

Curriculum Vitae

Shammi Haque

Phone: +8801940817946

shammi_haque@iwfm.buet.ac.bd; haque018821@gmail.com

Website: <http://iwfm.buet.ac.bd/faculty/shammi-haque>

Education	M.Sc. in Water Resources Engineering Bangladesh University of Engineering and Technology, Dhaka CGPA: 4.0 out of 4.0	April 2018
	B.Sc. in Water Resources Engineering Bangladesh University of Engineering and Technology, Dhaka CGPA: 3.67 out of 4.0 (position:4 out of 32)	July 2014
	H.S.C. Viqarunnisa Noon College, Dhaka GPA: 5.0 out of 5.0	2008
	S.S.C. Viqarunnisa Noon School, Dhaka GPA: 5.0 out of 5.0	2006

Experience	➤ Assistant Professor, Institute of Water and Flood Management (IWF), Bangladesh University of Engineering and Technology	(Aug 2018 – Present)
------------	--	----------------------

Key Responsibilities:

- Instructor of “**Watershed Hydrology**” and “**Surveys in Water Resources Projects**” courses (Semester: October 2018) in post graduate diploma teaching
- Co-investigator and Member Secretary, "Flash Flood Early Warning System (FFEWS) for the Haor Regions of Bangladesh", collaborative project (2015-present), funded by LGED under HILIP project of IFAD.
- Researcher in “Disaster Prevention / Mitigation against Floods and Storm Surges in Bangladesh”, funded by JST-JICA (SATREPS) from 2015-present.
- Member Secretary of Co-ordination & Development (C&D) Committee of Institute of Water and Flood Management (IWF), Bangladesh University of Engineering and Technology (BUET) from June 2018- present

Past responsibilities:

- Assistant Organizing Secretary of 6th International Conference on Water and Flood Management (ICWFM 2017)
- Resource person in 4th Short Course on Remote Sensing and GIS in Water Management Programme (22-24 May 2015)

➤ Lecturer, Institute of Water and Flood Management (IWF), Bangladesh University of Engineering and Technology (Feb 2015 – July 2018)

➤ Lecturer, University of Information Technology and Sciences (UITS) (Sep 2014 – Feb 2015)

Courses taken in undergraduate teaching

- Geology and Geomorphology
 - Open Channel Flow Sessional
 - Introduction to GIS
 - Mechanics of Solids I
-

