

## **Md. Aminul Islam**

Assistant Professor, BUET-Japan Institute of Disaster Prevention & Urban Safety,  
Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh.

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Google Scholar: [https://scholar.google.com/citations?hl=en&user=F\\_9Y5pwAAAAJ](https://scholar.google.com/citations?hl=en&user=F_9Y5pwAAAAJ)

Research gate: [https://www.researchgate.net/profile/Aminul\\_Islam40?](https://www.researchgate.net/profile/Aminul_Islam40?)

## **FIELDS of INTEREST**

Structural Engineering, Earthquake Engineering, Structural Dynamics, Structural Health Monitoring, Nondestructive Testing, Vulnerability Assessment of Structure, Steel Structure, Laboratory Testing using Shake Table and Actuators, Repair and Retrofitting of existing Structures.

## **EDUCATION**

M.Sc. in Civil Engineering (Structural), Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh December 2018  
Thesis: Dynamic Behaviour of Unreinforced Masonry Building

B.Sc. in Civil Engineering, Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh July 2014  
Thesis: Effect of Fine Content on Shear Strength of Sand

## **RESEARCH EXPERIENCE**

Involvement in the following research projects:

- Pseudo-dynamic Behavior of Unreinforced Masonry Wall
- Shake table test of structural frame using Buckling Restrained Brace (BRB)
- Investigation of Dynamic Behavior of Unreinforced Masonry Building by Shaking Table
- Effect of Fine Content on Shear Strength Of Sand

## **PUBLICATIONS**

### **Journal**

**Islam, M.A.**, Ahsan R., Aziz, I., "Experimental Investigation of Seismic Performance of Unreinforced Masonry (URM) Walls." Journal of Earthquake Engineering, Manuscript No.: UEQE-2019-3871, 19 August 2019. **(Submitted)**

Barua, U., Akther, M.S., Islam, I., **Islam, M.A.**, Akter, T., Ansary, M.A., Ahsan R. "Earthquake Contingency Planning at Local Level through Participatory Approach: An Experience from Ward No. 14, Mymensingh Municipality, Bangladesh." International Journal of Disaster Risk Reduction, Submission no: IJDRR\_2019\_1024. 6 August 2019. **(Submitted)**

Barua, U., Mannan, S., Islam, I., Akther, M.S., **Islam, M.A.**, Akter, T., Ahsan R. Ansary, M.A., "People's awareness, knowledge and perception influencing earthquake vulnerability of a community: A study on Ward No. 14, Mymensingh municipality, Bangladesh." Submission id: NHAZ-D-19-00857, 6 August 2019. **(Submitted)**

Uddin, M. A., **Islam, M.A.**, Hossain, M.D., "A Comparison Between Treatment Efficiency of Conventional Activated Sludge Process Followed by Chemical Treatment and Conventional Activated Sludge Process Followed by Membrane Bioreactor for the Wastewater of a Textile Industry." Desalination and Water Treatment, Manuscript ID: TDWT-2019-1160. **(Submitted)**

Ahsan, R., Aziz, I., Aziz S., **Islam, M.A.** and Sarker, M. S. K. “Reliability of Concrete Core Testing and Implications in Building Safety Assessment in Bangladesh”, Journal of Civil Structural Health Monitoring, Manuscript Number: CSHM-D-19-00047 (**Submitted**)

### **Conference Proceeding**

**Islam, M.A.**, Ahsan, R., “Performance of Unreinforced Masonry Walls in Shaking Table Test” International Conference on Disaster Risk Management (ICDRM 2019), Paper ID: APM117, Page No.: 68-73, ISBN: 978-984-34-5794-3, 12-14 January 2019, Dhaka, Bangladesh.

**Islam, M.A.**, Barua, U., Akter, T., Ahsan, R., Akther, M.S., Islam, I., Ansary M.A., “Structural Vulnerability and Social Readiness in Mymensingh, Bangladesh” International Conference on Disaster Risk Management (ICDRM 2019), Paper ID: APM118, Page No.: 74-79, ISBN: 978-984-34-5794-3, 12-14 January 2019, Dhaka, Bangladesh.

