

Mahmud Hasan

Contact Information	Department of Fisheries University of Dhaka, Dhaka-1000, Bangladesh	Contact: +88 01715 509796 E-mail: mhasan@du.ac.bd Website: www.du.ac.bd
Objectives	Education, Teaching and Research in Fisheries Science	
Research Interests	Fish Seed Quality, Aquaculture, livelihoods and Fish Physiology	
Education	Asian Institute of Technology (AIT), Thailand Ph.D. Aquaculture and Aquatic Resources Management, 2002-2007 University of Dhaka, Dhaka-1000, Bangladesh M. Sc. in Zoology (Specialization in Fisheries), 1988 University of Dhaka, Dhaka-1000, Bangladesh B. Sc. (Hons.) in Zoology, 1984-1987	
Research Experience	Fisheries Biologist Bangladesh Flood Action Plan (FAP)-17, ODA, UK in collaboration with GOB <ul style="list-style-type: none">• Catch assessment (CAS) and fishing effort survey (FES) of the open water fisheries of Bangladesh• Identification of freshwater fishes• Measurement of water quality parameters, fishing gear description	1992-1993
Teaching Experience	Professor Department of Fisheries, University of Dhaka <ul style="list-style-type: none">• Inland Aquaculture and Research Methodology at undergraduate and Statistics at post graduate level.• Population dynamics at MS and M.Phil./Ph.D. levels• Setting question, administering practical exams• Working as chairman of the exam committee• Working as a member of Academic council and faculty of Biological Sciences of Dhaka University	March 31, 2011 to present

Associate Professor

Department of Fisheries, University of Dhaka

May 26, 2008 to March 30, 2011

- Teaching Hatchery and Pond Management course at undergraduate level, Biostatistics, Research methods, Project Management, Population dynamics at MS and M.Phil./Ph.D. levels
- Setting question, administering practical exams
- Working as chairman of the exam committee

Assistant Professor

Department of Fisheries, University of Dhaka

July 4, 2004 to May 25, 2008

- Teaching Limnology, Fisheries Systematic and Hatchery and Pond management at Undergraduate level and Biostatistics, Research methods, aquatic seed production technology at post graduate level.
- Setting question and manuscript evaluation for the above mentioned courses
- Working as a Committee member to administer practical and oral tests
- Practical Classes on Fisheries Taxonomy, Limnology and hatchery

Lecturer

Department of Fisheries, University of Dhaka

August 2000– to July 3, 2004

- Teaching at Undergraduate level on Limnology, Fisheries Systematic and Hatchery and Pond management
- Setting question and manuscript evaluation for the above mentioned courses
- Working as a committee member to administer practical and oral tests
- Practical classes on Fisheries Taxonomy, Limnology and Fish Hatchery

Lecturer

Dhaka College, Bangladesh

January 27 –August 13,
2000

- Teaching Invertebrate, Vertebrate Zoology at Higher Secondary, Statistics, Limnology and Aquaculture at Post graduate level
- Practical Classes on Fish Taxonomy, Museum study and dissection
- Manuscript evaluation at Undergraduate and Post graduate levels

LecturerGovt. Rajendra College, Faridpur,
BangladeshNovember 16, 1993-
January 26, 2000

- Teaching Zoology at Higher Secondary and Undergraduate levels
- Evaluation of manuscript, setting question and administering both theory and practical examinations
- Teaching Genetics & Evolution at Higher Secondary Level
- Teaching Genetics, Cytology, Ecology, Embryology and Invertebrate and Vertebrate Zoology at Undergraduate level
- Performing as Professor-in-Charge in Student Union

Administrative
Experience**Chairman**Department of Fisheries, University of
DhakaMarch 29, 2007 to March
28, 2010

- Administering and controlling other non-teaching staffs
- Marinating liaisons with other offices
- Working as a member of Academic council and faculty of Biological Sciences of Dhaka University

Journal
Publications

1. Zahid, A., Fatema, K., Hassan, R. and **Hasan, M.** 2021. Growth performances and nutrient compositions of Pabda *Ompok bimaculatus* (bloch, 1797) grown in Recirculating and closed aquaculture systems. J. Asiat. Soc. Bangladesh, Sci. **47**(1): 1-12.
2. Haque M. Inja-Mamun, Alam, A.S.M. Rubayet Ul, Akter, N. Siddique, M. A., Sultana, M., Hossain, M. A., **Hasan, M.**