Advisory Services	<ul style="list-style-type: none"> ➤ Worked as Junior Engineer in “Feasibility Study with ESIA for Resuscitation of Ichamoti River in Pabna District”, Client: Bangladesh Water Development Board (BWDB), Dhaka, 2018. ➤ Worked as Junior Engineer/Model Preparator in “Feasibility Study for Flood Control, Drainage and Irrigation System at Gowainghat in Sylhet District”, Client: Bangladesh Water Development Board (BWDB), Dhaka, 2018. ➤ Worked as Junior Engineer/Hydrologist in “Hydrological and Modeling Support for Side Slope Stabilization Work in Selected River Erosion Prone Clusters under Kurigram and Gaibandha Districts in Response to NW Flood in 2016”; Client: ESDO, Duration: September 2016 – February 2017 ➤ Worked as Junior Engineer/Model Preparator in Hydrological and Morphological & EIA study of proposed 3 Bridges over different rivers in Rangamati, Chittagong Hill Tracts; Client: LGED, Duration: 2016-2017. ➤ Worked as Data Analyst/GIS Mapping Personnel in “Selection of Area of Intervention in the Coastal Districts of Bangladesh under Climate Resilient Rural Infrastructure Project (CRRIP)”; Client: LGED, Duration: May 2015 - December 2015.
Fields of Interest	Hydrological modeling, River Engineering and sediment transport, GIS and remote sensing, Watershed management, Integrated water resources management
Software Skills	HEC-GeoHMS, HEC-HMS, HEC-GeoRAS, HEC- RAS, ArcGIS, AutoCAD, SWAT, ILWIS, Programming Language: C++, MATLAB
M.Sc. Thesis	<p>“Effect of Climate and Land use changes on Sediment Load for Brahmaputra River Basin using HEC-HMS”</p> <p>Supervisor: Dr. Md. Mostafa Ali, Professor, Department of Water Resources Engineering Bangladesh University of Engineering and Technology (BUET), Dhaka</p>
Courses	<ul style="list-style-type: none"> <li style="width: 50%;">• Statistical Methods in Hydrology <li style="width: 50%;">• Coastal Zone Management <li style="width: 50%;">• Hydrology <li style="width: 50%;">• Coastal Engineering <li style="width: 50%;">• Mathematical Modeling <li style="width: 50%;">• Integrated Water Resources Management <li style="width: 50%;">• River Engineering
Undergraduate Thesis	<p>“Climate Change Scenario of Upper Meghna River Basin using a Hydrological Model in HEC-HMS”</p> <p>Supervisor: Dr. Md. Mostafa Ali, Assistant Professor, Department of Water Resources Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka</p>
Major Undergraduate Courses	<ul style="list-style-type: none"> <li style="width: 50%;">• Climatology <li style="width: 50%;">• Hydraulic Structures <li style="width: 50%;">• Coastal Engineering <li style="width: 50%;">• Hydrology <li style="width: 50%;">• Computer Applications in Water Resources Engineering GIS and Remote Sensing <li style="width: 50%;">• Irrigation and Drainage Engineering <li style="width: 50%;">• Groundwater Engineering <li style="width: 50%;">• Numerical Analysis <li style="width: 50%;">• River Engineering and Flood Mitigation <li style="width: 50%;">• Open Channel Hydraulics <li style="width: 50%;">• Water Resources Planning and Construction Management <li style="width: 50%;">• Environmental Engineering <li style="width: 50%;">• Fluid Mechanics <li style="width: 50%;">• Surveying <li style="width: 50%;">• Geology and Geomorphology

Journal	Ali, M.M., Narzis, A. and Haque, S. , 2016. " <i>Impacts of Climate Changes on Peak Flow of Upper Meghna River Basin.</i> " Journal of Presidency University, Part B (Science and Engineering), 3 (2), pp. 54 – 63. ISSN: 2224-7610.
Conference Proceedings	<ol style="list-style-type: none"> 1. Haque, S., Islam, A. K. M. S., Islam, G. M. T. and Salehin, M., 2017. "<i>Event Based Flash Flood Simulation at Sunamganj using HEC-HMS.</i>" Proceedings of 6th International Conference on Water and Flood Management, pp. 29-37, ISBN: 978-984-34-2207-1. 2. Hashimoto, M., Kawaike, K., Hasegawa, Y., Deguchi, T., Haque, S., Paul, A., Salehin, M. and Nakagawa, H., 2017. "<i>Estimation of Sediment Transport Rate using Simulated Runoff Discharge from Ungauged Basin: Case Study in Gowain River, Bangladesh.</i>". Proceedings of 6th International Conference on Water and Flood Management, pp. 29-37, ISBN: 978-984-34-2207-1. 3. Haque, S., Paul, A., Hossain, M.A., Salehin, M., Rahman, M.M., Hashimoto, M. and Kawaike, K., 2017. "<i>Sensitivity analysis of SMA based continuous hydrologic simulation for Sari-Gowain river basin</i>". 4th International Conference on Engineering, Research, Innovation and Education, January 13–15, 2017, Sylhet, Bangladesh, pp. 751-756. 4. Islam, M. R., Roy, B., Haque, S., Rahman, M. M., Dustegir, M., Nakagawa, H. and Hasegawa, Y., 2017. "<i>Preliminary Measurement Along an Eroding Bend in a Sand Bed Braided River Using Acoustic Doppler Current Profiler.</i>" 4th International Conference on Engineering, Research, Innovation and Education, January 13–15, 2017, Sylhet, Bangladesh, pp. 60-66. 5. Islam, M.R., Haque, S., Hiraishi, T., Baba, Y., Mizutani, H., Hattha, W. and Okura, S., 2016. "<i>Experimental Study on Effect of Wave Set-Up due to Storm Surge on a Structure.</i>" 20th Congress of Asia Pacific Division of the International Association for Hydro Environmental Engineering and Research (IAHR APD 2016), August 28 – 31, 2016, Colombo, Sri Lanka. 6. Narzis, A., Haque, S. and Ali, M.M., 2015. "<i>Climate change scenario: Impact on Upper Meghna river basin and flow of Sylhet region using a hydrological model in HECHMS.</i>" Proceedings of International Conference on Climate Change in relation to Water and Environment, April 09-11, 2015, DUET, Gazipur, Bangladesh, pp. 15-22. 7. Ali, M.M., Narzis, A. and Haque, S., 2014. "<i>Evaluation of climate change scenarios of upper Meghna river basin using hydrologic modeling system (HEC-HMS).</i>" Proceedings of 2nd International Conference on Advances in Civil Engineering December 26 –28, 2014 CUET, Chittagong, Bangladesh, pp. 1025-1030.
Presentations	<ol style="list-style-type: none"> 1. Haque, S., Ali, M.M. and Islam, A.K.M.S., 2018. "<i>Assessment on sediment load for Brahmaputra River Basin: a present to future scenario.</i>" 2018 International Workshop for Young Scientists of the HKH Session of the Second International Science Forum of National Science Organizations on the Belt and Road Initiative, November 5-6, 2018, University of Chinese Academy of Sciences (UCAS), Beijing, China. 2. Roy, B., Shampa, Dustegir, M., Islam, M.R., Haque, S., Rahman, M.M. and Haque, A., 2017. "<i>Simulation of Flow Field along the Jamuna River in Bangladesh.</i>" 3rd International Conference on the Status and Future of the World's Largest Rivers, April 18-21, 2017, New Delhi, India. 3. Haque, S., Billah, M., Narzis, A., Islam, A.K.M.S., Islam, G.M.T. and Salehin, M., "<i>Future Changes of Flash Flood in the North East Region of Bangladesh using HEC-HMS Modeling.</i>" The 2nd Annual Gobeshona Conference 8-11 January 2016.

