

CURRICULUM VITAE

EHSAN AHMED, PH.D., P.ENG.

1. PRESENT STATUS

ACADEMIC POSITION: Lecture, Architectural and Engineering Technology
Faculty of Science
Thompson Rivers University,
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2. ACADEMIC/PROFESSIONAL PARTICULARS

(A) FIELD OF SPECIALIZATION: Civil and Structural Engineering

(B) ACADEMIC QUALIFICATIONS:

- **PhD, Structural Engineering**, University Kebangsaan Malaysia, Malaysia, 2000
- **MSc. Eng., Civil & Structural Eng.**, University Kebangsaan Malaysia, Malaysia, 1996.
- **BSc. Eng., Civil Engineering**, Bangladesh University of Eng. & Technology (BUET), Dhaka, Bangladesh, 1989.

(C) ACADEMIC HONOURS AND AWARDS:

- **Post-doctoral Fellowship**, Ibaraki University, Hitachi, Japan; 2004-05.
- Research Fellowship, Ministry of Education Malaysia & University Kebangsaan Malaysia, 1996-1999.
- University Scholarship, Bangladesh University of Engineering & Technology, 1986-1989.
- **UNESCO Grant**, to Participate in the Regional Training Course on Simulation Models in Engineering and Technology, IIT Madras, 12-23 March, 2001, India.
- **Netherland Government's grant**, for Participating Post-graduation course on 'Aseismic Design and Construction'. Institute of Earthquake Engineering & Engineering

Seismology, University of St. Cyril and Methodius, Skopje, Sept. 21-Dec.11, 2001, Macedonia.

(D) MEMBERSHIP OF PROFESSIONAL BODIES:

- Member (PEng.); Engineers & Geoscientists of British Columbia (since 05/2017)
- Professional Engineers Ontario, Canada, Member (PEng.) (since 07/2014)
- Institution of Engineers Bangladesh, Life Fellow (FIEB), (since 06/2002)

3. CAREER DETAILS

(A) ACADEMIC POSITIONS HELD:

- **Lecturer**, Architectural & Engineering Technology, Faculty of Science, Thompson Rivers University, Canada, July 2015-till to date.
- **Associate Professor**, Civil Engineering, University Malaysia Sarawak, Malaysia, July 2007-June 2011.
- **Senior Lecturer**, Civil Engineering, Curtin University of Technology, Australia (Malaysian Campus), April 2005-June 2007.
- **Assistant Professor**, Department of Civil Engineering, Chittagong University of Engineering & Technology (CUET), Bangladesh, April 2000-March 2005.
- **Lecturer**, Civil Engineering, Chittagong University of Engineering & Technology (CUET); Bangladesh, October 1990-April 2000.

(Please note that I have completed Masters and PhD degree within the period of 1994-1999 by taking study leave from CUET).

- **Teaching Assistant** (Civil Engineering), Bangladesh University of Engineering & Technology (BUET), Bangladesh, January 1990-October 1990.

(B) PROFESSIONAL/INDUSTRIAL POSITIONS HELD:

- **Design Quality Engineer**, AECOM Canada LTD, June 2014-July 2015.
- **Research Professional**, Civil Engineering, **University of Sherbrooke**, Canada, August 2011-June 2014.

- **Post-doctoral Fellow**, Department of Civil & Urban Engineering, **Ibaraki University**, Japan, January 2004-January 2005.
- **Research Assistant**, Department of Civil Engineering, University Kebangsaan Malaysia June 1994-February 1996 and June 1996-October 1999.
- Member, **Bureau of Research, Testing & Consultation**, Chittagong University of Engineering & Technology, 1990-1994 and 1999-2004.

(C) ADMINISTRATIVE POSITIONS HELD:

- **Laboratory Coordinator**, Heavy Structural Engineering Laboratory, **University Malaysia Sarawak (UNIMAS)**, 2008-2009 and 2009-2010.
- **Member**, OBE (Outcome Based Education) Committee, UNIMAS (2009-2011)
- **Member**- Tender evaluation and Purchase Committee, Engineering Faculty, **UNIMAS** (2009-2010)
- **Member**, Technical committee for the 2nd Engineering Conference (Encon 2008), UNIMAS, Sarawak, Malaysia, 2008
- **Provost**, Student Hall; Chittagong University of Engineering & Technology (CUET), Bangladesh, 2001-2003.
- **Chairman**, Transport Committee, CUET, February-September, 2006.

4. TEACHING CONTRIBUTIONS

(A) BRIEF OVERVIEW:

I have more than 25 years of teaching experience in the field of Civil and Structural Engineering. Over these years, I have taught many courses at undergraduate and graduate levels in different universities and countries. I strive to integrate research and scholarship with teaching and learning. At TRU, I have presented and published my education related research in some symposium and conferences and planning to publish these in peer reviewed journals. I was also active in developing new courses, departmental program review and in accreditation process. At TRU, I have developed and design new courses for our 4th year program.

Some of the **highlights** of my teaching contributions are shown below:

- Twenty five (25) years of teaching experience in different universities and countries including four (04) years at TRU.
- Taught more than thirty five (35) different courses at graduate and undergraduate levels including Ten (10) courses at TRU.
- Strong and consistent student teaching evaluation results with an average combine mean of 1.9 out of a scale of 6.0, which is well below the cut-off value of science 3.0. (please note the scale as 1: strongly agree,.... , 6:strongly disagree)
- Excellent and consistent peer teaching evaluations.
- Developed new courses for 4th year program at TRU.
- Supervised many undergraduate students' research projects.
- Presented and published teaching related papers in peer reviewed conferences.
- Reviewed research articles for journals.
- PhD Thesis Examiner (University of Sherbrooke, UNIMAS).
- Supervised Masters Student thesis and Projects (UNIMAS).
- Received Faculty Awards for excellence in Teaching, UNIMAS, 2008 & 2009.
- Supervised PhD student (University of Sherbrooke, UNIMAS).
- Hired and supervised students as research Assistant (UNIMAS).
- Received research Grants (UNIMAS and CURTIN University).

