

Md. Basir Zisan

Assistant Professor

Department of Civil Engineering

Chittagong University of Engineering & Technology (CUET)

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CAREER OBJECTIVES

Development of an independent research facilities at my own university. The goal is to be a resourceful faculty member expertise on Earthquake and Tsunami Disaster Prevention and Mitigation, Structural Dynamics, Seismic Isolation and Seismic Retrofitting of existing structures and support national and international collaborative research with researchers and stockholders. At the same time I like to accomplish the Doctor of Philosophy which will strengthen my research background and help to make national and international collaboration.

EDUCATIONAL BACKGROUND

Degree Name	Institution	Result (CGPA /GPA) (Out of)	% Marks	Graduation Year	Thesis	Supervisor
M.Engg in Civil	Hokkaido University, Japan	3.60 (4.0)	87.53	September 2014	Dynamic Behavior and Distortion-Induced Stress in Curved Multi-girder bridge under moving vehicles.	Prof. Toshiro Hayashiwaka, Email: toshiroh@eng.hukudai.ac.jp
B. Sc. in Civil	Chittagong University of Engineering & Technology, Bangladesh	1st Position 3.68 (4.0)	77.6	June 2009.	Retrofitting of R.C.C. Building Frame Damaged by Earthquake	Prof. Dr. Md. Rabiul Alam, Email: arabiul07@yahoo.com
H.S.C	Adhyapak Abdul Majid College, Bangladesh	4.40 (5.0)	N/A	October 2003	N/A	N/A
S.S.C	Fardabad High School, Bangladesh	4.13 (5.0)	N/A	July 2001	N/A	N/A

RESEARCH AND/OR RELEVANT PROFESSIONAL EXPERIENCE

Employer:	Chittagong University of Engineering & Technology (CUET)
Industry:	University
Period:	30 June 2009 to till date
Position:	Assistant Professor (March 2015 to till date) and Lecturer (30 June to February 2015)
Duties:	i) Teaching undergraduate students, ii) Thesis supervision of final year student, iii) Research collaboration with my colleagues iv) Course coordinator of undergraduate student v) Assistant Provost in the student residence hall vi)

	Evaluation of tender documents and project works vii) Consultancy works under Bureau of Research, Testing and Consultancy (BRTC)
Relevance to Research	I am supervising four undergraduate students on bridge engineering and seismic isolation using soil-rubber mixture. During my teaching period, I have published several conference and journal paper at the end of this document. In addition, I am trying to build a research team with my student and colleagues. Here I am giving lectures on FE computer program which increases my knowledge on application of FE program.

Employer:	Bangladesh Military Academy
Industry:	University (Under Military Institute of Science and Technology)
Period:	a) 30 June 2015 to October 2015 and b) 01 July 2017 to till date
Position:	Assistant Professor (Adjunct Faculty)
Duties:	Teaching the Engineering software Auto-CAD and its application in Civil Engineering Drawing, Design of Concrete Structure and Mechanics of Solid.
Relevance to Research	It is helpful for drawing and drafting purposes and academic knowledge

Employer:	Newcastle University College
Industry:	Affiliated by Chittagong University
Period:	a) 01 January 2017 to to till date
Position:	Assistant Professor (Adjunct Faculty)
Duties:	Teaching, Thesis students supervision, Exam conducting activities, Decision making, etc.
Relevance to Research	UG student are doing thesis on performance of concrete using rice husk as a partial replacement of cement. Another group doing their thesis on flexural performance of beam reinforced with ferrocement.

Employer:	ACI Engineers
Industry:	Development Company (Private)
Period:	June, 2010 to November, 2011.
Position:	Structural Design Engineer (Part-time)
Duties:	Analyzing and Design of Civil Engineering structures specially building.
Relevance to Research	To realize the practical problems in building design, application of building code, structural behavior under dynamic loadings etc. These practical knowledge enriched myself in understanding the practical Civil Engineering problems.

Employer:	Executive Body
Industry:	CUET Teacher Association
Period:	December, 2015 to till date
Position:	Treasurer
Duties:	Active member in CUET teacher association. Organizing and decision making on behalf of teachers.
Relevance to Research	N/A

RESEARCH OF INTEREST

I am interested on Earthquake and Tsunami Disaster Prevention and Mitigation, Structural Dynamics, Seismic Isolation and Seismic Retrofitting of existing structures, Bridge Vehicle

Interaction, etc.

STUDENT SUPERVISION

Following two thesis are finished completely under my supervision

- i. Hossain M., (2016). Distortion-Induced Stress and Retrofitting Technique for Curve Twin-I Girder Composite Bridge, *Undergraduate Thesis*, Chittagong University of Engineering & Technology.
- ii. Hossain M.A & Anwar A., (2017). Low cost seismic isolation for low-to-medium rise building soil-rubber mixture, *Undergraduate Thesis*, Chittagong University of Engineering & Technology.
- iii. Mithu & Anindha, (2017). Performance evaluation of cracked beam retrofitted by Ferro cement, *Undergraduate Thesis (continuing)*, Chittagong University of Engineering & Technology.

