on 15th January, 2014
- 52. Invited as INSPIRE Mentor and delivered lectures in the DST, GoI Sponsored INSPIRE Internship Program 2014 (Winter) on "Carbon dioxide: Addiction *vs.* Climate change" at Integrated Science Education and Research Centre, Visva-Bharati, Santiniketan 731235 on 12th September, 2014
- 53. Invited as resource person and delivered lectures in the UGC Sponsored National Level Seminar on "Management of Reservoir Fisheries" at DVC, Panchet Dam on 5th December, 2014
- 54. Invited as resource person and delivered lectures in the Government of Bihar and Jharkhand on "Management of Reservoir Fisheries" at DVC, Panchet Dam on July, 2015
- 55. Invited for delivering lecture in the celebration of World Environmenta Day on 5th June 2015 at Chandannagore Municipal Corporation

- 56. Invited for delivering lecture in the Training class on "Application Of Formulated Feed In Intensive Fish Farming" on "Fish Health Management With Emphasis On Fish Disease".2016
- 57. Invited for delivering lecture in the 2nd Phase Training class on "Application Of Formulated Feed In Intensive Fish Farming" on "Fish Health Management With Emphasis On Fish Disease".2016

58.

22. INVOLVEMENT/ PARTICIPATION IN EXTENSION WORK, FIELD ACTIVITIES, SOCIAL SERVICE, INSTITUTIONAL/ CORPORATE LIFE, ADMINISTRATIVE ACTIVITIES

a) Administrative activities

- 1. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission at New Delhi 1994
- 2. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission and Andhra Pradesh University, at Vishakapatanam 1996
- 3. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission and University of Pondicherry, at Pondicherry 1998
- 4. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission and NIEPA, at New Delhi 1999
- 5. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission and Jabalpur University, 2001
- 6. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission and University of Mysore held on June 2 to 3, 2003
- 7. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission and Consortium for Educational Communication, held on August 22 & 23, 2005
- 8. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission and University of Hyderabad held on December 21 to 22, 2006
- 9. Attended All India UGC Academic Staff College Directors' Meet Organised by University Grants Commission and University of Kerala held on February 20 to 21, 2009

- 10. Attended All India UGC Academic Staff College Directors' Meet Organized by NIEPA held on February 20 to 21, 2009
- 11. Attended one-day Seminar Lecture Series on "Basic & Applied Microbiology" organized by Department of Microbiology, the University of Burdwan on 14th May 2010
- 12. Attended All India UGC Academic Staff College Directors' Meet Organized by University Grants Commission and University of Pondicherry held on April 28 29, 2011

23. AWARDS AND RECOGNITIONS

- 1. UGC Observership for NET Examination
- 2. Expert Member of the 7th RLST
- 3. Expert Member for the selection Committee at Universities: Vidyasagar University, Sambalpur University
- 4. Reviewer of Tata McGraw-Hill Education (India) Pvt. Ltd
- 5. Observer in the West Bengal Joint Entrance Examination
- 6. UGC Observership for SLET Examination
- 7. INSA Visiting Fellowship 2013-14
- 8. Chairman-cum-Convener in the Session PE03 in the International Conference, IUAES
- 9. TIFR Visiting Scientist 2014
- 10. Member of Expert Committee, UGC
- 11. Expert Member in Ecology & Environmental Science in Assam University, Silchar
- 12. Expert Member of Academic Audit of Aizwal University
- 13. Chairman-cum-Panel Expert in BITS, China
- 14. Expert Member of College Service Commission, WB
- 15. Expert Member of College Service Commission, Assam
- 16. Expert Member of Public Service Commission, Jharkhand
- 17. Expert Member of College Service Commission, NE Public Commission
- 18. Environmental Research, Promotion and Development Award,2023 By International Foundation For Environment and Ecology,Kolkata.

24. DETAILS OF ASSIGNMENTS

- 1. Dy. Director, [Additional Charge] UGC Academic Staff College, Burdwan University, since 1999
- 2. Part time Lecturer in Department of Zoology, since 1996 up to 2004

- 3. Guest Lecturer in P N Music College, Burdwan, since 1999 up to 2003
- 4. Member Board of Studies in Vocational Subject "Industrial Fish and Fishery"
- 5. UGC Observership for NET Examination in June 2003 for Guahati University
- 6. Expert Member of the $7^{\rm th}$ RLST , 2006 of West Bengal Regional School Service Commission (Eastern Region) in 2007
- 7. Expert Member for the selection of Part-time Lecturer in Environmental Science in 2007 (vide letter no. IC/Misc./Expert/1296. Dt.13.09.2007)
- 8. Listed as reviewer of Tata McGraw-Hill Education (India) Pvt. Ltd., since 2007 (vide letter no. KD/2047/SEM/2007)
- 9. President, Environmental Campaign Programme for Physically, Mentally and Visually Challenged Students held at Science Centre, Burdwan on 6th February, 2008
- 10. Chaired in Inaugural session and the Technical Session in the UGC Sponsored National Seminar on "Environmental Degradation and Impact Assessment in Mining & Industrial Areas" held on 25 & 26th March, 2008 at Talcher College, Talcher, Orissa
- 11. Observer in the West Bengal Joint Entrance Examination 2008 at National Institute of Technology, Durgapur on 20th April, 2008
 - 12. Invited for one of the judges in the International Museum Day by Science Centre, Ramna Maidan, Burdwan on 18th May, 2008
- 13. President, Environmental Campaign Programme for Physically, Mentally and Visually Challenged Students held at Science Centre, Burdwan on 7th January, 2009
- 14. UGC Observership for NET Examination in June 2009 for Calcutta University
- 15. UGC Observership for SET Examination in August 2009 for Kalyani University Zone
- 16. Chaired in the Laboratory Session II in the XXII National Workshop on Scanning Electron Microscopy at USIC, The University of Burdwan on 17th November, 2009.
- 17. Invited as a Judge Member in 'Documentary Movie Competition' held at Science Centre, Burdwan on 30th November, 2009
- 18. Invited as a Judge Member in "Essay Writing Competition" on Biodiversity held at Science Centre, Burdwan on 4th March, 2010
- 19. Invited as a Chief Guest on "Celebration of International Museum Day" held at Science Centre, Burdwan on 18th May, 2010