Akter, T., Barua, U., **Islam, M.A.**, Islam, I., Akther, M.S., Ansary, M.A., Ahsan R. “Understanding Social Vulnerability of a Community for Earthquake: A Study on Ward no. 14, Mymensingh Municipality, Bangladesh” International Conference on Disaster Risk Management (ICDRM 2019), Paper ID: APM511, Page No.: 275-281, ISBN: 978-984-34-5794-3, 12-14 January 2019, Dhaka, Bangladesh.

Barua, U., Akter, T., **Islam, M.A.**, Akther, M.S., Islam, I., Ahsan, R., Ansary, M.A., “Community participation in Earthquake Contingency Planning: An experience from Ward No. 14, Mymensingh Municipality, Bangladesh ” International Conference on Disaster Risk Management (ICDRM 2019), Paper ID: EMR110, Page No.: 401-408, ISBN: 978-984-34-5794-3, 12-14 January 2019, Dhaka, Bangladesh.

Billah, M., Tarannum, T., **Islam, M.A.**, and Shahin, M., “Cyclone Shelters Need Development for Ensuring Sustainable Uses: A Case Study In Patuakhali And Borguna District” International Conference on Disaster Risk Management (ICDRM 2019), Paper ID: HVR233, Page No.: 568-577, ISBN: 978-984-34-5794-3, 12-14 January 2019, Dhaka, Bangladesh.

**Islam, M.A.**, Isaba, T.T., Aziz, I., Aziz, S., Ahsan, R. “Structural Vulnerability of Buildings to Earthquake of Ward no. 14, Mymensingh Municipality, Bangladesh” International Conference on Planning, Architecture and Civil Engineering, RUET, Paper ID: C\_48, 6-9 February 2019, Rajshahi, Bangladesh.

**Islam M.A.**, Ansary M.A., Ahsan R., “Performance of Reinforced Concrete Frame Retrofitted With Buckling Restrained Brace (BRB)”. International Conference on Disaster Risk Mitigation (ICDRM 2017), Paper ID-CDS123, September 23 - 24, 2017, Dhaka, Bangladesh.

**Islam M.A.**, Badhon F.F., Abedin M.Z., “Influence of Effective Size on Shear Strength of Sand”. International Conference on Planning, Architecture and Civil Engineering (ICPACE 2017), 09-11 February 2017, RUET, Rajshahi, Bangladesh.

**Islam M.A.**, Badhon F.F., Anik M.K.A., Abedin M.Z., “Effect of Fine Content on Shear Strength of Sand”. 3<sup>rd</sup> International Conference on Advances in Civil Engineering 2016 (ICACE-2016), Page No.: 191-196, 21-23 December 2016, CUET, Chittagong, Bangladesh.

Badhon, F.F., **Islam, M.A.**, “Effect of Gradation on Shear Strength of Sand” International Conference on Engineering Research, Innovation and Education (ICERIE 2017), SUST, Paper ID: ICERIE 2017\_039, Page No.: 757-761, 13-15 January 2017, Sylhet, Bangladesh.

## PROJECT WORK

**Development of Post-Graduate Research and Degree Programs in Disaster Risk Reduction at New Institute on Disaster Prevention and Urban Safety** August, 2016 – November 2017

Higher Education Quality Enhancement Project (HEQEP), Academic Innovation Fund, University Grants Commission (UGC)

Position: Member, Project Management Team

**Assessment of Seismic Exposure, Building & Socio-economic Exposure Assessment and Contingency Planning for Ward 14 of Mymensingh Municipality** April, 2017 – December 2017

Funded by, United Nations Development Programme (UNDP)

Position: Team Leader, Survey Team; Member, Project Management Team

**Assessment of Structural Vulnerability to Earthquake of Hospital and School Buildings** August 2018 – November 2018

Funded by, Population Services and Training Center (PSTC) and Community Participation and Development (CPD)

Position: Member, Project Management and Technical Team

## ACADEMIC EMPLOYMENT

**Assistant Professor**, BUET-Japan Institute of Disaster Prevention & Urban Safety, BUET, Bangladesh July 2019- present

Assigned Work: Research, Teaching

**Lecturer**, BUET-Japan Institute of Disaster Prevention & Urban Safety, BUET, Bangladesh July 2015- June 2019

Assigned Work: Research, Teaching

**Part-time faculty (Lecturer)**, Department of Civil Engineering, Sonargaon University, Bangladesh August 2017- December 2018