2020. Molecular characterization of ‘tubifex worms’ based on 16S rRNA and cytochrome c oxidase subunit I. *Aquaculture Reports* 16 1002922.
3. **Hasan, M.**, MIM Haque, N Akter, MS Rahman and AS Eti. 2019. Effects of wetting media cattle blood, rice gruel and water on the yield and amino acid composition of tubificid worms. *Journal of the Asiatic Society Bangladesh Science*, **45**(2): 249-259.
 4. **Hasan, M.** 2018. Optimization of high density long duration transportation of silver carp (*Hypophthalmichthys molitrix*) and rui (*Labeo rohita*) fingerlings. *The Dhaka University Journal of Biological Sciences*, 2018, **27**(1): 9-16. <https://doi.org/10.3329/dujbs.v27i1.46406>
 5. Siddique, MA, MIM Haque, S K Sanyal, A Hossain, S P Nandi, A.S.M RU Alam, M Sultana, **M Hasan** and M. A Hossain. 2018. Circulatory white spot syndrome virus in South-West region of Bangladesh from 2014 to 2017: molecular characterization and genetic variation. *AMB Expr* (2018) 8:25.
 6. Hasan, M.A.R., M.I. Haque, A. Hossain, **M. Hasan** and M.S. Rahman. 2017. Bacterial loads in shrimp and fish hatchery environments of Bangladesh. *Journal of Asiatic Society of Bangladesh, Sciences*. 43 (1): 37-47.
 7. Hossain, M.A., A. Ganguly, S.M.A. Rahman, A. Hossain, **M. Hasan** and M.S. Rahman. 2016. Amino acid profile of the gelatin extracted from the scales of catla, rohu, grass carp and their mixed type. *Bangladesh Journal of Zoology*, 44 (2): 185-195
 8. Hasan, M.A.R., M.A. Siddique, **M. Hasan**, M.A. Hossain and M.S. Rahman. 2017. 16S rRNA gene sequence based identification of *Vibrio* spp. in shrimp and tilapia hatcheries of Bangladesh. *Dhaka Univ. J. Biol. Sci.* 26 (1): 45-58
 9. **Hasan M.**, Rahman M. M., Hossain A., and Rabbane M. G. 2014. Sperm and egg quality in catla and rui between spawning seasons in Bangladesh. *J. Asiat. Soc. Bangladesh, Sci.* **40**(2): 231-241,
 10. **Hasan, M.**, Arifa Rahman, S.M. Mahbubur Rashid and Salim Ahmed. 2014. Effects of tertiary amyl alcohol, 2-Phenoxyethanol, Quinaldine and Benzocaine on the mortality and RNA: DNA ratio in catla fingerlings. *Journal of the Asiatic Society of Bangladesh, Sciences*, **40**(1): 121-131.
 11. **Hasan, M.**, Nadia Islam Pinky, Md. Alamgir Kabir, Salim Ahmed and S.M. Mahbubur Rashid. 2013. Performances of 2 phenoxyethanol, and quinaldine with oxygen in the live truck transportation of rohu fingerlings. *Journal of the Asiatic Society of Bangladesh Sciences*, **39**(2): 201-209.