Trainings and Workshops	<ul style="list-style-type: none"> ➤ HUC Academy on Disaster Risk and Water Management in ICIMIOD, Kathmandu, Nepal, 3-12 July 2017. ➤ Training course on River and Delta Morphology: Evolution, Dynamics and Prediction organized by CEGIS on 27-29 December 2016. ➤ Workshop on Teaching-Learning and Curriculum Development arranged by Institutional Quality Assurance Cell (IQAC), BUET on 18 August 2016. ➤ Working sessions on supporting the preparation of the land cover map development and the integration of land cover and forest monitoring arranged by Food and Agriculture Organization of the United Nations and Bangladesh Forest Department, Bangladesh on 6-8th June 2016. ➤ Training on Radar data integration for Land Cover/Land Use mapping in Bangladesh arranged by Food and Agriculture Organization (FAO) with support from SilvaCarbon, USAID and UNREDD held at Bangladesh Forest Department, Bangladesh on 4 -8 April 2016. ➤ Training of Trainers (ToT) Course on Concept and Practice of Integrated Water Resources Management arranged by CEGIS on 20-24 March, 2016. ➤ Training on national land cover monitoring using optical satellite data at Dhaka, Bangladesh arranged by FAO and SilvaCarbon on 7 - 11 February 2016. ➤ Training on National Land Cover Classification Systems Toward the Integration of Forest Bangladesh at Bangladesh Bureau of Statistics on November 29th – December 3th 2015. ➤ Visit to Ujigawa open laboratory, Kyoto University, Japan to perform a joint experiment on wave setup in storm surge on 02 -10 October 2015. ➤ Workshop on Watershed Modeling with SWAT organized by Department of Water Resources Engineering, BUET, Dhaka held on 19 December, 2013. ➤ Completed an Internship Program held from 30 October to 07 November 2013, in the Center for Environmental and Geographic Information Services (CEGIS) under Climate Change Study Division, as a student of Water Resources Engineering Department, BUET, Dhaka.
-------------------------	--
