



Professor (Agricultural Engineering)

School of Agriculture and Rural Development (SARD)
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Area of Specialization and Research Interest

Hydraulics and River Engineering, Irrigation and Water Management, Flood Disaster and Risk Management, Agro-processing and Postharvest Management, Open and Distance Learning

Educational Qualification

- **Doctor of Engineering in Civil Engineering** (3 Years), Department of Civil Engineering, Graduate School of Engineering, Nagoya University, Japan under MEXT Fellowship Program (October 2009 to September 2012), 2012. **(Awarded)**
- **Master of Science in Irrigation and Water Management** (1 and half years), Bangladesh Agricultural University, Mymensingh, 2005. **(Top Position)**
- **Bachelor of Science in Agricultural Engineering** (4 Years), Bangladesh Agricultural University, Mymensingh, 2001 (exam. held in 2003). **(First class First)**
- Higher Secondary School Certificate (**HSC**), Rajshahi Board, 1996. **(First Division)**
- Secondary School Certificate (**SSC**), Rajshahi Board, 1994, **(First Division with Star)**

Professional Experiences

- May 2018 ~ to date : **Professor**, Agricultural Engineering, SARD, BOU, Bangladesh
- May 2013 ~ May 2018: **Associate Professor**, Agricultural Engineering, SARD, BOU, Bangladesh
- Sep. 2008 ~ May 2013: **Assistant Professor**, Agricultural Engineering, SARD, BOU, Bangladesh
- Nov. 2005 ~ Sep. 2008: **Lecturer**, Agricultural Engineering, SARD, BOU, Bangladesh

Responsibilities : Developing course materials (Lecture, Books, Audio-TV programs) and conducting research on the field of Agricultural Engineering of different formal academic programs offered by SARD.

List of Publications

Total Publications: 26 (Twenty Six) [International: 17 (Seventeen) & National: 9 (Nine)] as of December 2017

1. Pervin S., Miraruddin M., **Islam MS.** (2017) Packaging Effect on the Quality and Storage Stability of Processed Ginger Paste, *Journal of Scientific and Engineering Research*, **4** (12):1-9, **India.**
2. Pervin S., Miraruddin M., **Islam MS.**, Rahman MM. and Khan, MHH. (2017) Blanching effect on the quality and shelf life of pea, *Journal of Postharvest Technology*, **5** (2):47-54, **India.**
3. **Islam, MS** and Tsujimoto, T. (2015) Levee breaching process of a river and disaster on floodplain, *American Journal of Civil Engineering and Architecture*, **3** (2): 39-44, **USA.**
4. **Islam, MS**, Pervin, S. Tsujimoto, T. and Tashiro, T. (2015) Laboratory investigation on levee breach and risk on floodplain of alluvial fan river, *Journal of Multidisciplinary Engineering Science and Technology*, **2** (10): 2886-2894, **Germany.**
5. **Islam, MS** and Tsujimoto, T. (2015) Numerical simulation on breach evolution process of a river levee by

overtopping, *Journal of Emerging Trends in Engineering and Applied Sciences*, **6** (1): 12-18, **UK**.

6. **Islam, MS** and Tsujimoto, T. (2015) Experimental and numerical approaches to overtopping levee breach effects in a river and floodplain, *American Journal of Civil Engineering*, **3** (2): 31-42, **USA**.
7. **Islam, MS**, S. Pervin, MA Khair, LR Khan (2015) Performance and operation suitability of developed hand and pedal pump for low-lift Irrigation, *Journal of Multidisciplinary Engineering Science and Technology*, **2** (2): 233-239, **Germany**.
8. Pervin S., Miaruddin M., **Islam MS.**, Rahman MM. and Khan, MHH. (2015) Effect of Blanching on the Quality of Frozen Product of Carrot, *Research & Reviews: Journal of Food Science & Technology*, **4** (3):1-9, **India**.
9. Pervin S., Miaruddin M., **Islam MS.**, Chowdhury MGF, Rahman MM. and Khan, MHH. (2015) Standardization of bottling process for sweet corn, *Annals. Food Science and Technology*, **16** (2):236-242, **Romania**.
10. S. Pervin, **M.S. Islam**, A. R. Akanda and M.M. Rahman (2014) Fertigation influence on the yield and quality of strawberry, *International Journal of Sustainable Crop Production*, **9** (1): 16-22, **Bangladesh**.
11. S. Pervin, **M.S. Islam**, A. R. Akanda, M.S. Rahman and A. J. Mila (2014) Effect of irrigation levels on the yield of groundnut. *International Journal of Experimental Agriculture*, **4** (1): 17-21, **Bangladesh**.

