



Name DR. ARNAB BASU

1	Name	DR. ARNAB BASU			
2	Designation	STATE AIDED COLLEGE TEACHER (GRADE 1)			
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4	Contact No	+919836405821			
5	Date of Joining	30.10.2009			
Academic qualifications					
	Degree	Subject	University	Year	
6	Ph.D	LIFE SCIENCES	JADAVPUR UNIVERSITY	2017	
	M.Phil	NA	NA	NA	
	MA/M.sc	ZOOLOGY	CALCUTTA UNIVERSITY	2009	
	BA/B.Sc	ZOOLOGY	CALCUTTA UNIVERSITY	2007	
	PH.D. DETAILS				
7	Title of the Thesis	ECOLOGICAL ASSESSMENT, PRODUCTIVITY AND CONSERVATION OF THE FISHERY RESOURCES OF ICHAMATI RIVER			
	Field of specialization under subject/ discipline	FISHERIES AND AQUACULTURE			
8	PREVIOUS POSITIONS/Engagement	GOVT. APPROVED PART-TIMER LECTURER AT VIDYASAGAR COLLEGE			
9	Google scholar page:	http://scholar.google.com/citation?hl=en&user=MHkQ9Q8AAAAJ			
10	ORCID ID	0000-0002-5381-795X			
11	HONOURS AND AWARDS	ANNEXURE 1			
12	CURRENT RESEARCH	ANNEXURE 2			
	PROJECT/Field of Research				
13	TECHNICAL UNDERSTANDING	<ol> <li>Certificate in Information Technology, YCTC, Govt. of West-Bengal.</li> <li>Certificate in R-STAT, The Centre for Environment and Economic Development, New Delhi.</li> <li>EXPERTISE ON SPSS, PAST, GRAPHPAD AND ORIGINPRO STATISTICAL SOFTWARES.</li> </ol>			
	AND EXPERIENCE				
		IN RO STATISTICAL SO	I I WAND.		
14	SUMMARY OF RESEARCH	16 YEARS OF RE	16 YEARS OF RESEARCH EXPERIENCE.		
	EXPERIENCE	RESEARCHED ON DIFFERENT AQUACTIC COMMUNITIES, BIOLOGY OF			
		DIFFERENT FISH SPECIES.			
15	EXPERIENCE OF PROJECT	SUPERVISED M.SC. STUDENT DISSERTATION PROJECTS SINCE 2017.			
	MANAGEMENT				
16	COMPLETE LIST OF	ANNEXURE 3			
PUBLICATIONS					
	(Maintain Harvard Format)				
17	Extracurricular Activities	PAINTING, PLAYING FOOT-BALL			
18	Link to personal website (if any)	NA			

### **ANNEXURE 1**

## **HONOURS AND AWARDS:**

- 1. **Awarded 3<sup>rd</sup> prize** in **National seminar** on 'Natural and anthropogical hazards of environment' organized by Department of Zoology, Vidyasagar College, Kolkata held on and from 9/12/2011 to 10/12/2011.
- 2. **Awarded special Achievement prize in International conference** on "India Biodiversity Meet 2015" organized by Indian Statistical Institute, Kolkata held on and from 16/11/15 to 18/11/15.
- 3. Awarded 1st prize in Taxonomy and systematics in International conference on 'Aquatic resources and sustainable management' organized by Central Calcutta Science & cultural organization for youth in co-operation with Ministry of agriculture, Earth-Sciences, Govt. Of India; Department of Fisheries, Science & Technology, Biotechnology, Govt. Of West Bengal and University of Calcutta held on and from 17/2/16 to 19/2/16.
- 4. Winner of World Championship 2019 in Threatened Taxa.

## **MEMBERSHIPS**

- 1. Life member of Zoological Society, Kolkata.
- 2. Life member of Inland Fisheries Society of India.

# **ANNEXURE 2**

# **Present Research Activities:**

- a. Assessment of environmental pollution levels of different aquatic ecosystems.
- b. Drinking water quality analysis of different districts of West-Bengal.
- c. Reproductive biology of fishes.
- d. Feed formulation and its effect on growth performance of different fishes.
- e. Toxicological effect of heavy metals on fishes.
- f. Biology of fresh water prawns.
- g. Ecology and behaviour on butterflies, birds and fishes.