COURSES OFFERED

I am interesting on structural engineering, especially dynamics of structure, structure under wind and seismic load. I have offered Mechanics of Materials, Structural analysis & Design, Design of Concrete Structure, Numerical Analysis in Civil Engineering, etc.

COMPUTER LITERACY

I am capable of using FEM computer programs like STAAD-Pro, ETABS, SAP2000, ANSYS, ABAQUS, and CSI Column etc. Computer modeling and simulation is one of my enthusiasms. I also know other computer program like GEAR, GRASP, Mdsolid, Fortran77, Auto-CAD etc.

Operating System: Capable to work with any version of Windows, Vista & Mac.

LANGUAGE PROFICIENCIES

- i. **English:** Speaking, Writing, Listening and Reading fluently as I taught previously in my home university English as a medium of instruction and also studied M.Sc. in Hokkaido University.
IELTS Score 6.0 (Reading: 6.0, Writing: 6.5, Speaking: 6.0 and Listening: 6.0)
- ii. **Bangali:** As Mother Tongue
- iii. **Japanese:** Poor as I was in Japan for two years

AWARD AND PRIZES

- i. Japanese Government Scholarship (Monbukagakusho Scholarship)
- ii. Bangladesh Government Technical Scholarship from 2005-2009

OTHERS ACTIVITIES

- i. Member, The Institution of Engineers, Bangladesh, IEB.
- ii. Treasurer, CUET Teacher Association, January 2016 to until.
- iii. Assistant Provost, CUET male student residence hall (December 2015 to December 2016)
- iv. Student Member, Japan Society of Civil Engineering (JSCE), Japan

PERSONAL INFORMATION

Name: Md. Basir Zisan
Father's Name: Abdul Gani
Sex: Male
Marital Status: Married

Date of Birth: 01 February 1986
Nationality: Bangladeshi

PRESENT ADDRESS

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PERMANENT ADDRESS

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Vill+P.O.:Fordabad
Upazila:Bancharumpur
District: Brahmanbaria
Postal Code: 3420
Bangladesh.

ADDRESS OF REFEREES

Referee 1#

Name: **Toshiro HAYASHIWAKA**
Position: **Professor (Retired)**
Address: Laboratory of Bridge and Structural Design Engineering, Hokkaido University, 5 Kita , 8 Jo-Nishi, Sapporo, Hokkaido, Japan
Tel: 011-706-6170
Email: *toshiroh@eng.hukudai.ac.jp*

Referee 2#

Name: **Dr. Md. Jahangir Alam**
Position: **Professor & Ex-Vice Chancellor**
Address: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong-4349.
Tel: +880-1819345077
Email: *mjalam1232002@yahoo.com*

Referee 3#

Name: **Dr. Md. Saiful Islam**
Position: **Professor**
Address: Department of Civil Engineering, Chittagong University of Engineering & Technology, Chittagong-4349.
Tel: +880-01713109920
Email: *msislam@cuet.ac.bd*

LIST OF PUBLICATIONS:

i. JOURNAL PAPER:

Authorship	Md. Basir Zisan¹, M.R. Alam², Md. Mehedi Hasan³ and Sayeda Saima Akter⁴,
Type of Publication	Journal article
Referred Publication	Yes
Title	Cyclone resistant low cost housing in coastal area of Bangladesh
Journal and Page Number	International Journal of Science, Environment and Technology, Vol. 2, No 1, page: 48 – 55.

Authorship	Md. Akhter Jamil ^{1*} , Md. Basir Zisan¹ , Md. Rabiul ² , Hafizul Alim ³ .
Type of Publication	Journal article
Referred Publication	Yes
Title	Restrengthening of RCC beam by beam jacketing.
Journal and Page Number	Malaysian Journal of Civil Engineering, Vol. 25, No. 2, page: 119-127

Authorship	Hafizul Alim ¹ and Md. Basir Zsan¹
Type of Publication	Journal article
Referred Publication	Yes
Title	Evaluation of probabilistic failure of bridge pier.
Journal and Page Number	International Journal of Structural and Civil engineering Research, Vol. 2, No. 2, page: 32-39.

Authorship	M.N. Haque ^{*13} , M.B. Zisan²³ & M.R. Alam ³
Type of Publication	Journal article
Referred Publication	Yes
Title	Seismic response analysis of base isolated building: Effect of lead rubber bearing characteristics.
Journal and Page Number	Malaysian Journal of Civil Engineering, Vol. 25, No. 2, page: 154-167

Authorship	Md Basir ZISAN[*] , Toshiro HAYASHIKAWA ^{**} , Takashi MATSUMOTO ^{***} and Xingwen HE ^{****}
Type of Publication	Journal article
Referred Publication	Yes
Title	Dynamic response and distortion-stress in curved multi-girder bridges subjected to high-speed moving vehicles.
Journal and Page Number	Journal of Structural Engineering, JSCE, Vol.61A , page: 119-130.

Authorship	Md Basir ZISAN[*] , Tetsuji OHTA ^{**} , Toshiro HAYASHIKAWA ^{***} , and Md Robiul AWALL ^{****}
Type of Publication	Journal article
Referred Publication	Yes
Title	Dynamic Behavior of Curved Multi- girder Express Highway Bridge under Moving Vehicle.
Journal and Page Number	Constructional Steel, Vol.22, JSSC, page: 206-213.