Published in International Conference and Symposium as Full Length Peer Reviewed Journal

12. **Islam, MS** and Tsujimoto, T. (2013) Levee breach with phenomena on river, levee and floodplain – effect of bed materials, *Proceedings of 4th International Conference on Water and Flood Management (ICWFM 2013)*, March 9-11, BUET, Dhaka, **Bangladesh**.
13. **Islam, MS** and Tsujimoto, T. (2013) Levee breach and successive disaster depending on landscape management on floodplain, *Advances in River Sedimentation Research*, pp. 2021-2026, Taylor & Francis, **England**.
14. Tsujimoto, T and **Islam, MS**. (2013) Danger of levee breach in river with higher relative river bed suggested by small-scale laboratory experiments and numerical analysis, *Advances in River Sedimentation Research*, pp. 2027-2033, Taylor & Francis, **England**.
15. **Islam, MS**, Tashiro, T. and Tsujimoto, T. (2012) Laboratory Experiments on Levee Breach and Inundation in Low-land Floodplain with Particular Reference to Relative Height of River Bed to Floodplain, *International Review of Civil Engineering*, **3** (3): 251-258, **Italy**.
16. **Islam, MS** and Tsujimoto, T. (2012) Comparisons of levee breach and successive disasters in floodplain between Bangladesh and Japan, *Procedia Engineering*, **28**: 860-865, Elsevier publication, **China**.
17. **Islam, MS** and Tsujimoto, T. (2012) Numerical approach to levee breach as a key of Flood disasters in low land, *International Journal of Civil Engineering*, **4** (1): 23-39, **India**.
18. Tsujimoto, T, Tashiro, T, **Islam, MS** and Yoshiike, T. (2012) Effect of river bed height from floodplain level on levee breaching process through small-scale experiments - Risk of disaster by levee breach in “Tenjo-Gawa” segment, *Advances in River Engineering*, Japan Society of Civil Engineering (JSCE), **18**:381-386, **Japan**.
19. **Islam, MS** and Tsujimoto, T. (2011) Characteristics of flood disasters in low floodplain along a big river due to overflow levee breach. *International Journal of GEOMAT*, **1** (1): 52-63, **Japan**.
20. Pervin, S, **Islam, MS**. and Islam, MN. (2009) Kinetics of air drying of common carp (*Cyprinus Carpio*) and their composition analysis, *Journal of Agricultural Engineering*, **36/AE**: 101-108, **Bangladesh**.
21. Pervin, S, **Islam, MS** and Islam, MN. (2008) Study of rehydration characteristics of Lablab bean seeds, *Journal of Agriculture and Rural Development*, **6** (1&2) 157-163, **Bangladesh**.

Published in International Conference as Full Length Peer Reviewed Journal

22. **Islam, MS** and Tsujimoto, T. (2011) Numerical study on characteristics of levee breach flood disasters in alluvial floodplain, *Proceedings of International Conference on Geotechnique, construction materials and environment*, **1**: 547-552, 21-23, November, Tsu city, Mie, **Japan**.
23. Pervin, S., **Islam, MS** and Islam, M. N. (2007): Kinetics of drying of Lablab bean seeds and their composition

analysis, *International Journal of BioResearch*, **3** (3) 56-63, **Bangladesh**.