- 20. Chaired in the Technical Session VII in the National Seminar cum Exposition Modern Microscopes and Their Applications at USIC, The University of Burdwan (April 8-9,2010)
- 21. UGC Observership for NET Examination in June 2010 for Dibrugarh University
- 22. Expert Member for selecting Part-time Teacher in Environmental Science at Aghorekamini Prakashchandra Mahavidyalaya, Bengai, Hooghly in 2010 (vide letter no. AK/M/229/10)
- 23. Expert Member for selecting Part-time Teacher in Environmental Science at Khatra Ramai Pandit Mahavidyalaya, Bankura in 2010 (vide letter no. IC/Misc./Expert/350)
- 24. Chaired in the Technical Session in the International Symposium on "System Intensification Towards Food & Environmental Security" organized by Crop and Weed Science Society, BCKV, Mohanpur, W.B. in collaboration with NABARD, Kolkata during February 24-27, 2011
- 25. UGC Observership for SLET Examination in June 2011 at Guahati
- 26. Judge Member in 'Seminar Lecture Competition' held at Dept. of Zoology, The University of Burdwan, Burdwan on 5th August, 2011
- 27. Expert Member for appointing Guest Lecturer in Environmental Science in the Sambhu Nath College, held on 6th September, 2011
- 28. Member of Evaluation Panel for Paper III (Environmental Science) at UGC, New Delhi, during 8-12 November, 2011
- 29. Expert Member of the Board of Under Graduate Studies in Ecology & Environmental Science in Assam University, Silchar in February, 2012
- 30. UGC Observership for NET Examination in June 2012 for Patna University
- 31. Member Coordinator of NAAC Peer Team Visited the RNB College, Maharashtra, 26-28 July, 2012
- 32. Guest-in-Honour, "Career Counseling cum Interactive Program on Art & Practice" held at College of Art & Design, Burdwan University, on 27th August, 2012
- 33. Judge Member in 'Seminar Lecture Competition' held at Dept. of Zoology, The University of Burdwan, Burdwan on 6th September, 2012
- 34. Guest-in-Honour, in Silver Jubilee Celebration of Mankar College held at Mankar College, on 25th September, 2012

- 35. Chaired in the Technical Session III in the UGC Sponsored National Seminar on "Conservation of Blue Carbon Sink: An Approach towards Safe Environment" at Netaji Mahavidyalaya, Arambag on 11-12 April, 2012
- 36. Chaired in the Technical Session IV in the UGC Sponsored National Level Seminar entitled "Ecology, Environment and Development (NASEED–2013)" held on 25 to 27th January 2013 at Sambalpur, Orissa
- 37. UGC Observership for NET Examination in June 2013 for Calcutta University
- 38. Chairman-cum-Convener in the Session PE03 in the International Conference, IUAES 2013, held during 5-10th August, 2013 at University of Manchester, UK
- 39. Member Coordinator of NAAC Peer Team Visited the Dr. Babasaheb Ambedkar College of Arts, Commerce & Science, Bramhapuri, Maharashtra 19-21 September, 2013
- 40. Chaired in the NAAC Sponsored Workshop entitled "Quality Assurance Initiatives in Higher Education: Challenges, Trends and Priorities" held on 25 to 26th September 2013 at Maharajadhiraj Uday Chand Women's College, Burdwan
- 41. Chaired in the UGC Sponsored National Level Seminar on "Global Warming and Its Social & Economic Effect" at Tarakeshwar Degree College, Tarakeshwar, Hooghly on 2nd & 3rd December, 2013
- 42. UGC Observership for NET Examination in December 2013 for Ranchi University, Ranchi, Jharkhand
- 43. UGC Observership for NET Examination in June 2014 for Eastern Region, India
- 44. UGC Observership for NET Examination in December 2014 for Eastern Region, India
- 45. Guest of Honour in Seminar-cum-Workshop on "Quality Enhancement and Preparation of Self-Study Report" at Bankura Christian College, Bankura on 28th November, 2014
- 46. Member of Expert Committee, UGC Major Project Evaluation at University Grants Commission, New Delhi on 26 and 27th December, 2014
- 47. Expert Member in some National Level Examinations

25. MEMBERSHIP IN DIFFERENT INSTITUTIONS

- 1. Asian fisheries Society (Full)
- 2. Inland Fisheries Society of India
- 3. The Zoological Association, Burdwan

- 4. Association of Aquaculturists
- 5. Life Member, Paschimbanga Bijnan Mancha (Burdwan Zonal Committee)
- 6. Life Member of IIPA, New Delhi
- 7. Life Member, Sahid Shib Sankar Seba Samity, Burdwan.
- 8. Life Member of FISEC, since 2007
- 9. Life Member of Rotary International
- 10. Life Member of St. Johns Ambulance Association
- 11. Life member of Crop and Weed Science Society, BCKV
- 12. Life Member of Society of Toxicology, India
- 13. Member of IUAES, 2013
- 14. Life Member of International Foundation For Environment and Ecology, Kolkata.

24. GUEST TEACHER

- 1.Guest teacher in the Department of Zoology, since 1994 up to 2004
- 2. Guest teacher in the Department of Business Administration, since 2004 up to 2006
- 3.Guest teacher in the Department of Fisheries at Burdwan Raj College, since 1994 up to 2002

27. KEY NOTE ADDRESS

- i) Invited as resource person and delivered **Keynote Address** in the UGC Sponsored National Level Seminar on "Global Warming and Its Social & Economic Effect" at Tarakeshwar Degree College, Tarakeshwar, Hooghly on 2nd December, 2013
- ii) Invited as resource person and delivered **Keynote Address** in the UGC Sponsored National Level Seminar on at ABN Seal College, Cochbehar, WB on 17 19 February, 2019

26. OTHER INTERESTS

- 1. Photography
- 2. Writing of Popular articles on Environmental Problems
- 3. Play Drama

- 4. Gardening
- 5. Associated with NGOs at Burdwan and working on Cleanness of Environment and Ecofriendly Project

27. ASSOCIATION WITH UGC-ASC, BU

a) Jt. Coordinators

i) "Computer Science Application" Training Programme organized by Academic Staff College with the help of Department of Computer Science Application.

b) Jt. Coordinators in OP

- i) Twenty-eight OP, UGC-ASC ii) Twenty-ninth OP, UGC-ASC
- iii) Thirtieth OP, UGC-ASC iv) Thirty-first OP, UGC-ASC
- v) Thirty-second OP, UGC-ASC vi) Thirty-third OP, UGC-ASC
- vii) Thirty-forth to 47th OP, UGC-ASC viii) Forty-eighth OP, 2004
- ix) Forty-ninth OP, 2004 x) Fiftieth OP, 2004
- xi) Fifty-first OP, 2005 xii) Fifty-second OP, 2005
- xiii) Fifty-third to Fifty-eighth OPs, 2006 2007
- xiv) Fifty-nine to Sixty-fifth OPs, 2007 2008
- xv) Sixty-sixth to Sixty-ninth OPs, 2008 2009
- xvi) Seventy to Seventy-fourth OPs, 2009 2010
- xvi) Seventy-fifth to Seventy-ninth Ops, 2010 2011
- xvii) Eighty to Eighty-two OPs, 2011-2012

c) Coordinator in OP

i) Eighty-third to Eighty-eighth OPs, 2012-2013

d) Jt. Coordinators in RC

- i) Fifth Refresher Course in Environmental Science
- ii) Sixth Refresher Course in Environmental Science
- iii) Eighth Refresher Course in Environmental Science
- iv) Ninth Refresher Course in Environmental Science, 2005
- v) Tenth Refresher Course in Environmental Studies, 2005
- vi) Fourteenth RC in Environmental Science, 2007 '08
- vii) Fifteenth RC in Environmental Science, 2008 '09
- viii) Sixteenth RC in Environmental Science, 2009 '10
- ix) Nineteenth RC in Environmental Science, 2009 '10

- x) Second RC Life Science
- xi) Twenty third Refresher Course in Environmental Science, 2014