Authorship	Md Basir ZISAN¹ , Md. Naimul Haque ² and M. Z. MOUSUMI ³
Type of Publication	Journal article
Referred Publication	Yes
Title	Dynamic response of RCC curve-skew bridge deck supported by steel multi-girder under moving vehicles
Journal and Page Number	Under reviewed by Arabian Journal of Civil Engineering, Springer.

Authorship	Md. Basir Zisan ¹ , Md Naimul Haque ² and Md. Robiul Awall ³
Type of Publication	Journal article
Referred Publication	Yes
Title	LIVE LOAD DISTRIBUTION FACTOR (LDF) OF SKEW COMPOSITE GIRDER BRIDGE UNDER MOVING VEHICLE
Journal and Page Number	Under reviewed by International Journal of Civil Engineering, Springer

Authorship	Md. Mamun Hossain ¹ , Md. Basir Zisan ² and Md. Naimul Haque ³
Type of Publication	Journal article
Referred Publication	Yes
Title	Analysis for Distortion-Induced Stress and Retrofitting Technique for Curve Twin-I Girder Composite Bridge
Journal and Page Number	Under reviewed by Arabian Journal of Science and Engineering, Springer

ii. CONFERENCE PAPER:

Authorship	Md. Basir Zisan ¹ , Md. Naimul Haque ² and M. S. U. Chowdhury ³
Type of Publication	Conference article
Referred Publication	Yes
Title	A Finite Element Analysis for Optimization of Flexural Cracked Beam Strengthened using CFRP composites
Journal and Page Number	Proceedings of the International Conference on Mechanical Engineering and Renewable Energy 2011, (ICMERE2011) 22- 24 December 2011, Chittagong, Bangladesh, Page. 1-6.

Authorship	Md Basir ZISAN , Toshiro HAYASHIKAWA, Takashi MATSUMOTO, Xingwen HE, Tetsuji OHTA and Md Robiul AWALL
Type of Publication	Conference article
Referred Publication	Yes
Title	Dynamic behavior of horizontally curved multi-girder express highway bridge under moving vehicle
Journal and Page Number	Japan Society of Civil Engineerin, Hokkaido Branch

Authorship	Md Basir Zisan ^{1*} , Toshiro Hayashikawa ¹ , Tetsuji Ohta ¹ , Takashi Matsumoto ¹ , Xingwen He ¹
Type of Publication	Conference article
Referred Publication	Yes
Title	Dynamic response of curved-skew multi-girder bridge under moving vehicles
Journal and Page Number	2nd International Conference on Advances in Civil Engineering 26 –28 Dec, 2014 CUET, Chittagong, Bangladesh

Authorship	Md Basir Zisan ^{1*} , Toshiro Hayashikawa ² , M. Z. Mousumi ³ , Md Naimul Haque ⁴
Type of Publication	Conference article
Referred Publication	Yes
Title	Dynamic Response of RCC Curve-Skew Bridge Deck Supported by

	Steel Multi-Girders
Journal and Page Number	International Conference on Recent Innovation in Civil Engineering for Sustainable Development (IICSD-2015), Department of Civil Engineering, DUET - Gazipur, Bangladesh, Page. 584-589.

Authorship	M. B. Zisan ¹ , M. Z. Mousumi ² , M. N. Hoque ³
Type of Publication	Conference article
Referred Publication	Yes
Title	EFFECT OF SKEW ANGLE ON LIVE LOAD DISTRIBUTION OF SKEW COMPOSITE GIRDER BRIDGE
Journal and Page Number	Proceedings of the 3rd International Conference on Civil Engineering for Sustainable Development (ICCESD 2016), 12~14 February 2016, KUET, Khulna, Bangladesh (ISBN: 978-984-34-0265-3).

Authorship	M.R. Awall ^{*1} , T. Hayashikawa ² , T. Humyra ³ and M.B. Zisan ⁴
Type of Publication	Conference article
Referred Publication	Yes
Title	FREE VIBRATION CHARACTERISTICS OF HORIZONTALLY CURVED CONTINUOUS MULTI I-GIRDER BRIDGE
Journal and Page Number	Proceedings of the 3rd International Conference on Civil Engineering for Sustainable Development (ICCESD 2016), 12~14 February 2016, KUET, Khulna, Bangladesh (ISBN: 978-984-34-0265-3).

Authorship	M. Hossain & M. B. Zisan
Type of Publication	Conference article
Referred Publication	Yes
Title	Parametric Study on Live-Load Distribution in Lateral Direction of a Skew Composite Bridge
Journal and Page Number	Proceedings of 3rd International Conference on Advances in Civil Engineering (ICACE-2014), 21-23 December 2016, CUET, Chittagong, Bangladesh (ISBN:)

DECLARATION

I hereby declare that to the best of my knowledge and believe the above information are composed by me, and correctly present my qualifications and experiences.

Date: 10.12.2017



Md. Basir Zisan