

# Curriculum Vitae

## **Dr. Md. Moinul Islam**

Professor

Department of Civil Engineering

Chittagong University of Engineering & Technology (CUET)

Chittagong-4349, Bangladesh.

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## **EDUCATIONAL BACKGROUND**

### **Doctor of Philosophy**

Chittagong University of Engineering & Technology, Chittagong, Bangladesh

**Result: GPA: 3.83 on Scale 4.0, obtained 85.7% equivalent marks**

Year of Passing: 2014

**Research Project:** An Experimental Study on the Durability of Reinforced Blended Cement Concrete in Marine Environment

### **Master of Science in Civil Engineering**

Chittagong University of Engineering & Technology, Chittagong, Bangladesh

**Result: GPA: 3.92 on Scale 4.0, obtained 93.3% equivalent marks**

Year of Passing: 2007

**Research Project:** An Experimental Study on the Behavior of Slag Concrete in Marine Environment

### **Bachelor of Science in Civil Engineering**

Chittagong University of Engineering & Technology, Chittagong, Bangladesh

(Erstwhile Bangladesh Institute of Technology, Chittagong, Bangladesh)

**Result: Secured 1<sup>st</sup> Position with CGPA 3.75 on Scale 4.0, obtained 79% equivalent marks**

Year of Passing: 1998

### **Higher Secondary Certificate (H.S.C.)**

Cantonment College, Jessore

**Result: First Division with Star marks, obtained 78.8 % marks**

Year of Passing: 1991

### **Secondary School Certificate (S.S.C.)**

Jessore Zilla School, Jessore

**Result: First Division with Star marks, obtained 75.5 % marks**

Year of Passing: 1989

## PROFESSIONAL AFFILIATIONS

Fellow of Institute of Engineering Bangladesh, IEB (**F-10407**).

## PROFESSIONAL EXPERIENCE

### Lecturer

#### Department of Civil Engineering

Chittagong University of Engineering and Technology, Chittagong, Bangladesh  
June 1999 to April 2003.

### Assistant Professor

#### Department of Civil Engineering

Chittagong University of Engineering and Technology, Chittagong, Bangladesh  
April 2003 to January 2012.

### Associate Professor

#### Department of Civil Engineering

Chittagong University of Engineering and Technology, Chittagong, Bangladesh  
January 2012 – September 2014.

### Professor

#### Department of Civil Engineering

Chittagong University of Engineering and Technology, Chittagong, Bangladesh  
September 2014 – To date.

## LIST OF PUBLICATIONS

### (a) Referred Journal Papers

1. Md. Saiful Islam, S. K. Kaushik and **Md. Moinul Islam**, "Physical & Mechanical Behavior of Concrete in Sea Water under Large Hydrostatic Pressure," *Journal of the Institution of Engineers, Malaysia*, Vol.26, No.2, June-2005, pp. 46-52.
2. **Md. Moinul Islam**, Md. A.R Bhuiyan and Md. M. Rashid, "Strength Behavior of Mortar Using Ground Granulated Blast Furnace Slag in Plain Water," *Journal of Civil and Earthquake Engineering, CUET*, Vol.JCEE.01, No.1, June-2007, pp. 66-74.
3. **Md. Moinul Islam**, Mohammad T. Alam, Gourab K. Basak and Mostofa Kamal, "Improvement of Chloride Ion Penetration Resistance of Concrete by Using Slag and Fly Ash," *Journal of Civil and Earthquake Engineering, CUET*, Vol.JCEE.02, No.1, July-2009, pp. 38-55.
4. **Md. Moinul Islam**, Md. Saiful Islam, Bipul C. Mondal and Amrita Das, "Strength Behavior of Mortar Using Slag with Cement in Sea Water Environment," *Journal of Civil Engineering, IEB*, Vol.37, No.2, December-2009, pp. 111-122.

