

Curriculum Vitae of Prof. Dr. Md. Abul Hasan

1. Personal information

Born: December 31, 1988 (Married, Bangladeshi Citizen)
Language: Bengali and English
Home address: Vill. - Manikpur, P.O. - Rudrorampur, P.S. - Chatkhil,
Dist. - Noakhali, Bangladesh
Current address: House No: Umo 1/1, CUET residential area, Chittagong-
4349, Bangladesh
Contact: +8801609495478
Email: hasanrazu0601056@gmail.com / hasanraju@cuet.ac.bd
Website: <https://www.cuet.ac.bd/members/535>
<https://scholar.google.com/citations?user=xfjft1QAAAAJ&hl=en>



2. Education

B.Sc. in Civil Engineering: Chittagong University of Engineering & Technology, 2011
M.Sc. in Disaster Engineering: Chittagong University of Engineering & Technology, 2015
PhD in Civil Engineering: Waseda University, Tokyo, Japan, 2020
Title of PhD Thesis: “**Performance Assessment of RC Bridge Structure Retrofitted Using Stainless Steel Rebars and CFRP Sheets**” supervised by Professor Mitsuyoshi Akiyama (Chief), Prof. Iwanami, Prof. Sato and Prof. Ono (co-advisors).

3. Work Experiences

2012 Jan. - 2015 Nov.: Lecturer, Department of Disaster Engineering & Management, CUET.
2015 Nov. - 2022 June: Assistant Professor, Department of Disaster Engineering & Management.
2022 June - 2024 March: Associate Professor, Department of Disaster Engineering & Management.
2024 March – Till now: Professor, Department of Disaster Engineering & Management.
2020 Oct. – Till now: Chief Consultant, Bangladesh Engineering and Landmark Limited.
2020 Oct. – Till now: Marine Infrastructure Expert.

4. Areas of Expertise

- Reliability-based Life-Cycle Assessment of RC Structures
- Life-Cycle Cost of RC Structures
- Retrofitting of RC Structures in Harsh Environment
- Finite Element Analysis
- Application of Machine Learning in Civil Engineering
- Performance Assessment of RC Structures through Experimental and Analytical Approaches

5. Awards

- CUET, Best Research Publication Award 2022, for the Faculty of Civil Engineering.
- CUET, Research Fair 2023, Winner (3rd Place) in Poster Presentation.
- JCI (Japan Concrete Institute) best paper award, 2018.
- MEXT (Monbukagusho) scholarship for pursuing PhD in Japan (2017 Oct. - 2020 Sep.)
- DAAD scholarship for research stay in Germany (2013 Oct. - 2014 Jan.)
- JICA funded scholarship to visit Japan for eighteen days (Nov. 3 - 18, 2012)
- CUET merit scholarship (2007 - 2011)
- EXIM Bank scholarship (2007 - 2015)

6. Plenary Lectures

- **Hasan M.A.**, Akiyama M. and Kashiwagi K., 2020. Experimental study on flexural behavior of RC beam retrofitted with stainless steel rebars and CFRP sheets. Proceedings of JCI Annual Convention, 2020, Hokkaido, Japan.
- Lim S., **Hasan M.A.**, Akiyama M. and Frangopol D.M., 2020. Reliability-based approach to

determine the distances from coastline for stainless steel application in RC bridges under airborne chloride hazard. Proceedings of the Seventh International Symposium on Life-Cycle Civil Engineering, 2020, Shanghai, China.

- **Hasan M.A.**, Yan K. and Akiyama M., 2019. Comparison of life-cycle cost of concrete structures using stainless steel rebars with that using carbon steel rebars. Proceedings of Ninth Japan Conference on Structural Safety and Reliability, 2019, Japan.
- **Hasan M.A.**, Yan K., Qi S. and Akiyama M., 2018. Effect of rebar types on the life-cycle cost of RC structures in a marine environment. Proceedings of JCI Annual Convention, 2018, Kobe, Japan.
- **Hasan M.A.**, and Bhuiyan A.R., 2014. Seismic performance evaluation of seismically isolated reinforced concrete building: A case study. 2nd International Conference on Advances in Civil Engineering, 2014, Chittagong, Bangladesh.
- **Hasan M.A.**, Islam M.M., Kabir M.H., and Islam M.S., 2012. Strength behavior of mortar using slag as partial replacement of sand. 1st International Conference on Advances in Civil Engineering, 2012, Chittagong, Bangladesh.