12. **Hasan, M.**, Hossain A., Mandal S.C. and Haque, W. 2013. Effects of transport media and duration on the mortality and physiological responses in silver carp *Hypophthalmichthys molitrix* fingerlings. *Dhaka University Journal of Biological Sciences*. **22**(1): 55-62.
13. Kabir, M. A., Habib, M. A., **Hasan, M.** and Alam, S.S. 2012. Genetic diversity in three forms of *Anabas testudineus* Bloch. *Cytologia*: **77**(2): 231-237.
14. Hossain, A., Mollah, F.M.A. and **Hasan, M.** 2012. Ratio Optimisation of Media Ingredients for Mass Culture of Fish Live Food Tubificid Worms in Bangladesh. *Asian Fisheries Science*, **25**: 357-368.
15. Rahman, M.M., Rahman, M.S. and **Hasan, M.** 2011. Changes in Sperm Quality in Silver *Hypophthalmichthys molitrix* and Bighead Carp *Hypophthalmichthys nobilis* During Breeding Season in Bangladesh. *Asian Fisheries Science*, **24**: 413-425.
16. **Hasan, M.**, Al-Mamun, A. and Rabbane, M.G. 2011. Haematological profile of Thai and indigenous male and female air breathing climbing perch. *Dhaka University Journal of Biological Sciences*, **21**(1): 67-72.
17. Akter, A., Rahim, M. and **Hasan, M.** 2010. Effects of Aflatoxin B1 on the Growth and Bioaccumulation in Common Carp Fingerling in Bangladesh. *Asia-Pacific Journal of Rural Development*, **20**(2): 1-14.
18. Mahmud, Z.H., Wright, A.C., Mandal, S.C., Dai, J., Jones, M.K., **Hasan, M.**, Rashid, M.H., Islam, M.S., Johnson, J.A., Guling, P.A., Morris, G. and Ali, A. 2010. Genetic Characterization of *Vibrio vulnificus* Strains from Tilapia aquaculture in Bangladesh. *Applied and Environmental Microbiology* **76**(14): 4890-4895.
19. Sarker, B.S., **Hasan M.**, Rahman, M.S. and Rahman, A.F.M. 2009. Non-conventional fishery by-products of fish markets in Dhaka metropolis, Bangladesh. *Asia-Pacific Journal of Rural Development* **19**(2): 57-72.
20. **Hasan, M.** 2009a. Carp Seed Transport in Bangladesh. *Asia-Pacific Journal of Rural Development*, **19**(1): 155-168.
21. **Hasan, M.** 2009b. Responses of silver carp *Hypophthalmichthys molitrix* fingerlings to loading density and transport stress. *Bangladesh Journal of Zoology*, **37**(1): 133-145.
22. **Hasan, M.** 2009c. Effects of loading density and transport duration on the mortality and physiological responses in rohu, *Labeo rohita* fingerlings without hand agitation. *Journal of the Asiatic Society Bangladesh Sciences*, **35**(1): 107-111.
23. **Hasan, M.** 2009d. Effects of salt (sodium chloride) on the mortality in common carp *Cyprinus carpio* fingerlings. *Journal of the Asiatic Society Bangladesh Sciences*, **35**(2): 209-213.

24. Khan, M.S. and **Hasan. M.** 2009. Grazing effects of freshwater copepod, *cyclops* sp. on *Anabaena variabilis* and natural assemblages of phytoplankton: its role in the transmission of *Vibrio cholerae* O1 from *Anabaena variabilis* to copepod. *Dhaka University Journal of Biological Sciences*, **18**(2): 137-146.
25. Mandal, S.C., **Hasan, M.**, Rahman, M.S., Manik, M.H., Mahmud, Z.H. and Islam, M.S. 2009. Coliform Bacteria in Nile Tilapia, *Oreochromis niloticus* of Shrimp-Gher, Pond and Fish Market. *World Journal of Fish and Marine Sciences*, **1**(3): 160-166.
26. Rahman, M.S. and **Hasan. M.** 2009. Incidence of *Vibrio cholerae* in freshwater fishes in fish markets of Dhaka Metropolitan city, Bangladesh. *Bangladesh Journal of Zoology*, **37**(1): 113-121.
27. **Hasan, M.** 2008a. Conditioning improves performance of survival and reduces stress responses in silver carp *Hypophthalmichthys molitrix* fingerling. *Bangladesh Journal of Zoology*, **36**(1): 59-67.
28. **Hasan, M.** 2008b. Responses of Indian Major carp rui *Labeo rohita* fingerlings to confinement density and duration stress. *Dhaka University Journal of Biological Sciences*, **17**(2): 79-85.
29. **Hasan, M.** and Bart, A. N. 2007a. Improved survival of rohu, *Labeo rohita* and silver carp *Hypophthalmichthys molitrix* fingerlings using low-dose quinaldine and benzocaine during transport. *Aquaculture Research*, **38**(1): 50-58.
30. **Hasan, M.** and Bart, A. N. 2007b. Effects of capture, loading density and transport duration on the physiological responses and survival, health and growth of rohu, *Labeo rohita* fingerlings. *Fish Physiology and Biochemistry*, **33**(3): 241-248.
31. **Hasan, M.** 2007. Effects of confinement density and duration on the mortality and physiological responses of silver carp, *Hypophthalmichthys molitrix* Val. fingerlings. *Bangladesh Journal of Zoology*, **35**(1): 87-94.
32. **Hasan, M.** and Bart, A. N. 2006. Carp seed traders of Bangladesh: Sources of livelihoods and vulnerability resulting from fish seed mortality. *Asia-Pacific Journal of Rural Development*, **16**(2): 101-124.
33. **Hasan, M.** 2006a. Effects of hand agitation and loading density on the mortality and physiological responses in silver carp *Hypophthalmichthys molitrix* Val. fingerlings. *Journal of the Asiatic Society Bangladesh Sciences*, **32**(1): 141-148.
34. **Hasan, M.** 2006b. Effects of low level NaCl on the live transport of silver carp, *Hypophthalmichthys molitrix* fingerlings. *Dhaka University Journal of Biological Sciences*, **15**(1): 31-38.
35. **Hasan, M.**, Rabbane, M.G., Islam, M.M. and Rahman, A.F.M.A. 2005. Effects of low-level salinity on egg hatching and larval