5. Md. Saiful Islam, **Md. Moinul Islam** and Bipul C. Mondal, "Effect of Freeze-Thaw Action on Physical and Mechanical Behavior of Marine Concrete," *The Institution of Engineers, Malaysia*. Vol.71, No.1, March-2010, pp. 53-64.
6. Md. Saiful Islam, Bipul C. Mondal and **Md. Moinul Islam**, "Effect of Sea Salts on Structural Concrete in Tidal Environment," *Australian Journal of Structural Engineering (AJSE)*, Vol.10, No.3, July-2010, pp. 237-252.
7. **Md. Moinul Islam** and Md. Saiful Islam, "Strength Behaviour of Mortar Using Fly Ash as Partial Replacement of Cement," *Concrete Research Letter, Malaysia* Vol. 1, No.3, September-2010, pp. 98-106.
8. **Md. Moinul Islam**, Md. Saiful Islam, Bipul C. Mondal and Mohammad Rafiqul Islam, "Strength Behavior of Concrete Using Slag with Cement in Sea Water Environment," *Journal of Civil Engineering, IEB*, Vol.38, No.2, December-2010, pp. 129-140.
9. **Md. Moinul Islam**, Md. Saiful Islam, Md. Aftabur rahman and Amrita Das, "Strength Behavior of Mortar Using Slag as Partial Replacement of Cement," *Galaxy (Dhaka), Journal of Military Institute of Science and Technology*, Vol.3, No.3, February-2011, pp. 71-79.
10. **Md. Moinul Islam**, Md. Saiful Islam, Md. Al-Amin and Md. Mydul Islam, "Suitability of sea water on curing and compressive strength of structural concrete," *Journal of Civil Engineering, IEB*, Vol.40, No.1, June-2012, pp. 37-45.
11. Md. Saiful Islam, **Md. Moinul Islam** and Bipul C. Mondal, "Deterioration of Concrete in Ambient Marine Environment," *International Journal of Engineering, Transactions-B*, Vol.25, No.4, November-2012, pp. 289-301.
12. **Md. Moinul Islam** and Md. Saiful Islam, "Prospect of Bangladeshi Fly Ash in Concreting Works," *Journal of Engineering Science*, Vol.3, No, 1, December 2012, pp. 59-67.
13. **Md. Moinul Islam** and Md. Saiful Islam, "Strength and durability characteristics of concrete made with fly ash blended cement," *Australian Journal of Structural Engineering*, Vol.14, No.3, November 2013, pp. 303-319.
14. **Md. Moinul Islam** and Md. Saiful Islam, "Effect of sea water on the performance of fly ash concrete under freezing-thawing cyclic action," *Journal of Civil Engineering, IEB*, Vol.41, No.2, December-2013, pp. 139-159.
15. **Md. Moinul Islam** and Md. Saiful Islam, "Utilization of natural resources for sustainable development: Role of Bangladeshi fly ash," *Journal of Civil Engineering, IEB*, Vol.42, No.1, June-2014, pp. 137-152.

16. **Md. Moinul Islam**, Md. Tarequl Alam, Farzana and Md. Saiful Islam, "Strength behavior of mortar made by using supplementary cementitious material as partial replacement of cement," *Journal of Civil Engineering, IEB*, Vol.45, No.1, June-2017, pp. 1-10.
17. **Md. Moinul Islam**, Md. Tarequl Alam and Md. Saiful Islam, "Effect of Fly Ash on Freeze-Thaw Durability of Concrete in Marine Environment," *Australian Journal of Structural Engineering*, Vol.19, No.2, March-2018, pp. 146-161.
18. Nafisa Tabassum, Pranta Biswas, Md. Saiful Islam and **Md. Moinul Islam**, "A Study on the Compressive & Flexural Strength Behavior of Steel Fiber Reinforced Concrete Beam," *International Journal of Advanced Research (IJAR)*, Vol.6, No.8, August-2018, pp. 557-567.

#### **(b) Conference Papers**

1. **Md. Moinul Islam**, Md. Saiful Islam and Bipul C. Mondal, "Effect of Slag on Hydration Characteristics of Concrete in Marine Environment," *National Conference on Materials Science & Technology for Sustainable Development Bangladesh Perspective*, 08 November 2009, Organized by Department of Physics, CUET.
2. **Md. Moinul Islam** and Md. Rafiqul Islam, "Strength Characteristics of Slag Blended Concrete in Marine Environment," *2<sup>nd</sup> International Conference on Engineering Education for Sustainable Development, Bangladesh*, 19-20 December 2009, Organized by World University of Bangladesh.
3. **Md. Moinul Islam** and Md. Saiful Islam, "Chloride Penetration Resistance of Fly Ash Cement Mortar," *Conference on Engineering Education, Research and Innovation*, 11-13<sup>th</sup> January, 2011, Organized By: The School of Applied Science, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
4. **Md. Moinul Islam** and Md. Saiful Islam, "Effect of Fly Ash on Rapid Chloride Penetration and Strength of Concrete," *International Conference on Environmental Technology and Construction Engineering for Sustainable Development*, 10-12<sup>th</sup> March, 2011, Organized By: Department of Civil And Environmental Engineering, Shahjalal University of Science & Technology, Sylhet, Bangladesh.
5. **Md. Moinul Islam** and Md. Saiful Islam, "Effect of Fly Ash on Water Permeability and Strength of Concrete," *International Conference on Mechanical Engineering and Renewable Energy*, 22-24<sup>th</sup> December, 2011, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.

