



## Shahrear Hemal

### Assistant Professor

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#### Area of Specialization

Biofloc, RAS, Mariculture, Freshwater Aquaculture

#### Research Interests

Fish Feed, Fish Nutrition, Biofloc, RAS, Mariculture, Freshwater Aquaculture, Aquaculture System Engineering

#### Education

<b>International course</b>	<b>Responsible Aquaculture Development, 2022</b> Wageningen Centre for Development Innovation (WCIDI), Wageningen, the Netherlands
<b>Masters</b>	<b>MS in Aquaculture, 2017</b> Department of Aquaculture, Sylhet Agricultural University, Sylhet-3100, Bangladesh
<b>Bachelor</b>	<b>B.Sc. Fisheries (Hons.), 2015</b> Faculty of Fisheries, Sylhet Agricultural University, Sylhet- 3100, Bangladesh

#### Teaching Experience

- Worked as **Assistant Professor** in the Department of Aquaculture (2020/12/27 to Present)
- Worked as **Lecturer** in the Department of Aquaculture (27/12/2018 to 26/12/2020)

#### Professional Experience

- Worked as **Extension Officer** in National Agricultural Technology Phase II Project (NATP-2), Department of Fisheries, Bangladesh. (28.11.2017 to 19.12.2018)

## Research Grants and Projects

- “Identify the potential and cost-effective organic carbon sources for floc formation in Biofloc shing (*Heteropneustes fossilis*) culture system in Bangladesh” Served as **Project Director**. Funded by R&D Project Grant of Ministry of Science and Technology, Bangladesh. (Status: Completed). [Year: 2019-2020]
- “Investigation on different stocking densities, growth response and survival rate of gulsha (*Mystus cavasius*) in biofloc system” Served as **Project Director**. Funded by R&D Project Grant of Ministry of Science and Technology, Bangladesh. (Status: Completed). [Year: 2020-2021]

## Awards

- **NST Fellowship** of Ministry of Science and Technology, Bangladesh, For MS Research Work, 2016.
- **Chancellor’s award**, Sylhet Agricultural University, Sylhet-3100, For Academic Excellence, 2018.

## Training Attended

- a) Six-day long Training on “**Basic Biotechnology**” from 02-07 April, 2016 arranged by National Institute of Biotechnology, Savar, Dhaka.
- b) Two days long Training on “**BFRI Evolved Technology**” from 13-14 August, 2016 arranged by Bangladesh Fisheries Research Institute, Mymensingh.
- c) Six days long Training on “**Financial and Procurement Management**” from 10-15 March, 2018 held in BARC Complex, Farmgate, Dhaka-1215.
- d) Twelve days long Training on “**Basic Aquaculture and Agricultural Extension**” from 15-26 April, 2018 arranged by PIU, National Agricultural Technology Program Phase-II Project (NATP-2).
- e) Day long training on “**Responsibilities of Teachers, Outcome Based Education and Different Rules and Regulations**” coordinated by Directorate of Outreach Program, Sher-e-Bangla Agricultural University (SAU), Dhaka-1207, Bangladesh in 2019.
- f) Day long Training on “**Teaching Learning, Assessment and Implementation of outcome Based Curriculum**” by IQAC Sher-e-Bangla Agricultural University, 26 January, 2019.
- g) Day long Training on “**Advance Technology for *Spirulina* Production**” by Department of Horticulture, Sher-e-Bangla Agricultural University, 11 December, 2020.

## Publications

- Hemal, S.**, Uddin, M. S., Uddin, M. S., Majumdar, B. C., Rasul, M. G., & Alam, M. T. (2017). Present status and problems of fish seed marketing in Sylhet district, Bangladesh. *Research in Agriculture Livestock and Fisheries*, 4(1), 45-54.
- Ahammad, B., Hamom, A., Islam, M. S., Shobo, S. A., **Hemal, S.**, & Bhattacharjee, D. (2017). Impact of technology on fish production in north east region of Bangladesh. *International Journal of Fisheries and Aquatic Studies*, 5(4), 112-117.

- Islam, M. M., **Hemal, S.**, Alam, M. T., Sayeed, M. A., Islam, M. M., Uddin, M. S. (2018). Effect of Feed and Fertilizer on Production of Monosex Tilapia (*O. niloticus*) Farming in Pond. International Journal of Agriculture, Forestry and Fisheries, 6(3), 40-44.
- Akter, R., Uddin, M. S., Islam, M. S., Dey, T., **Hemal, S.** and Chadnee, F. K. (2019). Status of ornamental fishes along with health issues in Sylhet division of Bangladesh. International Journal of Fisheries and Aquatic Studies, 7(4), 356-360.
- Kubra, K., Hoque, M. S., Hossen, S., Husna, A. U., Azam, M., Sharker, M. R., **Hemal, S.**, Hossain, M. B., Roy, P. and Ali, M. M. (2020). Fish Drying and Socio-Economic Condition of Dried Fish Producers in the Coastal Region of Bangladesh. Middle-East Journal of Scientific Research, 28(3), 182-192.
- Zannat, L. K., Jasmine, S., Hossen, S., Hossain, M.Y., Ghosh, A., Ferdous, A., Saha, N. and **Hemal, S.** (2020). Length-Weight, Length-Length Relationship and Condition Factor of Schilbid Catfish *Neotropius atherinoides* (Bloch, 1794) from Padma River Rajshahi. World Applied Science Journal, 38(3), 278-286.
- Ghosh, A., Rahman, M.A., Paul, P., Ferdous, A., **Hemal, S.** and Ali, M.A. (2020). Comparative efficacy of PG and Ovaprim in Induced Breeding of Kalibaus (*Labeo calbasu*) for Conservation and Aquaculture. World Applied Science Journal, 38(3), 309-316.

### Articles/abstracts published in Conference Proceedings

- Shahabuddin, A.M., **Hemal, S.**, Ghosh, A., Ferdous, A. and Hannan, M.A. (2019). Biofloc technology: A microbial based low-cost aquaculture system Abstract book of Fisheries Society of Bangladesh Biennial Conference. December 27-28, Faculty of Fisheries, Bangladesh Agricultural University, Mymensingh, Bangladesh. (AQ-10, 53-54)

### Professional Membership

1. Member, Sher-e-Bangla Agricultural University Teachers Association
2. Life Member, Bangladesh Fisheries Research Forum (BFRF)

### Organizational skills

1. Ex general secretary, Fisheries Student Association-2015, Sylhet Agricultural University, Sylhet-3100.
2. Ex Law Concerning Secretary of "PRADHIKAR- Animal rights establishing local volunteer organization., Sylhet Agricultural University, Sylhet-3100.