28. DISSERTATION REPORT OF M. Sc.

a) Dissertation carried out of other departments of University/College

Sl No.	Name of the Student	Topic: Comprehensive area	Name of the College/University	Year
1	Smaranya Haque	Silver nano technology: a new vistas in nano world	Dept of Biotechnology, The University of Burdwan	2008
2	Tanushri Mondal	Ultrastructural and Biochemical changes of gastrointestinal tract of <i>Channa punctatus</i> (Bloch) caused due to glyphosate, a herbicides	Dept of Biotechnology, The University of Burdwan	2008
3	Manas Kumar Das	Temporal variation on geomorphological status of Hooghly river (Lower Ganges) from 1975 – 2007 – special emphasis on Diamond Harbour area	The University of Burdwan	2008
4	Ushasi De	Water resource potentiality in Barddhaman Municipal Area	The University of Burdwan	2008
5	Krishnanjaan Pakrasi	Water resource potentiality in Barddhaman Municipal Area	The University of Burdwan	2008
6	Smaranya Haque	Effect of sodium fluoride in alimentary canal of <i>Channa Punctatus</i> (Bloch)	Dept of Biotechnology, The University of Burdwan	2008
7	Madhuri Ghosh	Study on temporal variations of microorganisms I relation to limnological parameters of downstream zones of Damodar at Sadarghat	Burdwan Institute of Management and Computer Science	2009
8	Arpita Das	Limnological and microbial study of different zones of Banka River flowing through Barddhaman Municipal areas		2009
9	Hirak Jyoti De	Ethnomedicinal plants and their uses in West Bengal, India	Indira Gandhi Academy of Environmental	2011

Education Research	
and Ecoplanning,	
Jiwaji University	

b) Dissertation M Sc. i) Session: 2002-2004

Sl. No.	Name of the Student	Topic	Guide
1	Aloke Kr.	Modification of alimentary canal of <i>Channa punctatus</i>	Dr A R Ghosh
1	Mukherjee	(bloch.) in relation to food and feeding habit at hot water	DI A K Gliosii
	Withheliet	spring at Bakreshwar, Birbhum: A bioecological survey and	
		ultramicroscopic and histological investigation	
2	Pritha Bhadra	Modification of alimentary canal of Channa punctatus	Dr A R Ghosh
		(Bloch.) in relation to food and feeding habit at hot water	
		spring at Bakreshwar, Birbhum: A bioecological survey and	
		ultramicroscopic and histological investigation	
3	Sudipta Biswas	Study on bioecological condition and modification in	Dr A R Ghosh
		alimentary canal at ultramicroscopic level in relation to food	
		and feeding habit of <i>Puntius sophore</i> .(Ham.) in hot spring at	
		Bakreshwar, Birbhum	
4	Sarbani Paul	Study on bioecological condition and modification in	Dr A R Ghosh
		alimentary canal at ultramicroscopic level in relation to food	
		and feeding habit of <i>Puntius sophore</i> .(Ham.) in hot spring at	
		Bakreshwar	
5	Tania Bose	Modification of alimentary canal of Channa punctatus	Dr A R Ghosh
		(Bloch.) in relation to food and feeding habit at hot water	
		spring at Bakreshwar, Birbhum: A bioecological survey and	
		ultramicroscopic and histological investigation	

ii) Session: 2003-2005

Sl.	Name of the	Topic	Guide
No.	Student		
6/1	Asrafi Khatun	Impact of municipal waste water in horticulture practices in	Dr A R Ghosh
		Rahamatnagar, Asansol	
7/2	Krishnakali Datta	Water quality parameters of Raniganj Coalfield Areas : a	Dr A R Ghosh
		comparative study	&
			Dr R N Saha
8/3	Partha Pratim	Biochemical effects of effluent discharged by a sponge iron	Dr A R Ghosh
	Majhi	industry on water body	
9/4	Sujan Choudhuri	Impact of municipal waste water in horticulture practices in	Dr A R Ghosh
		Rahamatnagar, Asansol.	
10/5	Satarupa Satpati	Biochemical effects of effluent discharged from a sponge	Dr A R Ghosh
		iron industry on water body	

iii) Session: 2004-2006

Sl.	Name of the	Topic	Guide
No.	Student		
11/1	Rituparna Sarkar	Metanil yellow induce alterations in cellular organization of	Dr A R Ghosh
		alimentary canal and kidney of indian catfish Heteropneustus	
		fossilis	
12/2	Sampa Bag	Study of physico-chemical and biological parameters with	Dr A R Ghosh
		special reference to habitat of arthropods and microbes in the	
		slug generated by ISSCO, Burnpur	
13/3	Suvadeep	Effect of sodium fluoride on digestive system and kidney of	Dr A R Ghosh
	Chakroborty	air-breathing teleost Channa punctatus (Bloch)	
14/4	Tithi Chatterjee	Study on water quality parameters and effects of runoff with	Dr A R Ghosh
		special reference to pesticides from adjacent crop field on	
		fish health in Golapbag Trench	
15/5	Tarakeshwar	Study on ecological parameter with special reference to soil,	Dr A R Ghosh
	Senapati	aquatic vegetation, zooplankton and fish in the Golapbag	
		Trench	

iv) Session: 2005-2007

Sl.	Name of the	Topic	Guide
No.	Student		
16/1	Arpita	Effect of arsenic in the different regions of alimentary canal	Dr A R Ghosh
	Mukherjee	of fish Mastacembelus pancalus (Hamilton)	
17/2	Amrita	Effect of cadmium in alimentary canal of indian freshwater	Dr A R Ghosh
	Bhoumick	fish Anabus testudineus (Bloch) and chelation by EDTA and	
		Eichhornia crasspies	
18/3	Koushik Datta	Environmental status of an ideal village : a case study	Dr A R Ghosh
19/4	Lahari Sarkar	Physico-chemical analysis of water and soil in some lakes/	Dr A R Ghosh
		sayars of Barrdhaman	
20/5	Sabyasachi	Monitoring and air quality assessment at Bankola area,	Dr A R Ghosh
	Mukhopadhyay	Raniganj Coal field Area, Burdwan, West Bengal	
21/6	Tanushree Datta	Study of sewage fed fishery in the pond of Khatpukur,	Dr A R Ghosh
		Durgapur, Burdwan	

v) Session: 2006-2008

Sl.	Name of the	Topic	Guide
No.	Student		
22/1	Dipanjana Deb	Study on toxicodynamics of arsenic- infested areas of Madra	Dr A R Ghosh

		and Boldedanga of Pubasthali, Burdwan District	
23/2	Munmun Chattri	Impact of diesel oil effluents on ecological parameters of a	Dr A R Ghosh
		diesel-fed fresh water pond at Barddhaman	
24/3	Saila Sekhar	Isolation of diesel oil degrading bacteria from a diesel fed	Dr A R Ghosh
	Ghosal	pond at Barddhaman	
25/4	Sucheta Adhikary	Study on toxicodynamics of arsenic- infested areas of Madra	Dr A R Ghosh
		and Boldedanga of Pubasthali, Burdwan District	
26/5	Subhamita	Impact of diesel oil effluents on ecological parameters of a	Dr A R Ghosh
	Chatterjee	diesel fed fresh water pond at Barddhaman	
27/6	Subinoy Mondal	Study on thermal stratification of a pit pond in Raniganj coal	Dr A R Ghosh
		field areas, Burdwan	