(B) COURSES TAUGHT AND DEVELOPED

I) THOMPSON RIVERS UNIVERSITY, KAMLOOPS, BC, CANADA 2015-2019

Courses Taught:

1. ARET 4600: Civil Structural 1 (2,0,2); 2 Credits - 4th Year
2. ARET 4610: Civil Structural 2 (2,0,2); 2 Credits - 4th Year
3. ARET 4300: Architectural & Planning Systems 1 (2,2,2); 3 Credits - 4th Year (Structure portion)
4. ARET 4310: Architectural & Planning Systems 2 (2,2,2); 3 Credits - 4th Year (Structure portion)

5. ARET 3600: Structural Analysis (3,0,0); 3 Credits - 3rd year
6. ARET 3400: Fluid Mechanics (4,0,0); 3 credits - 3rd year
7. ARET 2600: Statics and Strength of Materials (5,0,0); 3 Credits - 2nd year
8. ARET 1400: Civil Technology 1 (4,1,2); 3 Credits-1st year
9. ARET 1410: Construction Surveying (60 Hours); 3 Credits-1st year
10. DRAF 1520: Engineering Graphics (2,0,3); 3 Credits-1st year (Engineering Transfer Program)

New Course Developed:

1. Civil Structural 1 (ARET 4600)-4th Year
2. Civil Structural 2 (ARET 4610)-4th Year
3. Architectural & Planning Systems 1 (ARET 4300) 4th Year (Structure portion)
4. Architectural & Planning Systems 2 (ARET 4310) 4th Year (Structure portion)

II) UNIVERSITY SARAWAK MALAYSIA (2007-2011)

Courses Taught:

At Undergraduate Level:

1. KNS 1013, Statics, 3 Credits-1st Year
2. KNS 1053, Dynamics, 3 credit-1st Year
3. KNS 1063 Strength of Materials, 3 Credits-1st Year
4. KNS 1633 Engineering Mechanics, 3 credit -1st Year (old)
5. KNS 1461 Civil Engineering Laboratory 2-1st Year
6. KNS 2413 Introduction to Reinforced Concrete Design 3 credits -2nd year
7. KNS 3173 Reinforced Concrete Design, 3 credits-3rd Year (old)
8. KNS 3643 Reinforced Concrete Design, 3 credits-3rd Year (new)
9. KNS 4442 Integrated Design Project (semester 1 & 2)-4th Year

At Graduate Level:

1. KNS-6213 Advanced Prestressed Concrete design, 3 Credit- Master's Program
2. KNS 6603 Advance Numerical Methods in Civil Engineering, 3 Credits- Master's Program

New Courses Developed:

1. KNS-6213 Advanced Prestressed Concrete design,3 Credit- Master's Program
2. KNS 6603 Advance Numerical Methods in Civil Eng., 3 Credits- Master's Program
3. KNS 4442 Integrated Design Project (semester 1 & 2)-4th Year

Teaching Award:

Received excellent academic staff award (**Teaching**) in the year of 2008 and also in 2009, Faculty of Engineering, University Malaysia Sarawak.

III) CURTIN UNIVERSITY OF TECHNOLOGY (2005-2007)

Course Taught:

1. Engineering Mechanics 100, 25 credit points (Sem1 & Sem 2)-1st Year
2. Structural Design 266, 25 Credit points (semester 2)-2nd Year
3. Civil & Structural Design 365 , 25 Credit points (semester 1)-3rd Year
4. Civil & Structural Design 366, 25 Credit Points (semester 2)-3rd year
5. Geotechnical Engineering 466, 12.5 Credit Points (Semester 2)-4th Year
6. Integrated Design and Construction 463 (Semester 1& 2)-4th Year

New Courses Developed:

1. Integrated Design and Construction 463 (Semester 1 & 2)-4th Year

Staff Award:

Obtained YB Lee Award for Staff Achievement 8 June 2007 "*Curtin Recreational Committee*" Curtin University of Technology, Sarawak.

IV) Chittagong University of Engineering & Technology (1990-1996 and 1999-2004)

Course Taught:

1. CE-100 Civil Engineering Drawing, No. of Credit: 1.0

2. CE-101 Engineering Mechanics, No. of Credit: 4
3. CE-105 Surveying No. of Credit: 4
4. CE-106 Practical Surveying, No. of Credit: 1.5 (2 Weeks in the field)
5. CE-200 Details of Construction and Estimating, No. of Credit: 1.5
6. CE-203 Engineering Materials, No. of Credit: 4
7. CE-204 Engineering Materials (Sessional), No. of Credit: 1
8. CE-211 Mechanics of Materials-I, No. of Credit: 3
9. CE-212 Mechanics of Materials (Sessional), No. of Credit: 1.5
10. CE-213 Mechanics of Materials-II, No. of Credit: 3
11. CE-261 Fluid Mechanics, No. of Credit: 4
12. CE-262 Fluid Mechanics (Sessional), No. of Credit: 1.5
13. CE-311 Structural Analysis & Design-I, No. of Credit: 3
14. CE-312 Structural Analysis & Design (Sessional-I), No. of Credit: 1.5
15. CE-313 Structural Analysis & Design-II, No. of Credit: 3
16. CE-361 Open Channel Flow, No. of Credit: 3
17. CE-400 Project & Thesis, No. of Credit: 3
18. CE-411 Structural Analysis & Design-III, No. of Credit: 4
19. CE-412 Structural Analysis and Design (Sessional- III), No. of Credit: 1.5
20. CE-413 Structural Analysis & Design-IV, No. of Credit: 2
21. CE-414 Structural Analysis & Design (Sessional-IV),No. of Credit: 1.5
22. CE-415 Prestressed Concrete, No. of Credit: 2
23. CE-418 Design of Steel Structures (Sessional), No. of Credit: 1.5

(C) SUMMARY OF TEACHING EVALUATIONS:

Summary of my teaching evaluation results are presented here in tabular and graphical form.