6. **Md. Moinul Islam**, Md. Rafiqul Islam, Amrita Das and Md. Saiful Islam, "The UPV Study of Slag Concrete in Saline Environment," ***International Conference on Mechanical Engineering and Renewable Energy***, 22-24<sup>th</sup> December, 2011, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
7. **Md. Moinul Islam**, A. K. M Arifuzzaman, Mohammad Tarequl Alam and Md. Saiful Islam, "Effect of Fly Ash on Hydration Characteristics of Concrete in Sea Environment," ***International Conference on Mechanical Engineering and Renewable Energy***, 22-24<sup>th</sup> December, 2011, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
8. G. M. Sadiqul Islam, **Md. Moinul Islam**, Aysha Akter and Md. Saiful Islam, "Green Construction Material – Bangladesh Perspective," ***International Conference on Mechanical Engineering and Renewable Energy***, 22-24<sup>th</sup> December, 2011, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
9. **Md. Moinul Islam** and Md. Saiful Islam, "Prospect of Bangladeshi Fly Ash in Cement Production," ***1<sup>st</sup> International Conference on Civil Engineering for Sustainable Development*** (ICCESD 2012), 24-25<sup>th</sup> March, 2012, Organized By: Department of Civil Engineering, Khulna University of Engineering & Technology, Khulna, Bangladesh.
10. **Md. Moinul Islam** and Md. Saiful Islam, "Effect of Cement Replacement with Class F Fly Ash on Strength and Water Permeability of Concrete," ***3<sup>rd</sup> International Conference on Environmental Aspects of Bangladesh, 2012***, 13-14<sup>th</sup> October, 2012, Organized By: Bangladesh Environmental Network Japan, University of Kitakyushu, Fukuoka, **Japan**.
11. **Md. Moinul Islam** and Md. Saiful Islam, "Prospect of Green Concrete Production by using Boropukuria Fly Ash," ***1<sup>st</sup> International Conference on Advances in Civil Engineering*** (ICACE-2012), 12-14<sup>th</sup> December, 2012, Organized By: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
12. Md. A. Hasan **Md. Moinul Islam**, Md. H. Kabir and Md. Saiful Islam, "Strength Behavior of Mortar Using Slag as Partial Replacement of Sand," ***1<sup>st</sup> International Conference on Advances in Civil Engineering*** (ICACE-2012), 12-14<sup>th</sup> December, 2012, Organized By: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
13. **Md. Moinul Islam** and Md. Saiful Islam, "Utilization of Bangladeshi Fly Ash in Sustainable Developments Works," ***National Seminar on Utilization of Natural Resources for Sustainable Development***, 25-29<sup>th</sup> January, 2013, Organized By: The Institution of Engineers, Bangladesh.

14. **Md. Moinul Islam** and Md. Saiful Islam, "Utilization of Coal Burnt Fly Ash: Bangladesh Perspective," *International Conference on Climate Change Impact and Adaptation (I3CIA-2013)*, 15-17<sup>th</sup> November, 2013, Organized By: Center for Climate Change and Sustainability Research (3CSR), Department of Civil Engineering, DUET, Gazipur, Bangladesh.
15. **Md. Moinul Islam** and Md. Saiful Islam, "Performance of Fly Ash Concrete in Seawater against Freeze-Thaw Action," *2<sup>nd</sup> International Conference on Civil Engineering for Sustainable Development 2014*, 14-16<sup>th</sup> February, 2014, Organized By: **Department of Civil Engineering, Khulna** University of Engineering & Technology, Khulna, Bangladesh.
16. Sabrine Islam, Keya Chowdhury, S M Farooq, **Md. Moinul Islam** and Md. Saiful Islam, "A Comparative Study on the Load Carrying Capacity of RC Bored Piles," *2<sup>nd</sup> International Conference on Civil Engineering for Sustainable Development 2014*, 14-16<sup>th</sup> February, 2014, Organized By: **Department of Civil Engineering, Khulna** University of Engineering & Technology, Khulna, Bangladesh.
17. Md. Saiful Islam, Sabrine Islam, **Md. Moinul Islam** and Md. M. Z. Basunia, "Strength Deterioration of Brick Aggregate Concrete in NaCl Environment," *2<sup>nd</sup> International Conference on Civil Engineering for Sustainable Development 2014*, 14-16<sup>th</sup> February, 2014, Organized By: **Department of Civil Engineering, Khulna** University of Engineering & Technology, Khulna, Bangladesh.
18. **Md. Moinul Islam** and Md. Saiful Islam, "Dimensional Stability of Fly Ash Concrete under Freeze - Thaw Action in Saline Water," *International Conference on Mechanical Engineering and Renewable Energy*, 1-3<sup>rd</sup> May, 2014, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
19. Sabrina Islam, **Md. Moinul Islam** and Md. Saiful Islam, "Marine Environment and its Ill Effects on Structural Concrete", *International Conference on Mechanical Engineering and Renewable Energy*, 1-3<sup>rd</sup> May, 2014, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
20. **Md. Moinul Islam**, Sabrina Islam and Md. Saiful Islam, "Coal and its Combustion Products: A Global Perspective," *International Conference on Mechanical Engineering and Renewable Energy*, 1-3<sup>rd</sup> May, 2014, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
21. **Md. Moinul Islam** and Md. Saiful Islam, "Prospect of Utilization of Green Concrete for Marine Structures," *9<sup>th</sup> International Forum on Strategic Technology (IFOST 2014)*, 21-23<sup>rd</sup> October, 2014 at Cox's Bazar, Organized By: Chittagong University of Engineering & Technology, Chittagong, Bangladesh.