Assigned Work: Prepare Lecture slide, conducting lecture

**Lecturer**, Department of Civil Engineering, Ahsanullah University of Science and Technology, Dhaka June, 2015 – July, 2015

Assigned Work: Prepare Lecture slide, conducting lecture

## TEACHING EXPERIENCES

**Assistant Professor**, BUET-Japan Institute of Disaster Prevention & Urban Safety, BUET, Bangladesh July 2019- present

**Lecturer**, BUET-Japan Institute of Disaster Prevention & Urban Safety, BUET, Bangladesh July 2015- June 2019

- Cone Penetration Test (Lecture, Field Test and Analysis)
- Down-hole Seismic Test (Lecture, Field Test and Analysis)
- Microtremor Test (Field Test and Analysis)
- Seismic Refraction (Lecture and Field Test)
- Ground Penetration Radar (Lecture, Field Test and Analysis)

**Part-time faculty (Lecturer)**, Department of Civil Engineering, Sonargaon University, Bangladesh August 2017- December 2018

- Concrete Structure Design Sessional I

- Concrete Lab
- Structural Mechanics and Material Lab
- Numerical Analysis

**Lecturer**, Department of Civil Engineering, Ahsanullah University of Science and Technology, Dhaka June, 2015 – July, 2015

- Geotechnical Engineering Sessional I
- Environmental Engineering Sessional I
- Civil Engineering Drawing

## PROFESSIONAL EXPERIENCE

Performed different tests/project/managerial work e.g.

- Assessment on Structural Vulnerability to Earthquake of Hospitals, Schools Buildings and Office Buildings in Dhaka City and Narayanganj City, Bangladesh. (2017-2018)
- Site supervision of retrofitting work at Department of Telecommunication (DoT)
- Report writing on **seismic exposure assessment and structural vulnerability assessment** of Mymensingh, Bangladesh. 2017
- Provide lecture on various **Non-destructive testing** methods e.g. Microtremor Test, Ground-Penetrating Radar, Seismic Refraction- as a part of assigned office work. (2017-2018)
- Performed various kinds of testing e.g. **Shake Table Test, Eccentric Mass Vibrator, Static Actuator Test, Microtremor Test, Ground-Penetrating Radar, Cone Penetration Test, PS- Logging Test.** (2015-2018)
- Organizing Committee Member of “International Conference on Disaster Risk Mitigation (ICDRM) 2017”; Organized by- BUET-JIDPUS, BUET, Bangladesh. September, 2017
- Training Course Coordinator of various training. (2015-2017)
- Organizing Committee Member of symposium on “Safety in the Garment Industry, Five Years after Rana Plaza”; Organized by- BUET-JIDPUS, BUET, Bangladesh. April, 2018
- Visit to Reconstruction Area at Dolakha, Nepal after 2015 Gorkha Earthquake, Collaborative Research on Disaster Risk Reduction jointly implemented by Beijing Normal University, China and National Society for Earthquake Technology -Nepal (NSET) with the funding support from DFID. August, 2017

## HONORS and AWARDS

- Dean’s Scholarship: in every academic session of undergraduate study for obtaining a CGPA higher than 3.75
- University Merit Scholarship: in five academic term of undergraduate study for excellent results in each term
- Dhaka Board Scholarship: For outstanding result in the Higher Secondary Certificate Examination
- American Association of Bangladeshi Engineers and Architect (AABEA), Inc. Scholarship

## COMPUTER SKILL

Typesetting Languages: LaTeX  
 Programming Languages: C/C++  
 Graphics Software: AutoCAD

Computing Tools: MATLAB  
 Modeling Software: ETABS, GRASP, SAP 2000

## REFERENCES

**Raquib Ahsan, Ph.D.**

Director, BUET-Japan Institute of Disaster Prevention & Urban Safety  
& Professor, Department of Civil Engineering,  
Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh  
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**Md. Zoynul Abedin, Ph.D.**

Professor, Department of Civil Engineering  
Military Institute of Science and Technology (MIST), Dhaka-1216, Bangladesh  
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