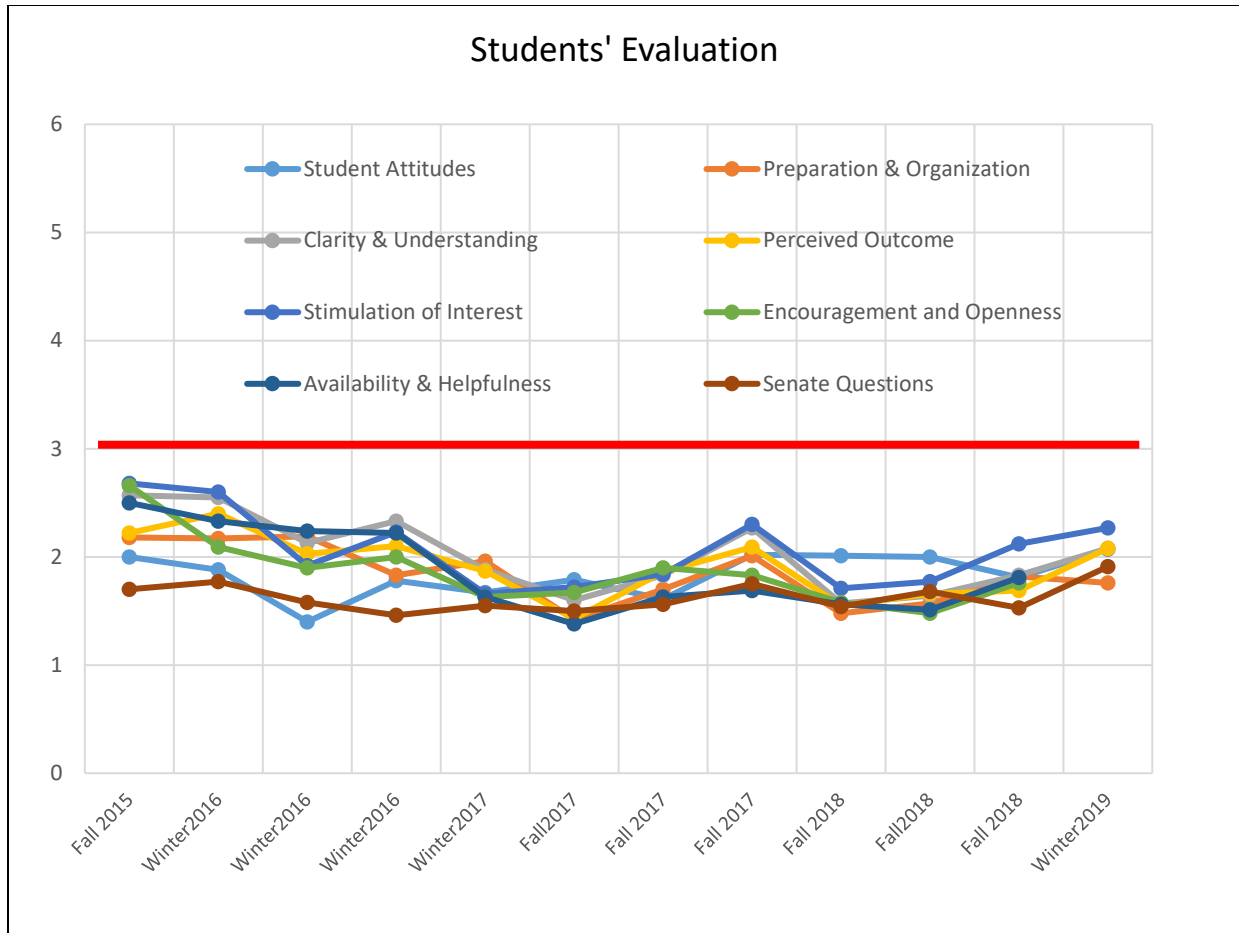
(For the details, please see the 'Teaching Dossier' folder).

I) THOMPSON RIVERS UNIVERSITY, KAMLOOPS, BC, CANADA 2015-2019

	Period	Student Attitudes	Preparation & Organization	Clarity & Understanding	Perceived Outcome	Stimulation of Interest	Encouragement & Openness	Availability & Helpfulness	Senate Ques.
ARET 4600	Fall 2015	2.00	2.18	2.57	2.22	2.68	2.66	2.50	1.70
ARET 1400	Winter 2016	1.88	2.17	2.55	2.4	2.6	2.09	2.33	1.77
ARET 1410	Winter 2016	1.4	2.19	2.13	2.03	1.92	1.9	2.24	1.58
ARET 4610	Winter 2016	1.78	1.83	2.33	2.10	2.23	2.00	2.22	1.46
ARET 1410	Winter 2017	1.67	1.96	1.88	1.87	1.66	1.63	1.63	1.55
ARET 3400	Fall 2017	1.79	1.42	1.60	1.43	1.72	1.67	1.38	1.50
ARET 3600	Fall 2017	1.61	1.70	1.83	1.86	1.84	1.90	1.63	1.56
DRAF 1520	Fall 2017	2.02	2.01	2.27	2.09	2.30	1.83	1.69	1.75
ARET 3400	Fall 2018	2.01	1.48	1.57	1.55	1.71	1.58	1.56	1.54
ARET 3600	Fall 2018	2.00	1.57	1.64	1.66	1.77	1.48	1.51	1.68
DRAF 1520	Fall 2018	1.81	1.82	1.83	1.69	2.12	1.76	1.81	1.53
ARET 1400	Winter 2019	2.07	1.76	2.08	2.08	2.27	1.89	2.06	1.91
Mean		1.84	1.84	2.02	1.92	2.07	1.87	1.88	1.63