7. Selected Papers

- **Hasan M.A.**, Akiyama M., Kojima K., and Izumi N., 2022. Shear behavior of reinforced concrete beams repaired using a hybrid scheme with stainless steel rebars and CFRP sheets, *Construction and Building Materials*, 363, 12817.
- **Hasan M.A.**, Akiyama M., Kashiwagi K., Kojima K., and Peng L., 2020. Flexural behaviour of reinforced concrete beams repaired using a hybrid scheme with stainless steel rebars and CFRP sheets, *Construction and Building Materials*, 265(2020).
- **Hasan M.A.**, Yan K., Lim S., Akiyama M., and Frangopol D.M., 2019. LCC-based identification of geographical locations suitable for using stainless steel rebars in reinforced concrete girder bridges, *Structure and Infrastructure Engineering*, 16(9), 1201-1227.
- **Hasan M.A.**, Parvin F., Islam M.B., and Hossain M.N., 2023. Investigation of mechanical behavior of mortar using slag as partial replacement of sand based on experimental and machine learning approaches, *Asian Journal of Civil Engineering*.
- **Hasan M.A.**, Islam M.B., and Hossain M.N., 2023. Reliability of artificial neural networks in predicting shear strength of reinforced concrete beams, *Asian Journal of Civil Engineering*.
- Zisan B., Biswas B.K., **Hasan M.A.**, Chanda M., and Dhar, A. 2023. Flexural performance of reinforced concrete beams retrofitted using ferrocement wire mesh, *Architecture and Engineering* 8(1), 71-81.
- Zisan B., **Hasan M.A.**, and Haque N., 2022. Performance assessment of buildings seismically isolated with scrap tire rubber pad isolators, *Asian Journal of Civil Engineering*.
- Zisan B., Haque N., and **Hasan M.A.**, 2022. Seismic vulnerability assessment of masonry building supported by STRP isolators, *Asian Journal of Civil Engineering*.
- **Hasan M.A.**, Akiyama M., and Kashiwagi K., 2020. Experimental study on flexural behavior of RC beam retrofitted with stainless steel rebars and CFRP sheets, *JCI Annual Convention*, 42(2), 1159-1164.
- **Hasan M.A.**, Yan K., Qi S., and Akiyama M., 2018. Effect of rebar types on the life-cycle cost of RC structures in a marine environment, *JCI Annual Convention*, 40(2), 1393-1398.
- **Hasan M.A.**, Lim S., Akiyama M., and Frangopol D.M., 2020. Life-cycle cost analysis for rebar type selection in RC bridge located in coastal region, *Proceedings of the 10th International Conference on Bridge Maintenance, Safety and Management*, Japan, 1063-1067.
- Lim S., **Hasan M.A.**, Akiyama M., and Frangopol D.M., 2020. Reliability-based approach to determine the distances from coastline for stainless steel application in RC bridges under airborne chloride hazard, *Proceedings of the Seventh International Symposium on Life-Cycle Civil Engineering*, China, 1103-1109.
- **Hasan M.A.**, Yan K., and Akiyama M., 2019. Comparison of life-cycle cost of concrete structures using stainless steel rebars with that using carbon steel rebars, *The Ninth Japan Conference on Structural Safety and Reliability*, Japan.
- **Hasan M.A.**, and Bhuiyan M.A.R., 2018. Seismic fragility assessment and retrofit of a government

hospital building in Chittagong, Bangladesh, *Malaysian Journal of Civil Engineering*, 30(1), 69-84.

- **Hasan M.A.**, 2016. Performance of reinforced concrete hospital building subjected to earthquake using base-isolation system, *Malaysian Journal of Civil Engineering*, 28(2), 257-269.
- Biswas S., **Hasan M.A.**, and Islam M.S., 2015. Stilt housing technology for flood disaster reduction in the rural areas of Bangladesh, *International Journal of Research in Civil Engineering, Architecture & Design*, 3(1), 1-6.
- **Hasan M.A.**, and Bhuiyan A.R., 2014. Seismic performance evaluation of seismically isolated reinforced concrete building: A case study, *2nd International Conference on Advances in Civil Engineering*, Chittagong, Bangladesh.
- **Hasan M.A.**, Islam M.M., Kabir M.H., and Islam M.S., 2012. Strength behavior of mortar using slag as partial replacement of sand, *1st International Conference on Advances in Civil Engineering*, Chittagong, Bangladesh.
- **Hasan M.A.**, and Bhuiyan A.R., 2015. Fragility assessment of an existing reinforced concrete hospital building, *National Conference on Earthquake and Environmental Disasters*, Chittagong, Bangladesh.