vi) Session: 2007-2009

Sl.	Name of the	Topic	Guide
No.	Student		
28/1	Sk. Zeeshan Ali	Impact of effluents from textile dye industries of Maheshtala in the adjacent drain of canal water	Dr A R Ghosh
29/2	Shruti Dutta	Chromium toxicity on liver, kidney, overy, pituitary gland and adrenal gland of air breathing teleost <i>Heteropneustes fossilis</i> (Bloch)	Dr A R Ghosh
30/3	Basishali Kahali	Quality assessment of drinking water at Durgapur Municipal area	Dr A R Ghosh
31/4	Priyanka Mandal	Rice mill: a bloom of environmental economy vis-à-vis environmentsl and human health hazards	Dr A R Ghosh
32/5	Reshmi Ghosh	Health risk assessment of rice-mill infested area, Alamgung of Burdwan	Dr A R Ghosh
33/6	Shatabdi Saha	Study on waste water from Hooghly- Bandel Municipility after effective treatment and its subsequent use in aquaculture	Dr A R Ghosh
34/7	Raja Baberjee	Quality assessment of Ganga water near Budge-budge industrial belt	Dr A R Ghosh

vii) Session: 2008-2010

Sl.	Name of the	Topic	Guide
No.	Student		
35/1	Subhajit	Analysis of biomedical waste liquid from Arambag	Dr A R Ghosh
	Bhattacharyya	Subdivisional Hospital: a Case study	
36/2	Palas Samanta	Effectiveness of almix in aquatic weed control as well as on	Dr A R Ghosh
		fish health and soil and water quality	
37/3	Bidisha Bera	Characterization of M.S.W from Arambagh town and its	Dr A R Ghosh
		effects on adjacent ground water and river water of	
		Dwarakeshwer	
38/4	Moushumi Pal	Tourist carrying capacity and environmental analysis of	Dr A R Ghosh
		Ballavpur Wild life Sanctuary – its problem and future	

		Aspect	
39/5	Ankita	Analysis of treated waste water from Durgapur Steel Plant	Dr A R Ghosh
	Mukherjee	used in irrigation via Tamla Nalla	

viii) Session: 2009-2011

Sl. No.	Name of the Student	Торіс	Guide
40/1	Monisha Roy	Comparative study of toxicity of cadmium chloride at three exposure periods (15, 30 & 45 d) on kidney and ovary of <i>Channa punctatus</i> (BLOCH) and <i>Heteropneustes fossilis</i> (BLOCH)	Dr A R Ghosh
41/2	Sabarna Mondal	Effect of cadmium chloride during three phases (15, 30 & 45 d) of chronic exposure on gill, liver, kidney of <i>Heteropneustes fossilis</i> (Bloch)	Dr A R Ghosh
42/3	Debraj Kole	Limnobiological and soil quality assessment: a comparative study on Krishnasayar and pond inside the Burdwan Medical College and Hospital	Dr A R Ghosh

ix) Session: 2010-2012

Sl. No.	Name of the Student	Торіс	Guide
43/1	Namita Bandyopadhyay	Comparative study of toxicosis of almix on Anabas testudineus (Bloch), Heteropneustes fossilis (Bloch) and Oreochromis niloticus (Linnaeus)	Dr A R Ghosh
44/2	Sudipta Adhurjya	Chemical analysis and biological study of dietary uptake of iodine by air-breathing teleost, <i>Anabas testudineus</i> (Bloch)	Dr A R Ghosh
45/3	Nibedita Mahato	Chronic toxicity study on olfactory organs in freshwater eel, <i>Macrognathus aculeatus</i> (Bloch) by zinc chloride (ZnCl ₂)	Dr A R Ghosh
46/4	Debajyoti Kundu	Analysis of physicochemical parameters of water and soil and study on bioaccumulation of lead in aquatic organisms in East Kolkata Wetland (EKW)	Dr A R Ghosh

x) Session: 2011-2013

	A) Desision: 2011 2015			
Sl.	Name of the Student	Topic	Guide	
No.		•		
47/1	Amina Khatun	Study on Physicochemical Parameters and Bioaccumulation of Heavy Metals in East Kolkata Wetlands	Dr A R Ghosh	
48/2	Arnab Mondal	Study on Physicochemical Parameters of Water of	Dr A R Ghosh	
		East Kolkata Wetlands		

49/3	Amrita Chakraborty	Histological Alteration in Tadpoles of <i>Euphlyctis</i>	Dr A R Ghosh
		Cyanophlyctis Under Fluoride Toxicosis	
50/4	Priyanka Chandra	Study on Limnological Characteristics and Heavy	Dr A R Ghosh
		Metals of East Kolkata Wetlands	
51/5	Rituparna Das	Ultrastructural Changes in Different Tissues of	Dr A R Ghosh
		Anabas Testudineus (Bloch) Under Almix	
		Toxicity: A Comparative Study	

xii) Session: 2012-2014

Sl.	Name of the Student	Topic	Guide
No.		_	
52/1	Antara Ghosal	Effect of Dose and Duration of Glyphosate	Dr A R Ghosh
		Toxicosis on Lamellidens marginalis (Lamarck,	
		1819): A Comparative Study	
53/2	Niladri Sekhar	Dose Dependent Alterations in Gill and Some	Dr A R Ghosh
	Mondal	Tissues of Digestive System of Channa punctatus	
		(Bloch) Under Arsenic Intoxication	
54/3	Pragya Kumari	Histopathological and Ultrastructural Alterations	Dr A R Ghosh
		in Different Tissues of Oreochromis niloticus	
		(Linn.) Under Glyphosate Exposure	
55/4	Sukhendu Dey	Bioaccumulation of Glyphosate Herbicide in	Dr A R Ghosh
		Macrophytes and Fish Tissues and Subsequent	
		Biochemical Response in Fishes	
56/5	Sunanda Batabyal	Nutritional Status of Some Freshwater Fishes	Dr A R Ghosh

xiii) Session:2013-2015

Sl.	Name of the Student	Topic	Guide
No.		_	
57/1	Binhuti Ranjan	Comparative Toxicosis of Copper and Nickel on	Dr A R Ghosh
	Panigrahy	Heteropneustes fossilis (Bloch)	
58/2	Mou Kundu	Effect of Chlorantranilirole Insecticide and Subsequent Recovery with Choline Chloride on Lamellidens marginalis (Lamarck): AComparative Study	Dr A R Ghosh
59/3	Samapti Dan	Study on Ferterra Insecticide on <i>Oreochromis</i> niloticus (Linn.) and Subsequent Recovery by Choline and Homeopathy Drug	Dr A R Ghosh
60/4	Kaushik Goswami	Histopathological and Ultrastructural Alteration in Different Tissues of <i>Oreocromis niloticus</i> (Linn.) Under Chlorantraniliprole Exposure	Dr A R Ghosh

Xiv) Session:2014-2016

Sl.	Name of the Student	Topic	Guide
No.			