Combined Mean = 1.9 < 3.0 (Science Cut-off Value)

Senate Questions Mean = 1.6 < 2.0



Note: All evaluations criteria uses a 6-point scale (1-6): **1-Strongly Agree**,, **6-Strongly Disagree**.
Senate questions uses a 4 point scale (1-4): **1-strongly Agree**,, **4-strongly Disagree**.
Solid Red line indicates 'science cut-off value'.

The all mean values in table are well below the minimum **cut-off value (3.0)** and it indicates a strong and consistent teaching evaluation with an averaged combined mean **1.9 out of 6 scale**.

II) UNIVERSITY SARAWAK MALAYSIA, KUCHING, MALAYSIA 2007-2011

- I have received **excellent (Score > 90 out of 100)** teaching evaluation results from the students for almost all the courses I taught.
- I have received **best academic staff award (teaching)** from the faculty of Engineering for the two consecutive years 2008 and 2009 during my appointment at University Malaysia Sarawak.

5. SERVICE CONTRIBUTIONS

(A) BRIEF OVERVIEW:

As a faculty member at Thompson Rivers University since 2015, I have taken on a variety of roles to serve the department, faculty, university and profession as well as the community. Over the past four (04) years at TRU, I have served in different committees as **highlighted** below:-

- TRUFA Shop Stewards Committee,
- Senate Steering Committee and
- Teaching and Learning Committee of the University.
- Serving for the Faculty and the Department as a member of various committee.
- Serving various professional bodies.
- Serving the profession as a reviewer of peer reviewed Journals and conferences.
- Serving the communities by organizing community based program.

(B) POSITIONS AND COMMITTEE SERVED

AT THOMPSON RIVERS UNIVERSITY

- Member, TRUFA Stewards Committee, 2016-present
- Member, Senate Steering Committee, 2018-present
- Member, Teaching & learning Committee, 2019- present
- Member, Engineering Program Curriculum Development Committee
- Member, program review committee
- Member, Department workload committee
- Member, Course learning outcome committee

(C) PROFESSIONAL AFFILIATIONS

- Member, Engineers & Geoscientist of British Columbia (EGBC)
- Member, Professional Engineers of Ontario (PEO)
- Fellow, Institute of Engineers, Bangladesh (IEB)
- Member, Bangladesh Earthquake society (BES)
- Life member, BUET Alumni Association

(D) JOURNAL REVIEWER

I have worked as reviewer for few international journals and successfully completed the review of many journal articles. Currently, I am working as reviewer of the following Journals:

- **Journal of Construction and Building Material; Elsevier Science** (<https://www.journals.elsevier.com/construction-and-building-materials>)
- **International Journal of Engineering (IJE), ISSN 1025-2495, Materials and Energy Research Center, IRAN.** (Since 2007) (www.ije.ir)
- **Scientific Research and Essays, ISSN 1992-2248** Since 2008 (www.academicjournals.org)
- **ACI Structural Journal**, since 2011 (<https://www.concrete.org/publications/acistructuraljournal.aspx>)
- **Malaysian Journal of Civil Engineering** (<https://mjce.utm.my>)

(E) MEMBERSHIP OF JOURNAL EDITORIAL BOARDS

- e-Journal of Civil Engineering. Member, Editorial Board, Faculty of Engineering, UNIMAS ISSN No. 1985-3874 (08/2009 to 2011).
- Journal of Civil and Earthquake Engineering. Member, Editorial Board, CUET Bangladesh, (2008-2011)

(F) SERVICE TO THE COMMUNITY

- **Working as Vice-President of Bangladesh Cultural Association of Kamloops.**
 - Feb. 2016 & April 2017: Organized & celebrated 'International Mother Language' Day and 'Bengali New year Celebration' to promote cultural diversity with local & aboriginal community.
 - Feb. 2017: Successfully organized and celebrated international Mother Language day in collaboration of Aboriginal department of TRU.
 - Feb. 2018: Organized **Forum and Cultural program** to celebrate 'International Mother Language Day' in collaboration with Aboriginal department of TRU.

- **Member, South Central Branch of Engineers & Geoscientist of BC (EGBC)**
 - Participated and worked as volunteer in various program organized by south central branch of EGBC.