rearing of tilapia (*Oreochromis niloticus*). *Dhaka University Journal of Biological Sciences*, **14**(1): 91-94.

36. **Hasan, M.** 2003. Growth and Feed utilization of Tilapia (*Oreochromis niloticus* Linn.) fed with different protein sources with and without vitamin. *Dhaka University Journal of Biological Sciences*, **12**(2): 105-113.
37. **Hasan, M.** 2002. Growth study of grass carp, *Ctenopharyngodon idella* Vallencinnes in natural wares. *Dhaka University Journal of Biological Sciences*, **11**(2): 199-202.
38. **Hasan, M.**, and Latifa, G.A. 2002. Fishing Gears of North Bengal, Bangladesh I: Gill, Seine and Bag nets. *Dhaka University Journal of Biological Sciences*, **11**(1): 97-99.
39. **Hasan, M.**, Ali, M.S. and Naser, M.N. 2001. Rotifers of The Lake Dhanmondi, Dhaka. *Dhaka University Journal of Biological Sciences*, **10**(1): 85-89.
40. **Hasan, M.**, Ali, M.S. and Naser, M.N. 1995. Seasonal Occurrence of Microcrustacean Zooplankton in Dhanmondi Lake, Dhaka, Bangladesh. *Journal of the Asiatic Society Bangladesh Sciences*, **21**(1): 97-102.
41. **Hasan, M.**, Ali, M.S. and Naser, M.N. 1994. On The Natural Productivity of Dhanmondi Lake, Dhaka. *Dhaka University Journal of Biological Sciences*, **3**(1): 59-63.

Membership

Life member

Zoological Society of Bangladesh and Bangladesh Fisheries Research Forum;

Member

Asiatic Society, Bangladesh

Reviewer

1. Aquaculture Research
2. Aquaculture Reports
3. Bangladesh Journal of Zoology
4. Journal of the Asiatic Society Bangladesh Sciences
5. Bangladesh Journal of Academy of Science
6. Dhaka University Journal of Biological Sciences
7. PLOS ONE

Key research
Grants

Principal Investigator

Project title: Whole Genome sequencing of stinging catfish *Heteropneustes fossilis* (2020-2021)

Funding: Centennial Research Grants, University of **Dhaka**

Principal Investigator

Project title: Development of probiotics for increased production of stinging catfish, *Heteropneustes fossilis* (2020-2021)

Funding: Ministry of Science and Technology, GoB

Principal Investigator

Project Title: Piloting the off farm commercial culture of fish live food tubificid worms (January 2017).

Funding: Asiatic Society, Bangladesh

Principal Investigator

Project Title: Off farm commercial culture of fish live food tubificid worms and their genetic characterization (June 2015).

Funding: Ministry of Education, Govt. of the People's Republic of Bangladesh

Principal Investigator

Project Title: Optimization of Loading Density and Oxygen Pressure Required for High Density Long Duration Safe Transport of Silver Carp, Catla and Rohu Fingerlings (June 2013).

Funding: Ministry of Science and Technology, Govt. of the People's Republic of Bangladesh

Principal Investigator

Project Title: Use of anesthetics in the live land transport of silver carp, catla and rohu fingerlings (June 2011).

Funding: Ministry of Education, Govt. of the People's Republic of Bangladesh

Principal Investigator

Project Title: Mass Culture of Fish Live Food Tubificidworms in Bangladesh (June 2010).

Funding: Ministry of Science and Technology, Govt. of the People's Republic of Bangladesh

Principal Investigator

Project Title: Egg and Sperm quality of Indian major and Chinese carps in Bangladesh (June 2009).

Funding: Ministry of Science and Technology, Govt. of the People's Republic of Bangladesh

Awards

Research Award (May 2004)

SUFER Project, DFID, UK on the "Effects of transport related stress and mortality of rohu and silver carp fingerlings". (Position: Principal Investigator)

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References

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