61/1	Monalisa Kundu	Characterisation of rice mill effulents and its	Dr A R Ghosh
		effects on teleostean fish Oriochromis niloticus	
		(L)	
62/2	Sumona Halder	Limnological and bacteriological assessment of	Dr A R Ghosh
		different water sources at Goda, Lakurdi,	
		Burdwan	
63/3	Arghya Mondal	Histological and biochemical alterations in	Dr A R Ghosh
		Anabas testudineus (Bloch), the natural inhabitant	
		of rice mill wastewater	
64/4	Atanu Patra	Histo-enzymological Changes In Lamellidens	Dr A R Ghosh
		Marginalis Due To cadmium Intoxication Under	
		Different Exposure	

xv) Session:2015-2017

Sl.	Name of the Student	Topic	Guide
No.			
65/1	Mousumi Kumar	Comparative responses of TiO ₂ nanoparticle on a	Dr A R Ghosh
		molluscs, pila globosa (Swainson, 1822) and an	
		Indian major carp, cirrhinus mrigala (Hamilton,	
		1822) based on two different exposures	
66/2	Rida Badiya Saba	Impact of ZnO nanoparticle and ZnCl ₂ on	Dr A R Ghosh
		Lamellidens marginalis (Lamark, 1819) and	
		Anabas testudineus (Bloch, 1792): A comparative	
		study	
67/3	Antara Chakrabortty	Haematological responses of potassium	Dr A R Ghosh
		dichromate (K ₂ Cr ₂ O ₇) on different exposure	
		periods on Anabas testudineus (Bloch)	
68/4	Anamika De	Effects of Cr ⁶⁺ on air breathing teleost <i>Channa</i>	Dr A R Ghosh
		punctatus (Bloch) and consequent changes in its	and Dr Sampa
		gut microflora composition	Dutta

xvi) Session:2016-2018

Sl.	Name of the Student	Topic	Guide
No.		_	
69/1	Moumita Pal	Exposure-specific responses of UV-B radiation on Skin, Eye and Spleen of <i>Heteropneustes fossilis</i> (BLOCH, 1794)	Dr A R Ghosh
70/2	Souvik Singha	Exposure-specific responses of Cadmium and Selenium on <i>Heteropneustes fossilis</i> : A comparative study based on biochemical and haematological analysis	Dr A R Ghosh
71/3	Bilkis Sultana	Influence of synthetic dyes on Albino Rat and their subsequent removal by specific adsorbents from aqueous solution	Dr A R Ghosh and Dr Naba Kumar Mondal
72/4	Susmita Dutta	Health status of common people in the core zone of Shyamsundarpur colliery, Ukhra, Burdwan	Dr A R Ghosh

xvii) Session: 2017-2019

Sl.	Name of the Student	Topic	Guide
No.		_	
73/1	Puspita Ballav	Naphthalene Exposure Induces Haematological,	Dr A R Ghosh
		Biochemical and Erythrocytic Alterations In	
		Anabas testudineus (Bloch) under Laboratory	
		Condition	
74/2	Trisha Biswas	Assessment of Opencast Coal Pits (OCPs) Water	Dr A R Ghosh
		Body For Pisciculture: A Case Study on Samdi	
		OCP, Raniganj, Paschim Bardhaman, West	
		Bengal	
75/3	Meghla Mukherjee	Effects and Subsequent Recovery by Fish Diet,	Dr A R Ghosh
		Choline In Cadmium Intoxification Teleostean	
		Fish, Oreochromis niloticus (L.)	
76/4	Sk. Mirjan	Evaluation of Growth Performance of Indian	Dr A R Ghosh
		Major Carps and Air Breathing Teleosts On	
		Application of Humic Feed-O Fert	

xviii) Session: 2018-2020

Sl.	Name of the Student	Торіс	Guide
No.			
77/1	Megha Santra	Dose Specific Responses of Naphthalene and	Dr A R Ghosh
		Anthracene (PAHs) and Subsequent recovery by	
		Humic Feed-O Fart: A Blood morphological and	
		biochemical analysis	
78/2	Priyanka Dutta	Water and Soil Quality Analysis of some Spots of	Dr A R Ghosh
		Digha Coastal Belt	
79/3	Atanu Dan	Assessment of Water and Soil quality of	Dr A R Ghosh
		Abandoned OCPs (Opencast Coal Pits) for	
		Suitability of Pisciculture and Agriculture, at	
		Raniganj Coalfield Area, Paschim Bardhaman,	
		West Bengal	

xviv) Session: 2019-2021

Sl.	Name of the Student	Topic	Guide
No.			
80/1	Sugata Das	Removal of Cadmium (Cd ²⁺) from Aqueous Solution using Biochar	Dr A R Ghosh
81/2	Reshmi Nayak	Assessment of Domestic Pollution in a Typical Water body: A Case Study	Dr A R Ghosh

XVV) SESSION: 2020-2022

SL. No.	Name of the student	Торіс	Guide
82/1	Sholoni Das	Efficacy of Biochar in Relinquish The Effects of	Dr A R Ghosh
		Cadmium Toxicity in An Air-Breathing Teleost	
		Heteropneustes Fossilis (Bloch, 1794)	
83/2	Antara Das	Time Dependent Histological, Hematological and	Dr A R Ghosh
		Biochemical Alterations in Microplastic Induced	

		Heteropneustes Fossilis (Bloch, 1794) Under	
		Laboratory Conditions	
84/3	Najma Sultana	Biochemical And Hematological Consequences Of	Dr A R Ghosh
		Cadmium On Heteropneustes Fossilis (Bloch, 1974)	
		And Its Sebsequent Recovery With Selenium	
85/4	Shilpa Khan	Removal of Cadmium (Cd2+) from Aqueous Solution	Dr A R Ghosh
	_	using Biochar (CV400 & CV500)	
86/5	Ishrath Sk.	Removal of Arsenic (As) from Aqueous Solution	Dr A R Ghosh
		using Biochar (LC 400 & CV 400)	

XVV) SESSION: 2021-2023

SL. No.	Name of the student	Topic	Guide
87/1	Anirban Ghosh		Dr A R Ghosh
88/2	Aritra Ghosh		Dr A R Ghosh
89/3	Prerona Dey		Dr A R Ghosh
90/4	Neha Dutta		Dr A R Ghosh
91/5	Raima Sarkar		Dr A R Ghosh

ACADEMIC STAFF COLLEGE THE UNIVERSITY OF BURDWAN DR APURBA RATAN GHOSH

A. Orientation Programme

Year	Name of the Courses	Duration	Mode of Functioning
1999-2000	27 th Orientation Programme	01.06.99-28.06.99	Prof. B Ghosh &
			Dr A R Ghosh
	28 th Orientation Programme	26.10.99-22.11.99	Dr N Prasad &
			Dr A R Ghosh
	29 th Orientation Programme	05.02.00-04.03.00	Sri A Banerjee &
			Dr A R Ghosh
2000-2001	30 th Orientation Programme	01.07.00-28.07.00	Dr B Ghosh &
			Dr A R Ghosh
	31 st Orientation Programme	14.10.00-10.11.00	Dr A K Dutta &
			Dr A R Ghosh
	32 nd Orientation Programme	14.10.00-10.11.00	Dr A K Dutta &
			Dr A R Ghosh
	33 rd Orientation Programme	14.03.01-10.04.01	Dr Sarit Sadhu &
			Dr A R Ghosh
2001-2002	34 th Orientation Programme	14.07.01-10.08.01	Dr J K Datta &
			Dr A R Ghosh