(G) OTHER SERVICES NOT LISTED ABOVE

Membership of Conference Committees

- Member of the Technical committee, Evaluation, Reviewer and **Session Chair**, *2nd Engineering Conference (Encon 2008)*, UNIMAS, Sarawak, Malaysia
- Member of Reviewer Panel, Material Science and Technology for Sustainable Development: Bangladesh Perspective, CUET Chittagong Bangladesh, March 2010

Invited Presentations at Scientific Meetings/Workshops

- **BCNET** (Canada's Premier Higher Education Information Technology Conference) 2017
- Facilitator, CURTIN CAMP 2006 “*Cracking Codes of Learning*, (21-23 July 2006)
- Speaker, EARTHQUAKE RISK IN BANGLADESH: PROBABLE DAMAGE AND REMEDY, Chittagong, Bangladesh, 2003

Other University Services

- Structural Engineering Laboratory Coordinator, 2008-2010; University Malaysia Sarawak.
- Provost, Shahid Mohammad Shah Hall, CUET (2002- 2003)
- Provost (In-charge), Ladies Hall, CUET (1993-1995).
- Assistant Provost, Shahid Tarek Huda Hall, CUET (1992- 1993).
- Member-Secretary, Bureau of Research Testing & Consultancy (BRTC) (2000-2003).
- Member, Tender Evaluation Committee, CUET, (2002- 2005).
- Chairman, Transport Committee, CUET (February-sept. 2006).

Service to Profession/Industry (In last academic appointment)

- University Malaysia Sarawak, Malaysia, Facilitator UScore training ‘**Concrete Technology**’ at UNIMAS, August-September, 2009.
- University Malaysia Sarawak, Malaysia, Facilitator UScore training ‘**Material Testing**’ at UNIMAS, August-September, 2009.

Public Service

Member Secretary, Earthquake Damages evaluation Taskforce committee, Institute of Engineers, Chittagong (07/2003-12/2003)

Participation in Academic Accreditation

Program : Bachelor of Engineering with Honours (Civil Engineering),
Role : Self -assessment report writer, participator and OBE member,
Institution : University Malaysia Sarawak and Curtin University of Technology
Accredited by: Engineering Accreditation council, Board of Engineers Malaysia
Period : July 2007 - Feb 2011 and 2006-2007

6. RESEARCH / SCHOLARLY CONTRIBUTIONS

(A) BRIEF OVERVIEW:

I have achieved significant research experience in the broader field of Civil & Structural Engineering throughout my teaching and research career. From my research work, I have published a good number of quality articles in some recognized international journals and conference proceedings. Also, from the experience gained throughout the years, I have proven ability to attract external research funds to conduct the research activities.

HIGHLIGHTS:

- Published fifty (50) articles in recognized journals and conference proceedings
- Presented/published four (04) articles since joining TRU and few others will be submitted to peer-reviewed journal soon
- Served four (04) professional journals as reviewer
- Affiliated with four (04) Professional Associations
- Awarded three (03) research funds
- Experienced in Undergraduate & Post-graduate thesis supervision

- Worked as external examiner for Undergraduate & Post-graduate thesis
- Submitted Four (04) Technical Research Reports

(B) RESEARCH INTERESTS:

- Innovative Composite structures, Light-Weight and Thin walled structures
- Repair and strengthening of Reinforced and Prestressed Concrete structures with FRP (Fibre Reinforced Polymer) materials.
- Seismic retrofitting of isolated bridge, Seismic design and construction, Numerical modelling of structural problems.
- Full-scale theoretical & experimental investigation of structures.
- Use of industrial waste materials in concrete, smart material and sustainable development.
- Innovative teaching & learning methods.

(C) RESEARCH GRANTS:

Some of the grants that I received earlier are as follows:

- **Research Grant, as Principle Investigator:** A Study on the long-term deflection and debonding behaviour of reinforced concrete beams strengthened with FRP sheets, Fundamental Research Grant Scheme from **Ministry of Higher Education Malaysia**, 2008-2010, **RM 91,200**
- **Research Grant, as Co-researcher**, Finite Difference Analysis for Micro-electro Mechanical System (MEMS) Structure, Dana Penyelidikan Khas UNIMAS' grant, 2010-2011, **RM 6685**
- **Research Grant, as Principle Investigator**, Experimental and Numerical study on Long-term and Debonding behaviour of FRP sheet strengthened beam, **Curtin University of Technology Research Fund, 2007, RM 10,000**
- At TRU, I have contributed in preparing the proposal for SIF (Strategic Investment Fund) Grant through aboriginal department of TRU. It has received a grant of C\$12,000
- I have contributed significantly in preparing two proposals for NSERC- Engage grants for my host professor at University of Sherbrooke, Canada.

(D) RESEARCH STUDENT SUPERVISION:

- Supervised many undergraduate students in research and independent study projects (final year projects) in four (04) different universities. (Please see the lists below)

- Supervised Masters and PhD students. In my appointment at University Malaysia Sarawak, one Master's student has successfully completed his Master degree under my supervision and I have worked as co-supervisor for one PhD student.

i) AT THOMPSON RIVERS UNIVERSITY, KAMLOOPS, BC, CANADA 2015-2019

In my four (04) years of service as lecturer at TRU, I have supervised the following students for their final year project/ research report.

Academic Year 2015-16

No.	Student Name	Type	Project Title	Supervision
1	Gabor Ohm	Undergraduate Research	Autoclaved Aerated Concrete Wall system	100%
2	Brandon Deol	Undergraduate Research	Net zero Housing: A study on Energy saving	100%
3	Brian Robinson	Undergraduate Research	Sound system enhancement of a theatre building	100%
4	Azia Mears	Undergraduate Research	Wood frame construction Versus concrete construction: A critical review	100%

Academic Year 2016-17

No.	Student Name	Type	Project Title	Supervision
1	Cody Bird	Undergraduate Research	Sustainable Design and Development of Country-Land Park area, Kamloops	100%
2	Devin Smithies	Undergraduate Research	Cost Effective Recycled Material Exterior Wall Construction	100%
3	Jacqueline Costanzo	Undergraduate Research	Design of co-housing concepts with medical clinic and other amenities	100%
4	Sierra Siwek	Undergraduate Research	Self-Healing Concrete	100%
5	Helmut Schoenfeld	Undergraduate Research	Energy Modeling of Profiled Steel sheet Dry Board system	100%
6	Cody Dennhardt	Undergraduate Research	Development of Computer Program for use in Fluid Mechanics Course	With Computer Sci. 60%