22. Md. Ibrahim Mostazid, Md. Refatul Karim Chy, **Md. Moinul Islam** and Md. Saiful Islam, "Non-Destructive Test Technique for the Assessment of Micro- Structural Characteristics of Concrete under Aggressive Environmental Condition," **9th International Forum on Strategic Technology (IFOST 2014)**, 21-23<sup>rd</sup> October, 2014 at Cox's Bazar, Organized By: Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
23. **Md. Moinul Islam** and Md. Saiful Islam, "Use of Fly Ash in Making Green Durable Concrete for Coastal Structures," **2nd International Conference on Advances in Civil Engineering 2014**, 26-28th December, 2014, Organized By: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
24. Sudipto Chakraborty, Taif Mahmud, **Md. Moinul Islam** and Md. Saiful Islam , "Use of Paper Industry Waste Making Low Cost Concrete, " **2nd International Conference on Advances in Civil Engineering 2014**, 26-28th December, 2014, Organized By: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
25. Md. Ibrahim Mostazid, Md. Refatul Karim, **Md. Moinul Islam** and Md. Saiful Islam, "Methodology for Assessing Corrosion of Reinforced Concrete in Marine Environment, " **2nd International Conference on Advances in Civil Engineering 2014**, 26-28th December, 2014, Organized By: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh
26. Nafisa Tabassum, Jonayed Kaiser Sourav, Md. Saiful Islam and **Md. Moinul Islam**, "A Study on the Strength Characteristics of Steel Fiber Reinforced Concrete," **2nd International Conference on Advances in Civil Engineering 2014**, 26-28th December, 2014, Organized By: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh
27. Md Refat Ahmed Bhuiyan, Md Saiful Islam and **Md Moinul Islam**, "A Study on the Strength Behaviour of Concrete in NaCl Environment," **2nd International Conference on Advances in Civil Engineering 2014**, 26-28th December, 2014, Organized By: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh
28. Sudipto Chakraborty, Taif Mahmud, **Md. Moinul Islam** and Md. Saiful Islam, "Utilization of Solid Waste from Paper Industry: Bangladesh Perspective," **2nd International Conference on Advances in Civil Engineering 2014, 26-28th December, 2014**, Organized By: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
29. **Md. Moinul Islam** and Md. Saiful Islam, "Prospect of Slag in Making Structural Concrete for Marine Environment," **3rd International Conference on Mechanical Engineering and Renewable Energy 2015, 26-29th November, 2015**, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.