	35 th Orientation Programme	02.11.01-29.11.01	Dr B Ghosh &
	al.		Dr A R Ghosh
	36 th Orientation Programme	02.11.01-29.11.01	Dr B Ghosh &
	d.		Dr A R Ghosh
	37 th Orientation Programme	09.03.02-05.04.02	Dr A R Ghosh &
			Dr S K Sadhu
2002-2003	38 th Orientation Programme	02.07.02-29.07.02	Dr A R Ghosh &
			Dr M Chatterjee
	39 th Orientation Programme	22.10.02-18.11.02	Dr A R Ghosh &
	d.		Dr M Chatterjee
	40 th Orientation Programme	22.10.02-18.11.02	Dr A R Ghosh &
			Dr M Chatterjee
	41 st Orientation Programme	04.01.03-31.01.03	Dr A R Ghosh &
			Dr M Chatterjee
2003-2004	42 nd Orientation Programme	22.07.03-18.08.03	Dr A R Ghosh &
			Dr M Chatterjee
	43 rd Orientation Programme	22.07.03-18.08.03	Dr A R Ghosh &
			Dr M Chatterjee
	44 th Orientation Programme	20.08.03-16.09.03	Dr A R Ghosh &
			Dr M Chatterjee
	45 th Orientation Programme	10.10.03-06.11.03	Dr A R Ghosh &
			Dr M Chatterjee
	46 th Orientation Programme	02.01.04-29.01.04	Dr A R Ghosh &
			Dr M Chatterjee
	47 th Orientation Programme	21.02.04-19.03.04	Dr A R Ghosh &
			Dr M Chatterjee
2004-2005	48 th Orientation Programme	14.07.04-10.08.04	Dr A R Ghosh &
			Dr M Chatterjee
	49 th Orientation Programme	01.09.04-28.10.04	Dr A R Ghosh &
			Dr M Chatterjee
	50 th Orientation Programme	09.11.04-06.12.04	Dr A R Ghosh &
			Dr M Chatterjee
	51 st Orientation Programme	29.01.05-25.02.05	Dr A R Ghosh &
			Dr M Chatterjee
	52 nd Orientation Programme	03.03.05-30.03.05	Dr A R Ghosh &
			r M Chatterjee
2005-2006	53 rd Orientation Programme	07.06.05-04.07.05	Dr A R Ghosh &
			Dr M Chatterjee
	54 th Orientation Programme	06.08.05-02.09.05	Dr A R Ghosh &
			Dr M Chatterjee
	55 th Orientation Programme	22.10.05-18.11.05	Dr A R Ghosh &
			Dr M Chatterjee
	56 th Orientation Programme	21.12.05-17.01.06	Dr A R Ghosh &
			Dr M Chatterjee
	57 th Orientation Programme	11.02.06-10.03.06	Dr A R Ghosh &
			Dr M Chatterjee

2006-2007	58 th Orientation Programme	06.06.06-03.07.06	Dr A R Ghosh &
2000 2007		00.00.00 02.07.00	Dr M Chatterjee
	59 th Orientation Programme	19.08.06-15.09.06	Dr A R Ghosh &
	3) Offentation Frogramme	17.00.00 12.07.00	Dr M Chatterjee
	60 th Orientation Programme	10.10.06-06.11.06	Dr A R Ghosh &
		10.10.00 00.11.00	Dr M Chatterjee
	61 st Orientation Programme	26.12.06-22.01.07	Dr A R Ghosh &
	or Orientation riogramme	20.12.00-22.01.07	Dr M Chatterjee
2007-2008	62 nd Orientation Programme	19.06.07-16.07.07	Dr A R Ghosh &
2007-2000	02 Offentation Flogramme	17.00.07-10.07.07	Dr M Chatterjee
	63 rd Orientation Programme	15.09.07-12.10.07	Dr A R Ghosh &
	03 Offentation Flogramme	13.07.07-12.10.07	Dr M Chatterjee
	64 th Orientation Programme	07.12.07-03.01.08	Dr A R Ghosh &
	04 Orientation i rogramme	07.12.07-03.01.00	Dr M Chatterjee
	65 th Orientation Programme	04.03.08-31.03.08	Dr A R Ghosh &
	03 Offentation Flogramme	04.03.06-31.03.06	Dr M Chatterjee
2008-2009	66 th Orientation Programme	05.09.08-01.08.08	Dr A R Ghosh &
2008-2009	oo Orientation Programme	05.09.08-01.08.08	
	67 th Orientation Broamma	06.09.08-03.10.08	Dr M Chatterjee Dr A R Ghosh &
	67 th Orientation Programme	00.09.08-03.10.08	
	coth O:	12 12 00 00 01 00	Dr M Chatterjee
	68 th Orientation Programme	13.12.08-09.01.09	Dr A R Ghosh &
	coth o	02.02.00.20.02.00	Dr M Chatterjee
	69 th Orientation Programme	03.03.09-30.03.09	Dr A R Ghosh &
	- th -		Dr M Chatterjee
2009 - 2010	70 th Orientation Programme	16.05.09-12.06.09	Dr A R Ghosh &
	- et -		Dr M Chatterjee
	71 st Orientation Programme	01.08.09-28.08.09	Dr A R Ghosh &
	nd.		Dr M Chatterjee
	72 nd Orientation Programme	14.10.09-10.11.09	Dr A R Ghosh &
			Dr M Chatterjee
	73 rd Orientation Programme	4.12.09-31.12.09	Dr A R Ghosh &
			Dr M Chatterjee
	74 th Orientation Programme	3.3.10-30.3.10	Dr A R Ghosh &
			Dr M Chatterjee
2010 - 2011	75 th Orientation Programme	8.5.10-4.6.10	Dr A R Ghosh &
			Dr M Chatterjee
	76 th Orientation Programme	22.7.10-18.8.10	Dr A R Ghosh &
			Dr M Chatterjee
	77 th Orientation Programme	27.10.10-23.11.10	Dr A R Ghosh &
			Dr M Chatterjee
	78 th Orientation Programme	11.1.11-7.2.11	Dr A R Ghosh &
			Dr M Chatterjee
	79 th Orientation Programme	4.3.11-31.3.11	Dr A R Ghosh &
	5		Dr M Chatterjee
2011-2012	80 th Orientation Programme	14.5.11-10.6.11	Dr A R Ghosh &
			Dr M Chatterjee
[L	21 III Chancijee

	81st Orientation Programme	16.7.11-12.8.11	Dr A R Ghosh &
			Dr M Chatterjee
	82ndOrientation Programme	3.9.11-30.9.11	Dr A R Ghosh &
			Dr M Chatterjee
	83rd Orientation Programme	10.1.12-6.2.12	Dr A R Ghosh
	84th Orientation Programme	18.2.12-17.3.12	Dr A R Ghosh
2012 - 2013	85 th & 86 th Orientation Programme		Dr A R Ghosh
	87 th Orientation Programme		Dr A R Ghosh
	dh.		
	88 th Orientation Programme		Dr A R Ghosh