Academic Year 2017-18

No.	Student Name	Type	Project Title	Supervision
1	Evan Chorlton	Undergraduate Research	Modular Construction of Building wall system	100%
2	Keith Leung	Undergraduate Research	Road Intersection Redesign with Roundabout	100%
3	Saylor Gray	Undergraduate Research	Air placed concrete as an alternative of traditional concrete construction	100%
4	Nathan Masi	Undergraduate Research	Earthquake resistance of TRU Conference & Residence Building	100%
5	Evan Martin	Undergraduate Research	Smart Home technology	100%
6	Anna Young	Undergraduate Research	Optimizing Heat Transfer through Window in Building System	100%

Academic Year 2018-19

No.	Student Name	Type	Project Title	Supervision
1	Noah Foufoulas	Undergraduate Research	Self-healing concrete	100%
2	Braeden Stanyer	Undergraduate Research	Site plan Development of Westsyde Elementary	100%
3	Angus Tsang	Undergraduate Research	Feasibility of Green Roof in mitigating Urban heat Island: A case study	100%
4	Daniel Costanzo	Undergraduate Research	Design of a homeless shelter at Abbotsford, BC	100%

II) AT UNIVERSITY SARAWAK MALAYSIA (2007-2011) AND AT OTHER UNIVERSITIES

At Undergraduate Level:

I have supervised **more than fifty (50) Undergraduate theses (final year projects)** during the time period 1990-1994 and 2000-2007 at Chittagong University of Engineering & Technology and Curtin University of Technology Malaysia.

During my last academic appointment as Associate Professor at University Malaysia Sarawak, I have supervised the following **undergraduate** final year projects:

Academic Year 2010-2011:

No.	Student Name	Type	Project Title	Supervision
1	Liew Yu Voon	Undergraduate Thesis	Long-term deflection and cracking performances of palm shell aggregate concrete beam subjected to transverse loading	100%
2	Khairul Anwar	Undergraduate Thesis	Creep and shrinkage deformation of FRP sheet strengthened reinforced concrete beam	100%
3	Ghazali bin Ahmad	Undergraduate Thesis	Flexural and vibration performances of Profiled steel sheet dry board panel.	100%
4	Tey Yong Soon	Undergraduate Thesis	Influence of slag waste fine aggregates on fresh and hardened characteristic of mortar	100%

Academic Year 2009-2010:

No.	Student Name	Type	Project Title	Supervision
1	Muhamad IrwanAffendi	Undergraduate Thesis	Flexural and Long-term Behavior of Reinforced Concrete Beam	100%
2	James Bong Hin Lee	Undergraduate Thesis	Study the Structural Behavior of Ferrocement Beam	100%
3	Ngoh Fei Phing	Undergraduate Thesis	Behaviour of Profiled steel sheet Dry Board Wall Panel	100%
4		Undergraduate Thesis	Out-of plane behaviour of Profiled Steel sheet Dry Board square Panel	100%
5		Undergraduate Thesis	Flexural and Time dependent behaviour of Palm shell aggregate concrete beam	100%

Academic Year 2008-2009:

No.	Student Name	Type	Project Title	Supervision
1	Terence Leong Shuh Onn	Undergraduate Thesis	A study on the Profiled steel sheet Dry board Panel system	100%
2	Teoh Chee Hui	Undergraduate Thesis	Study on the Short and Long-term Performances of Reinforced Concrete Beams Strengthened with Externally bonded FRP Sheets	100%

At Post-Graduate Level:

No.	Student Name	Type	Project Title	Supervision
1	Habibur Rahman Sobuz	Masters in Civil Engineering	Flexural and Time-dependent performance of CFRF strengthened reinforced concrete beam.	100% (2011)
2	Md. Nurul Haque	PhD Thesis	Performance of lightweight composite floor system subjected to human induced vibration	60% (acted as Co- supervisor)

In my appointment as Research Professional at **University of Sherbrooke, Canada**, I assisted the project leader in supervising one (1) PhD and two (2) Master students and few international interns.

(E) PARTICIPATION IN THESIS AND ORAL EXAMINATION COMMITTEES

Level and Number of Examinations in last 10 years

- PhD Students : 02
- Master Students : 04

(F) PRESENTED PAPERS SINCE JOINING TRU (2015-2019)

- I.** Impact of software usage on Fundamental Engineering courses. WCCCE 2016-The 21st Western Canadian Conference on Computing Education: Kamloops, **May 6-7, 2016**
- II.** Web based problem solving system for the learner motivation of Engineering students; (**Oral Presentation**), SFU Harbour Centre, Vancouver; **BCNET Conference, April 25-27, 2017.**
- III.** Dynamic Analysis of Profiled Steel Sheet Dry Board Composite Floor Panel Subjected to Human-induced Forces. **CSCE 2018 Annual Conference**, Fredericton, **June 13-16, 2018**

(G) SEMINARS, WORKSHOPS OR PROFESSIONAL MEETINGS (2015-2019)