24. **Islam, MS.**, Hossain, M. Z. and Khair, A. (2007): Design and development of pedal pump for low-lift irrigation, *Journal of Agriculture and Rural Development*, **5** (1&2): 116-126, **Bangladesh**.
25. **Islam, MS** (2006) Effect of abstraction on permeability and hydraulic gradient in a simulated unconfined aquifer using sand tank model, *Journal of Agriculture and Rural Development*, **4** (1&2) 143-148, **Bangladesh**.
26. Islam, M.T., **Islam, MS** and Hoque, M.N. (2006): Properties of some selected soil under Mymensingh district in Bangladesh, *Journal of Agriculture and Rural Development*, **4** (1&2) 149-153, **Bangladesh**.

Study Material Developed

Edited Course Book of BAgEd Program

1. Farm Machineries (BAE 2303), 3rd Edition, June 2009
2. Irrigation System and Management (BAE 2303), 2nd Edition, June 2009
3. Fundamentals of Computer and Its Uses (BAE 2303), 2nd Edition, June 2009

List of Video and Audio Programs

TV/Video Programs

1. Identification of good and bed quality bricks and sand
2. Identification of different parts of power tiller and its starting process
3. Traditional and modern methods of irrigation
4. Engine classification and its history of development
5. Working principle of engine
6. Identification and uses of common tools
7. Name and identification of diesel and petrol engine main parts
8. Cooling system of engine
9. Lubrication system and fuel supply of engine
10. Common maintenance, troubles and solution of engine
11. Land tillage implements-part 1
12. Land tillage implements-part 2
13. Identification and operation of seed drill and uses of granular fertilizer
14. Irrigation devices/technologies–part 1
15. Irrigation devices/technologies–part 2
16. Identification and operation of harvester and thresher
17. Crop water management
18. Identification of main parts of tractor and its operation
19. Drainage system
20. Problem of salutation and its solution

Radio/Audio Programs

1. Development history, classification and working principle of engine
2. Cooling system of engine and electric motors classification and uses
3. Lubrication system and fuel supply of engine
4. Irrigation expansion history

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5. Importance of irrigation & necessity and agriculture and irrigation suitability of soil
 6. Sources of irrigation water and constrain of water distribution
 7. Definition, history and classification of computer
 8. Computer and its uses in network and information transfer

Academic and/or Administrative Responsibilities/Duties

- **Member of Academic Council**, Bangladesh Open University from 30/06/2014 to 22/10/2017 & 18/05/2018 to date
- **Member of School Committee**, School of Agriculture and Rural Development, Bangladesh Open University, Gazipur from 09/10/2006 to 30/09/2012 and 30/01/2018 to date
- **Member of Academic Team of e-learning Center** (School Representative), BOU from 08/03/2017 to date
- **Convener of Agro Processing Sub-Committee** for Course Development of Master in Sustainable Agriculture and Rural Livelihood (MSARL) Program, SARD, BOU from 07/05/2017 to date
- **Coordinator of Master of Science (MS) in Irrigation and Water Management** for MS in Agricultural Sciences, SARD, BOU from 20/04/2017 to date
- **Member of Master in Sustainable Agriculture and Rural Livelihood (MSARL) Curriculum Committee**, SARD, BOU from 17/01/2017 to date
- **Member of Agriculture and Rural Development Curriculum Committee**, SARD, BOU from 09/10/2006 to 30/09/2009 (1st) 03/04/2013 to 10/11/2015 (2nd) & 11/11/2015 to date (3rd)
- **Member of Language, Education and Others Curriculum Committee**, SARD, BOU from 11/11/2015 to date
- **Member of Admission Committee of MS in Agricultural Sciences**, SARD, BOU from 17/05/2016 to date
- **Member of Field Lab Establishment Committee**, SARD, BOU from 28/01/2016 to date
- **Convener of Agricultural Engineering Group Sub-Committee for BAgEd Course Books Update**, SARD, BOU from 13/07/2014 to date
- **Convener of Computer Group Sub-Committee for BAgEd Course Books Update**, SARD, BOU from 13/07/2014 to date
- **Convener of Syllabus and Course Layout Preparation committee**, Master of Science in Irrigation and Water Management, SARD, BOU from 28/05/2014 to 08/09/2015
MS in Irrigation and Water Management syllabus and course layout already developed and approved by Academic council & BOG, at present SARD taking initiative to enrolled student in the said program.
- **Coordinator of Media**, SARD, BOU (Co-ordinate TV and Radio program preparation act as a member of preview committee, prepare TV and Radio telecast schedule etc.) from 20/03/2013 to 19/04/2015
- **Coordinator of Bachelor of Agricultural Education (BAgEd) Program**, SARD, BOU from 04/05/2009 to 30/09/2009
- **Member Secretary of Position Paper Preparation Committee** for the Master in Sustainable Agriculture and Rural Livelihood Program, SARD, BOU from 03/03/2014 to 28/04/2014
- **Member of Regulation Preparation Committee** for the Master in Sustainable Agriculture and Rural Livelihood Program, SARD, BOU from 17/11/2014 to 15/12/2014
- **Member of B.Sc. Ag. (Hons) Draft Syllabus & Curriculum Preparation Committee**, SARD, BOU from 29/08/2008 to 30/09/2009