30. Opu C. Debnath, Md. Saiful Islam and **Md. Moinul Islam**, "Use of Geopolymer Concrete as Green Construction Material - A Review," ***3rd International Conference on Mechanical Engineering and Renewable Energy 2015, 26-29th November, 2015***, Organized By: Department of Mechanical Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.
31. **Md. Moinul Islam**, Md. Tarequl Alam and Md. Saiful Islam, "Suitability of Supplementary Cementitious Materials in Making Sustainable Construction Materials," ***International Conference on Recent Innovation in Civil Engineering for Sustainable Development 2015, 11-13th December, 2015***, Organized By: Department of Civil Engineering, Dhaka University of Engineering & Technology, Gazipur, Bangladesh.
32. Opu C. Debanath, M. S. Rahman, Md. Saiful Islam and **Md. Moinul Islam**, "A Study on Strength and Durability of Slag (GGBS) based Geo polymer Mortar in Chloride Environment," ***International Conference on Recent Innovation in Civil Engineering for Sustainable Development 2015, 11-13th December, 2015***, Organized By: Department of Civil Engineering, Dhaka University of Engineering & Technology, Gazipur, Bangladesh.
33. **Md. Moinul Islam**, Md. Tarequl Alam and Md. Saiful Islam," Use of Coal Burnt Fly Ash as Sustainable Construction Material," ***1st International Conference on Advances in Civil Infrastructure and Construction Materials 2015, 14-15th December 2015***, Organized By: Department of Civil Engineering, Military Institute of Engineering & Technology, Dhaka, Bangladesh.
34. Opu C. Debanath, Md. Saiful Islam and **Md. Moinul Islam**,"Perfromance of Slag based Geoploymer Mortar in Acidic Environment," ***1st International Conference on Advances in Civil Infrastructure and Construction Materials 2015, 14-15th December 2015***, Organized By: Department of Civil Engineering, Military Institute of Engineering & Technology, Dhaka, Bangladesh.
35. **Md. Moinul Islam** and Md. Saiful Islam, "Future Prospect of Coal Combustion Products: Bangladesh Perspective," ***3<sup>d</sup> International Conference on Civil Engineering for Sustainable Development 2016***, 12-14<sup>th</sup> February, 2016, Organized By: **Department of Civil Engineering, Khulna** University of Engineering & Technology, Khulna, Bangladesh
36. **Md. Moinul Islam**, Md. Tarequl Alam and Md. Saiful Islam, "Boropukuria Fly Ash - A Prospective Green Material For Coastal Concrete," ***3<sup>d</sup> International Conference on Civil Engineering for Sustainable Development 2016***, 21-23<sup>rd</sup> February, 2016, Organized By: **Department of Civil Engineering**, Chittagong University of Engineering & Technology, Chittagong, Bangladesh
37. M. A. Qurishee, I. T. Iqbal, **Md. Moinul Islam** and Md. Saiful Islam, "Use of Slag as Coarse Aggregate and its Effect on Mechanical Properties of Concrete," ***3<sup>d</sup> International Conference on Civil Engineering for Sustainable Development 2016***, 21-23<sup>rd</sup>



February, 2016, Organized By: **Department of Civil Engineering**, Chittagong University of Engineering & Technology, Chittagong, Bangladesh

38. **Md. Moinul Islam**, Md. Tarequl Alam and Md. Saiful Islam, "Use of Supplementary Cementitious Materials in Concrete: Bangladesh Perspective," ***International Conference on Planning, Architecture and Civil Engineering***, 9-11<sup>th</sup> February, 2017, Organized By: **Faculty of Civil Engineering**, Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh

#### **FIELD OF INTEREST**

Blended Cement, Durability of Concrete in Marine Environment, Performance of Fly Ash and Slag Blended Concrete, Corrosion of Reinforcement in Aggressive Environment, Mix Design of Blended Cement Concrete.

#### **COMPUTER LITERACY**

Auto-CAD, ETABS, GRASP, MS Office, FORTRAN etc.

#### **LANGUAGE PROFICIENCIES**

**English:** Speaking, Writing, Listening and Reading fluently as Studied and Currently teaching undergraduate courses in English.

**Bengali:** As Mother Tongue

#### **AWARD/SCHOLARSHIP**

- **Gold Medal** from Chittagong University of Engineering & Technology, Chittagong in the year 1998 for highest CGPA among all the students of session 1991-92.
- National Science and Information, Communication and Technology Fellowship for Ph.D. research work funded by **Bangladesh Government** (2009).
- Board scholarship on the basis of Higher Secondary Certificate examination result (1991).
- Board scholarship on the basis of Secondary School Certificate examination result (1989).
- Junior School Scholarship (1986).
- Primary School Scholarship (1983).

#### **PERSONAL INFORMATION**

Name : Md. Moinul Islam  
Father's Name : Md. Hafizul Islam  
Mother's Name : Portia Islam  
Religion : Islam  
Sex : Male  
Marital Status : Married  
Date of Birth : 12/06/1974  
Nationality : Bangladeshi

## Present Address

Professor  
Department of Civil Engineering  
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## Permanent Address

**C/O Md. Hafizul Islam**  
Hazi Mansion  
Robindra Nath Road  
Jessore-7400, Bangladesh.

## RESEARCH

### **Ph.D. Research:**

I have worked on the **Durability of Reinforced Blended Cement Concrete in Marine Environment** under the supervision of Dr. Md. Saiful Islam, Professor, Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.

### **M.Sc. Research:**

I have worked on the **Behavior of Slag Concrete in Marine Environment** under the supervision of Dr. Md. Saiful Islam, Professor, Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong, Bangladesh.