No.	Seminar/ workshop	Role	Date and place	Attended Sessions	Remarks/Outcomes
1	Wood Design & Construction Solutions Conference	Participant	Vancouver Convention Centre, Vancouver, (Feb.28-Mar.01, 2017)	a) Design Adventures with Glue and Nail laminated Panels. b) Design Inspiration: A showcase of Wood Design Award Winners from 2015. c) Multi-Functional Panels. d) Humane Modernism: The Arch. of Bohlin Cywinski Jackson.	Earned Continuing Education hours: One (1) learning hour per session. Please see Certificate in 'G_Other documents' folder
2	FPSE AGM at Victoria	Participant as steward	Victoria, BC 15-18 May, 2017	All events of AGM	Learned about the University faculty unions. Got better understanding how TRUFA is working and maintaining liaison with its parent bargaining organization
3	Wood Design Luncheon Conference	Participant	Kelowna, BC Nov. 22, 2017	a) Carbon 12: A CLT case study in Design and Construction b) Timber Pre-Fabrication of the Brock Commons Building c) Ronald McDonald House: A case study on Hybrid Tilt-Up Construction.	Interacted with researchers, shared and exchanged research ideas; attended the exhibitions. Identified few future potential research areas based on local available facilities. Please see the Certificates (Folder G)
4	2018 Wood Design Luncheon Conference	Participant	Kelowna ,BC November 20 th , 2018	a) British Columbia Building Code 2018; b) Tall Building s through the site –specific Regulation (SSR) Process c) Platforms for life, Generative Housing system Technology.	Building Code Revisions, Prefabrication and Modular Construction Certificate Received
5	2019 National Workshop on Wood Education	Participant & Contributor	Westin Hotel, Ottawa February 8 th and 9 th , 2019	a) State of wood education, engineering focus b) Labour market studies c) BIM trends in wood construction d) Student Wood Design Competition(s)	Advance wood education workshop; Review of New Wood Design Manual
6	Lancaster's 2019 Human Rights and Accommodation conference and workshops	Participant	Sheraton Centre Hotel, Toronto April 3-4, 2019	Keynote: Corporate Immunity for Human Rights Abuses Abroad-What can be done about it? Attended all the panel discussions	Learned about various policy and procedures related to Human rights and accommodation cases

(H) IN-HOUSE SEMINAR/WORKSHOP/CONFERENCES (2015-2019)

NO.	Seminar/workshop	Role	Date and place	Attended Sessions	Remarks/Outcomes
1	15th Annual Teaching Practices Colloquium	Registered Participants	TRU Feb. 19, 2019	All Sessions of "Adventures in Teaching"	Professional Development, Interaction with colleagues, Learned various Teaching & Learning methods , and research outcomes.
2	Teaching Portfolio workshop		TRU June 2017, 2018 & 2019	All sessions	Learned how to prepare and organize the Teaching Portfolio for tenured and promotion.
3	In service day Program	Participator	Feb. 22, 2017	Full Day Program	Learned how sustainable thinking can directly improve the life and work
4	Information Security Awareness Essentials I	Participator	TRU July 2016	Online session	Certificate of Attendance
5	"Timed Talks' - Wednesday,	Participator	February 13, 2019, 3:30pm - 5:00pm	Date : Wednesday, February 13, 2019 Time : 3:30pm - 5:00pm Location: OL 340 Campus: Kamloops Campus	This workshop is intended for faculty, staff, students, and administrators... anyone who has to speak in front of a group in a limited amount of time. This could include a presentation at an academic conference, sharing some key information at a meeting, or any other time when you're asked to speak "...but please be brief". This workshop will offer tips and strategies for planning your talk and for managing yourself as you present. You will get an opportunity to practice in a non-threatening exercise.

(I) OTHER PROFESSIONAL KNOWLEDGE: (TRAINING COURSES AND WORKSHOPS ATTENDED)

1. Participated in “UNIMAS online learning system, Morpheus Basic and Advanced Workshops. Organized by Center for applied learning and multimedia. 23 May 2008 FCSIT computer Laboratory, UNIMAS
2. Workshop On “*Research Grant Proposal and Postgraduate Supervision*”, Curtin University of Technology, 29-30 August 2006, Miri, Sarawak
3. Participated Workshop on “*Research Writing*”, Curtin University of Technology, 18-22 July, 2005, Miri, Sarawak.
4. Participated in Training Course on “*Technical Report Writing*”, Engineering Staff College, 25-27 February 2003, Dhaka, Bangladesh.
5. Participated in Workshop on “*Environment Protection and Pollution Prevention Issues and initiatives*” Organized by Bangladesh University of Engineering and Technology (BUET) and North Carolina A&T State University (NCATSU) 12-14 March 2002, BUET, Dhaka, Bangladesh.
6. Participated in “*Orientation Workshop on Participatory Approaches for Community Development*” International Training Network (ITN), Bangladesh- : Centre for water Supply and waste Management, 12-13 May 2001, Bangladesh.
7. **Post-graduate training on ‘Aseismic design and construction’ Institute of Earthquake Engineering & Engineering Seismology, University of St. Cyril and Methodius, 21 Sept.- 11 Dec. 2001, Skopje, Macedonia.**
8. **Training on ‘Simulation Models in Engineering and Technology’, Indian Institute of Technology (IIT), 12-23 March, 2001, Madras, India.**
9. Participated in “*Orientation Workshop on Gender*” International Training Network: Centre for water Supply and waste Management, 07-08 October 2000, BUET Dhaka.
10. Training on ‘*Low Cost Housing Technology*’. Building Research Institute, 4-9, December; 1993, Dhaka, Bangladesh.