B. Refresher Course

Sl. No.	Name of the Courses	Mode of Functioning
1	I RC Environmental Science	Delivered Lecture
2	II RC Environmental Science	Delivered Lecture
3	III RC Environmental Science	Delivered Lecture
4	XIV RC Zoology	Delivered Lecture & Practical Demonstration
5	IV RC Environmental Science	Delivered Lecture
6	V RC Environmental Science	Dr A R Ghosh
7	VI RC Environmental Science	Prof. J K Datta & A R Ghosh
8	VII RC Environmental Science	Delivered Lecture & Practical Demonstration
9	I RC Life Science	Delivered Lecture & Practical Demo9nstration
10	VIII RC Environmental	Prof. S K Dutta & Dr A R Ghosh
	Science	
11	IX RC Environmental Science	Prof. J K Datta &
		Dr A R Ghosh
12	X RC Environmental Science	Prof. J K Datta &
		Dr A R Ghosh
13	XI RC Environmental Science	Delivered Lecture & Practical Demonstration
14	XII RC Environmental Science	Delivered Lecture & Practical Demonstration
15	XIII RC Environmental	Delivered Lecture & Practical Demonstration
	Science	
16	II RC Life Science	Prof. A K Bhattacharyya &
		Dr A R Ghosh
17	XIV RC Environmental	Prof. Ambarish Mukherjee &
	Science	Dr A R Ghosh
18	II RC Biochemical Science	Delivered Lecture & Practical Demonstration
19	XV RC Environmental	Prof. J K Datta &
	Science	Dr A R Ghosh
20	XVI RC in Environmental	Prof. J K Datta &
	Science	Dr A R Ghosh
21	XIX RC in Environmental	Prof. J K Datta &
	Science	Dr A R Ghosh

C. LIST OF ACTIVITIES 2019-2020

Sl	Position	Name of the Event	Organised by	Date
No.				
1	Session Chair	Nat. Symposium on Waste	Natn. Inst. Of Tech.	9 – 10,
		Mangt. & Resource Circulation	Durgapur (NITD), Durgapur	Aug, 2019
2	Expert-cum-	One day workshop on	MBC Inst. Of Engineering	16.11.2019
	Speaker	Dissemination of Information	& Technology, Sadhanpur,	
		Programme	Purba Bardhaman	
		Topic: Global warming & Carbon		
		Foot Print: Role IT		

3	Course	UGC-HRDC RC on Natural &	UGC-HRDC	3.12.19 to
	Coordinator	Man Made Disaster causes,	The University of Burdwan	16.12.19
4	3.6 1	Impact and Management	NA AG	11 02 2010
4	Member	Maharashtra Mahavidlaya,	NAAC	11-03-2019
	Coordinator	Nilanga		to 12-03-
_	N/ 1	W. 1 C II C D.,	NA A C	2019
5	Member	Vivek College of Bijnor	NAAC	20-09-2019
	Coordinator			to 21-09- 2019
6	Invited	Workshop on AQAR	TDB College, Raniganj,	18.01.20
	Speaker		Paschim Bardhaman	
7	Resource	HE and Importance of NAAC	UGC-HRDC	01.02.20
	Person		The University of Burdwan	
8	Resource	Workshop on SSR preparation for	UGC-HRDC	12.02.20
	Person	College	The University of Burdwan	
9	Resource	Special Lecture on Academic	Bolpur College, Birbhum,	27.02.20
	Person	Audit	WB	
10	Invited	Microplastics and Environmental	27 th WB State Science	29.02.20
	Speaker	Threat	Congress	
11	Inaugural	Two day Seminar on Biodiversity	Rasbindra Bharati	05.03.20 &
	Lecture	Conservation & Environmental	University	6.03.20
		Law		
		Topic: Sixth Mass Extinction vis-		
		a-vis Biodiversity		
12	Resource	Lecture on Academic Audit	BB College	12.03.20
	Person		Asansol, Paschim	
			Bardhaman	
13	Resource	Workshop on preparation of SSR	IC Department	17.03.20
	Person	for NAAC Accreditation	The University of Burdwan	
14	Invited	MICROPLASTICS IN OUR	Deptt. of Environmental Sc.	21.03.20
	Speaker	SEAS NOW OUTNUMBERS	University of Kalyani,	
		STARS IN OUR GALAXY	Nadia	
15	Member	Smt Mahadevi Mahavidyalaya,	NAAC	8 & 9
	Coordinator	Shikohabad, UP		February,
				2021
16	Member	Govt. College Manawar	NAAC	March 22 &
	Coordinator	Manawar, MP		23, 2021
7	Resource	Seven day national workshop	USIC, BU	FEB, 2019
	Person	cum hands-on training		
		programme on transmission		
		electron microscopy		

C. LIST OF ACTIVITIES 2020 – 2021

Sl No.	Position	Name of the Event	Organised by	Date
1	Coordinator	Refresher Course in Sustainability and the Future of the Earth (07.01.2021 to 20.01.2021)	UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, The UNIVERSITY of Burdwan	07.01.2021 to 20.01.2021
2	Resource Person	Refresher Course in Environmental Science 09.02.2021 to 22.02.2021	UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, The UNIVERSITY of Burdwan	19.02.2021
3	Resource Person	Refresher Course in Natural and Biosciences 24.11.2020 to 07.12.2020.	UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, The UNIVERSITY of Burdwan	27.11.20
4	Resource Person	Refresher Course in Natural and Biosciences 24.11.2020 to 07.12.2020.	UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, The UNIVERSITY of Burdwan	02.12.20
5	Attended	International Webinar on Present and Future Strategies to combat emerging reemerging contagious diseases	Department of Microbiology, The University of Burdwan	16.08 to 18/08, 2020
6	Chief Speaker/Gu est Speaker	Whither Humanity: Environmental Challenges, Pandemics and the search for a better tomorrow	Abhedananda Mahavidyalaya, Sainthia	05/06/21
7	Chief Speaker/Gu est Speaker	One-Day State Level Webinar on Ecosystem Restoration towards Sustainable Society	ABN Seal College, Cochbehar	05/06/21
8	Guest Speaker	Speaker in the Seminar of World Environmental Day	Environmental Science Discipline Khulna University Khulna-9208, Bangladesh	05/06/21
9	Chief Speaker & Judge	Celebration of World Environment Day	Deptt. of Geography of Swami Dhananjoy Das Kathiababa Mahavidyalaya, Bhara, Bankura	5 th June 2021
10	Chief Speaker/Gu est Speaker	Celebrating 47th World Environment Day, 2021 One Day National Webinar on Ecosystem Restoration: Striving Towards Sustainability	Department of Geography (Day & Hindi Shift) Under the aegis of IQAC, Banwarilal Bhalotia College, Asansol, West Bengal, India	05/06/21
11	Chief Speaker/Gu est Speaker	Observance of World Environment Day	Organized by J.K. College, Purulia, 2021	05/06/21 & 06/06/21
12	Chief Speaker/Gu est Speaker	TWO DAYS' INTERNATIONAL WEBINAR ON SUSTAINABLE	Department of Geography, Kandra Radha Kanta Kundu Mahavidyalaya, Burdwan-713129, West Bengal, India	29/07 & 30/07/2020

