



Dr. Abu Zakir Morshed

Professor

Research Area Structural and Material Engineering

Biography

Dr. Abu Zakir Morshed completed his B.Sc. Engineering degree from Department of Civil Engineering, KUET (erstwhile BIT Khulna), Bangladesh in 1999, M.Sc. Engineering degree from University of Tokyo, Japan in 2003 and his Ph.D. from McGill University, Canada in 2013. Dr. Morshed started his career in the Department of Civil Engineering, KUET, Bangladesh as a lecturer in 1999 and later promoted to the position of a Professor in 2015. He has been involved in active teaching and research. Dr. Morshed's expertise is in the area of structural engineering, civil engineering materials and their structural applications. His research area is involved with cement & concrete technology, accelerated curing of cement-based precast products, recycling and reuse of demolished building wastes, environment friendly building materials, and durability design of structures, etc. He also has expertise in structural design of high-rise buildings, capacity assessment of existing structures, renovation and retrofitting of old structures.

Education

Ph. D.

McGill University, Montreal, Canada (2013)

M.Sc. Engg.

University of Tokyo, Tokyo, Japan (2003)

B.Sc. Engineering (Civil)

Khulna University of Engineering & Technology (KUET), Bangladesh (1999)

Service Records

- **Professor**

Department/Section: Department of Civil Engineering

Khulna University of Engineering & Technology From 01-01-1970 to 01-01-1970

Research Interest

Structural and Material Engineering

- > Cement & concrete technology
- > Accelerated curing of cement-based precast products
- > Recycling and reuse of demolished building wastes
- > Environment friendly building materials
- > Durability design of reinforced concrete structures
- > Structural design of high-rise buildings
- > Capacity assessment of existing structures
- > Renovation and retrofitting of old structures.

Publication

Books

Journals

12. (2022) , " Shear strengthening design of pre-cracked reinforced concrete beams using bonded and bolted steel plates," **Australian Journal of Structural Engineering**, Taylor & Francis
11. Shakib, S. , Morshed, A. Z. , Kholil, M. I. and Hossain, M. A. (2022) , " Simulation of reinforced concrete beam retrofitted with steel angles subjected to flexure," **Multidiscipline Modeling in Materials and Structures**, Emerald Publishing Limited, vol18, no.2, pp.351-369
9. Shakib, S. , Morshed, A. Z. and Ali, a. M. H. (2020) , " Experimental and Numerical Simulation of Corrosion Induced Expansive Pressure on Concrete Cover," **Engineering Solid Mechanics**, vol8, no.1, pp.21-30

Conference