Editor of Journal

- **Associate Editor, Institutional Engineering and Technology**, Green Global Foundation Journals (<http://ggfjournals.com/content/editorialBoard/iet>)

Training/Short Course/Workshop

- **Workshop on e-learning: Use of Moodle** organized by International University of Business Agriculture and Technology (IUBET) on 25 February 2018.
- **National Conference on Food Security in Bangladesh** organized by Interdisciplinary Centre for Food Security (ICF) Bangladesh Agricultural University from 07-08 October, 2017.

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- **OER Capacity Building Programme for BOU Academics** jointly organized by Bangladesh Open University and CEMCA from 03-05 April, 2017.
 - **ICT and e-learning System** jointly organized by Bangladesh Open University and KOICA from 15-28 May, 2013.
 - **Research Methodology for Social Science Researchers** sponsored by Bangladesh Academy for Rural Development (BARD) and participant organization, organized by BARD, Comilla from 6-24 April, 2008.
 - **Fourth Gender and Development Course** organized Bangladesh Public Administration Training Centre (BPATC), Dhaka from 16-20 March, 2008.
 - **Production of Quality Mixed Media Courseware for Open and Distance Learning (ODL)** under the auspices of the Bangladesh Open University, UNESCO and CEMCA from 2-6 March, 2008.
 - **Academic and Research Writing/Editing** organized by Bangladesh Open University from 19-22 November, 2007.
 - **Tutor Training Workshop on Diploma in Youth in Development Work** organized jointly by CYP Asia Center and Bangladesh Open University from 27-29 March, 2007.
 - **Capacity Building for Open and Distance Learning (ODL) Materials** organized by Bangladesh Open University from 12-19 March, 2006.

Recognition and Merit Awards

- **Professor S. M. Nazmul Haque Smrithy Gold Medal** (2014) from Bangladesh Agricultural University (BAU), Mymensingh
- Awarded **Monbukagakusho Scholarship** from the Japanese Government throughout the doctoral course (Oct. 2009 to Sep. 2012) under Civil Engineering Special Program
- **University Prize** (2011) for securing first position in B. Sc. Ag. Engg. from Bangladesh Agricultural University, Mymensingh
- **Md. Nurul Hossain Gold Medal** (2001) in recognition of meritorious performance in obtaining graduation degree among all faculties in the year of 2001 in BAU.
- Cash money an “**Ramapathi Nath Memorial Award**” (2000) in recognition of securing the highest cumulative marks in part 1 to final examinations in the faculty of Agricultural Engineering and Technology in the year of 2000.
- **American Association of Bangladeshi Engineers and Architect (AABEA) Scholarship** (2001)

Member of professional and learned bodies

- Member, Engineering Institution of Bangladesh (IEB), Bangladesh.
- Member, Bangladesh Society of Agricultural Engineering (BSAE), Bangladesh.
- Member, Japanese Society of Civil Engineering (JSCE), Japan.

(Professor Dr. Md. Serazul Islam)