### ANNEXURE 3

## **Publications**

### **Journal Articles**

- 1. Sarkar, I., Basu, A., Dutta, S. and Roy, S. (2012). *Male mating activity in freshwater prawn, Macrobrachium dayanum (Henderson, 1893) Palaeomonidae: caridae*. International Journal of Aquatic science. 3(2): 56-70.
- 2. Basu, A., Sengupta, S., Mondal, D., Kundu, G. and Roy, S. (2013). *Primary productivity and alpha-radioactivity in selected managed and unmanaged ponds at East-Calcutta wetlands*. Indian journal of Environmental protection. 33(9): 729-736.
- 3. Basu, A., Sengupta, S., Dutta, S., Saha, A., Ghosh, P. and Roy, S. (2013). *Studies on macrobenthic organisms in relation to water parameters at East-Calcutta wetlands*. Journal of Environmental Biology.34(4): 733-737.
- 4. Basu, A., Mondal, D., Roy, D., Choudhury, S., Datta, S. and Roy, S. (2013). *The composition, diversity and population dynamics of zooplankton in river Ichamati, West Bengal (India)*. International journal of advanced life sciences.6(4): 380-389.
- 5. Sarkar, I., Roy, S., Datta, S. and Basu, A. (2013). Reproduction behaviour and dwarf male mating strategies of Macrobrachium lamarrei lamarrei (H. Milne Edwards, 1837) (Decapoda, Palaemonidae) in laboratory aquaria. International journal of advanced life sciences.6(5): 480-489.
- 6. Bhanja, D., Ghosh, J., Basu, A., Kundu, G., Ghosh, P. and Roy, S. (2013). *Dynamics of plankton community in two adjacent unmanaged ponds of West Bengal, India*. Bioscience Discovery. 5(2): 241-247.
- 7. Sarkar, I., Basu, A., Dutta, S. and Roy, S. (2015). Fecundity of two freshwater prawns, Macrobrachium lamarrei lamarrei and M. dayanum. J. Inland Fish. Soc. India. 47(1): 69-73.
- 8. Basu, A., Roy, S., Sarkar, I., Dhara, K. and Datta, S. (2015). Seasonal changes in ovarian maturation of an Asian cat fish, Mystus vittatus (Bloch, 1797) in captivity. Biolife.3(3): 620-628.

- 9. Das, U., Basu, A. and Roy, S. (2016). *Physico-chemical analysis of drinking water in different districts of southern West Bengal, India*. Scientific Research Reporter. 6(2):119-125.
- 10. Sarkar, I., Basu, A. and Roy, S. (2016). Chromosome analysis of two freshwater prawns, Macrobrachium lamarrei lamarrei (H.Milne Edwards, 1837) and Macrobrachium dayanum (Henderson, 1893). J. Inland Fish. Soc. India. 48(1): 102-106.
- 11. Basu, A., Sarkar, I., Datta, S. and Roy, S. (2018). *Community structure of benthic macroinvertebrate fauna of river Ichamati*, India. Journal of Threatened Taxa.10(8):12044-12055.
- 12. Das, M., Basu, A. and Ambiya, M.G. (2024). A study on the diversity of butterfly (Insecta: Lepidoptera) fauna in Buxa Tiger Reserve West Bengal India. International Journal of Entomology Research. 9 (2): 40-50.
- 13. Sarkar, I., Datta, T., Choudhary, S.S., Basu, A., Tarafdar, S.K. and Majumdar, S. (2024). Comparative study of structural variations in gill rakers of different marine and freshwater herbivore and carnivore fishes. Journal of entomology and Zoology studies.12(5): 118-124.
- 14. Basu, A., Bej, A., Mondal, M. and Mistry, I. (2024). *Histological analysis of the gonadal Development in fantail Goldfish (Carassius auratus)* Journal of entomology and Zoology studies.12(5): 145-151.
- 15. Basu, A., Mistry, I., Bej, A., and Mondal, M.(2024). A study on fish marketing system in Kolkata and adjoining areas. International Journal of Fisheries and Aquatic studies.12(6): 8-15.

## **Book chapters**

1. Basu, A., Roy, S., Sarkar, I., Das, U. and Datta, S. (2018). Zooplankton diversity in the upper reaches of river Ichamati, West Bengal. Sustainable Management of Aquatic Resources. Chapter 17. Narendra Publishing House, Delhi, India. Pages 199-210.

- 2. Sarkar, I., Singh, S., Basu, A. and Roy, S. (2018). *Embryonic development of black molly. Sustainable Management of Aquatic Resources*. **Chapter 25**. Narendra Publishing House, Delhi, India. Pages 321-328.
- 3. Sarkar, I., Ray, D., Basu, A. and Roy, S. (2018). Breeding behaviour and the structure of gonopodium of black molly (Poecilia sp.). Sustainable Management of Aquatic Resources. Chapter 27. Narendra Publishing House, Delhi, India. Pages 353-365.
- 4. Basu, A., Roy, S., Datta, S. and Ghosh, D. (2021). Seasonal variations of alpha radioactivity in the river Ichamati, India. Recent trends on Environmental science and applied ecology. Chapter 11. Bhumi publication, Maharashtra, India.1: 100-108.