		DEVELOPMENT July 29 30, 2020		
13	Resource Person	Online Certificate Course on Environmental Impact Assessment and Its Environmental Applications	Organised by CERED (Centre for Environment, Research and Development); Friends of Environment	12/9 & 13/09/2020
14	Resource Person	Online workshop on Green Audit/Environmental Audit before the members of IQAC-NAAC Core Committee	SYAMSUNDAR COLLEGE, SHYAMSUNDAR BURDWAN – 713424, W.B	24.04.2021
15	Resource Person	National Webinar titled "Future of Higher Education in India in response to ongoing pandemic: New Demand, New responsibilities	Organized by IQAC, Syamsundar College in association with IQAC, Burdwan Raj College.	20/08/2020
16	Chief Speaker/Gu est Speaker	Online Workshop on Research Patents and Development of Industry- Academia Collaboration	Organized by IQAC, USTM, Meghalaya	23/07/20
17	Chief Speaker/Gu est Speaker	One day National Level e- conference on Environment in the Age of COVID 19 Chairperson	Hariharpur Friends of Environment in Collaboration with Deecan Environmental Research Organisation	9/05/2021
18	Guest Speaker	Webinar on Implementation of National Education Ploicy (NEP) 2020	Institute of Engineering & Management, Kolkata, Saltlake, WB	24/05/2021
19	Resource Person	Faculty Induction Programme (FIP)-01 Resource Person	UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, GAUHATI UNIVERSITY: GUWAHATI – 781 014	23.09.2020
20	Resource Person	Faculty Induction Programme (FIP)-02	UGC-HUMAN RESOURCE DEVELOPMENT CENTRE, GAUHATI UNIVERSITY: GUWAHATI – 781 014	12.10.2020
21	Resource Person/ Guest Speaker	in the One-day National level Webinar on "Warning to Humanity: Microorganisms and Climate Change"	Nabadwip Vidyasagar College, Nabadwip, Nadia, West Bengal.	28.07.2020
22	Chief Speaker	National Level Webinar on "Aspects of Biodiversity and Climate Change Issue in the Present Scenario"	Depts. of Zoology, Mathematics, & Environmental Studies Unit under the aegis of IQAC, Netaji Nagar Day College, Kolkata in	3/09/2020

			collaboration with Hariharpur Friends of Environment Society	
23	Resource Person/ Guest Speaker	Webinar on 'Future of Higher Education in India in response to ongoing pandemic: new demand, new responsibilities', scheduled on	Shyamsundar College, Shyamsundar, Purba Bardhaman	20/08/2020
24	Reviewer	Certificate of Excellence in Review	Asian Journal of Environment & Ecology	2020
25	Chairperson in Technical Session	10 th International Conference on Sustainable Waste Management towards Circular Economy	International Society of Waste Management, Air and Water (ISWMAW), etc.	07.12.2020
26	Resource Person/ Guest Speaker	Online Workshop-cum- Meeting with IQAC- Shyamsundar College on "Green Audit" of this college.	Shyamsundar College, Shyamsundar, Purba Bardhaman	24/04/2021
27	Guest Speaker	International Webinar on "Ecology, Restoration and Management" CELEBRATING "WORLD ENVIRONMENT DAY 2021"	Organised by International Academy of Science and Research (IASR), Kolkata; Barrackpore Rastraguru Surendranath College, Dist North 24 Pgs., West Bengal and Scientific and Environmental Research Institute (SERI), West Bengal.	12 to 14 June 2021
28	Guest Speaker and Judge	Celebration of WED 2021 Guest Speaker & Judge	TDB College, Raniganj	5 th June 2021
29.	Resource Person	Seven day National workshop cum hands-on training Programme on Transmission Electron Microscopy	USIC, BU	March, 2020

C. LIST OF ACTIVITIES 2021 – 2022

Sl No.	Position	Name of the Event	Organised by	Date
1	Invited	Pasaarah Mathadalagu	Consequetion Piology	24.07.21
1		Research Methodology	Conservation Biology	24.07.21
	Speaker	Part - I	Durgapur Govt. College, Paschim	
			Bardhaman	
2	Special	One Day Webinar on	Department of Environmental	August 07,
	Lecture	"ENVIRONMENTAL	Science	2021
		SCIENCE: THE CARREAR	Sidho-Kanho-Birsha University,	

		OPPORTUNITY"	Purulia	
3	Invited	Research Methodology	Conservation Biology	07.08.21
	Speaker	Part - II	Durgapur Govt. College, Paschim	
			Bardhaman	
4	Special	Academic Audit	Institute of Engineering &	23.08.2021
	Lecture		Management, Kolkata	
5	Key note	NAAC granted Virtual	Internal Quality Assurance Cell	Sept. 1 & 2,
	Speaker	Seminar on 'Innovative	(IQAC)	2021
		Teaching - Learning	Institute of Engineering &	(Scheduled)
		Practices Pertaining to	Management.	
		Sustainable Academic		
		Growth In Higher		
		Educational Institutes'		
6	Observer	WBSET,2022 At Asansol	WBCSC	Jan, 2022
		Girls' College		
7	Resource	Seminar on "Environmental	Bankura Zilla Saradamani Mahila	March,2022
	Person	Pollution and Its Hazardous	Mahavidyapith	
		Effect On The Society" and		
		a workshop on "Data Input		
		for AQARs by NAAC"		
8	Co-	23 th WBSET question setting	WBCSC	July,2021
	ordinator	and moderation committee		

C. LIST OF ACTIVITIES 2022 – 2023

Sl No.	Position	Name of the Event	Organised by	Date
1	Virtual Plenary Talk	International Meet on Toxicology (TOXICOLOGYMEET2022) Webinar	Albedo	October 28,2022
2	Keynote Speaker	1 st International Conference on Environment-2022	Environmental science discipline, Khulna University	Feb-2022
3	Joint co- ordinator	24 th WBSET question setting and moderation committee	WBCSC	May,2022
4	External member for Green audit	-	Mankar College	July,2022
5	Resource Person	Observance of the World Environment Day	Deshabandhu Mahavidyalaya, Chittaranjan	June,2022
6	Resource Person	Seven Day Faculty Development Programme on " Preparedness for the Revised Accreditation	Sree Chaitanya Mahavidyalaya	September, 2022

		Freamework,2022"		
8	External	M.Sc (Ag.) degree viva-voce	Bidhan Chandra Krishi	August, 2022
	Examiner	in Agricultural Mateorology	Viswavidyalaya	
9	Subject	-	Sambhu Nath College	Nov,2022
	Experts for			
	the			
	Selection/			
	Screening			
	Committee			
10	External	Academic Audit	Siksha-Bhavana, Visva-	Nov,2022
	Member		Bharati	
11	External	Green Audit	Sree Gopal Banerjee College	Dec, 2022
	Member			
12	Resource	Seven day National workshop	USIC, BU	February,2023
	Person	cum hands-on training		
		Programme on Transmission		
		Electron Microscopy		
13	Speaker	30 th West Bengal State Science	Science city auditorium	March,2023
		and Technology Congress		
14.	Subject	CAS promotion interview	Sambalpur University	June, 2023
	expert			
15	External	Green Audit	Sri Ramkrishna Sarada Vidya	July, 2023
	Member		Mahapitha	
16	Member	Academic/Administrative	Netaji Mahvidyalaya	September,
		Audit		2023
17	Invited	Topic- Sustainability and	National Seminar on	November,
	Lecture	ecological Restoration	Development with Dignity	2023