(J) List of Publications @ Ehsan Ahmed:

Journal Publications:

1. **E. Ahmed**, F. Legeron, and M. Oualha (2015). Steel fiber as replacement of minimum shear reinforcement for one-way thick bridge slab; *Journal of Construction and Building Materials*; Elsevier Science (UK), **78**, 303-314.
2. F. Legeron, E. Desjardins, and **E. Ahmed** (2014). Fuse performance on bracing of concentrically steel braced frames under cyclic loading; *Journal of Constructional Steel Research*, Elsevier Science (UK); Vol.95; 242–255.
3. **E. Ahmed** and W.H. Badaruzzaman (2013). Vibration Performance of Profiled Steel Sheet Dry Board Composite Floor Panel; *KSCE Journal of Civil Engineering*; Korea, 17(1):133-138.
4. H.R. Sobuz, **E. Ahmed**, N.M. Sutan, N.M. Sadiqul H, M. A. Uddin, M.J. Uddin (2012). Bending and time-dependent responses of RC beams strengthened with bonded carbon fiber composite laminates; *Construction and Building Materials*, Elsevier Science, **UK**, **29**, 597-611.
5. **E. Ahmed** and W.H. Badaruzzamn (2011). Evaluation of Natural Frequency and Damping of Profiled Steel Sheet Dry Board Composite Panel. *Journal of Engineering Science and Technology (JESTEC)*, School of Engineering, Taylor’s University, Vol.6, 695-708.
6. H.R. Sobuz, **E. Ahmed** (2011). Structural strengthening of RC beams externally bonded with different CFRP laminates configurations. *Journal of Civil Engineering (IEB)*, 39 (1) 33-47.
7. H.R Sobuz, **E. Ahmed** and N.M. Sutan (2011). Deflection and cracking behavior of RC beams externally reinforced with carbon fiber laminates. *Journal of Reinforced Plastics and Composites*, November; 30 (21): 1807-1818.
8. **E. Ahmed** and H.R. Sobuz (2011). Flexural and Time-Dependent Performance of Palm Shell Aggregate Concrete Beam. *KSCE Journal of Civil Engineering*, Korean Society of Civil Engineers, Springer Publications, 15(5): 859-865.
9. MF Rosli, A Rashidi, E. Ahmed (2011). The Effect of Reinforcement, Expanded Polystyrene (EPS) and Fly Ash On The Strength of Foam Concrete. *Journal of Civil Engineering, Science and Technology*, 2 (2), 1-7.
10. E. Ahmed and H.R. Sobuz (2011). Immediate and Long-Term Deflection of Carbon Fiber Reinforced Polymer (CFRP) Concrete Beams. *Key Engineering Materials* Vols. 471-472 pp 73-78.
11. HR Sobuz, E Ahmed (2011). Flexural performance of RC beams strengthened with different reinforcement ratios of CFRP laminates *Key Engineering Materials* 471, 79-84.
12. **E. Ahmed** and H.R. Sobuz (2011). Experimental Investigation on Long-term Behavior of CFRP Strengthened RC Beams under Sustained Loads. *Journal of Structural Engineering and Mechanics*, Techno Press, Vol. 40 (1): 105-120.

13. HR Sobuz , E. Ahmed, N.M.S. Hasan, M.S. Islam (2010). Study on Removal of Brick Clay Salinity in the Manufacture of Conventional Structural Bricks. *International Journal of Civil and Structural Engineering*, Integrated Publishing services, Vol. 1(3): 466-476.
14. E. Ahmed, H.R. Sobuz and H.L.J Bong (2010). Flexural and Cracking Performance of Reinforced Concrete beam Strengthened with Ferrocement Laminates. *ASEAN Journal on Science & Technology for Development*. November, Vol. 27 (2): 51-60.
15. A.R. Buiyan and E. Ahmed (2007). Analytical Expression for Evaluating Stress-Deformation Response of Rubber layers under Combined Action of Compression and Shear. *Journal of Construction and Building Materials*. Elsevier Science UK, Vol. 21(9), 1860-1868.
16. H. Ali, M.J Alam and E. Ahmed (2006). Performance of Hydraulic Jump on various glacises. *Technical Journal of River Research institute (RRI)*, Bangladesh, 10(1),15-24.
17. Z. Wu, H Yuan, T Asakura, H Yoshizawa, A Kobayashi, Y Kojima and E Ahmed (2005). Peeling behavior & spalling resistance of bonded bi-directional fiber reinforced polymer sheets. *Journal of composites for Construction*, ASCE, USA 9(3), 214-226.
18. Zhishen Wu, Hong Y, Kojima and E. Ahmed (2005). Experimental & analytical studies on peeling and spalling resistance of uni-directional FRP sheets bonded to concrete. *Journal of composite science & technology*, Elsevier Science, UK, Vol. 65(7), 1088-1097.
19. E. Ahmed and W.H. Badaruzzaman (2005). Finite element prediction on the structural performance of profiled steel sheet dry board structural composite system proposed as a disaster relief shelter. *Journal of Construction and Building Materials*, Elsevier Science, UK, 19(4), pp. 285-295.
20. E. Ahmed and W.H. Badaruzzaman (2003). Finite Element Prediction of the Behavior of Profiled Steel Sheet Dry Board Folded Plate Structures – An Improved Model. *International Journal of Engineering*, Materials and Energy Research Center, Iran, Transaction B: Applications, 16(1), 21-32.
21. E. Ahmed and W.H. Badaruzzaman (2003). Equivalent Elastic Analysis of Profiled Metal Decking using Finite Element Method. *International Journal of Steel Structures*, South Korea, 3(1), 9-17.
22. W.H. Badaruzzaman, M.F.M. Zain, A.M. Akhand, and E. Ahmed (2003). Dry Board as Load Bearing Element in the Profiled Steel Sheet Dry Board Floor Panel System - Structural Performance and Applications. *Journal of Construction and Building Materials*, Elsevier Science, UK, 17(4), 289-297.
23. E.Ahmed, W.H. Wan Badaruzzaman, and H.D. Wright (2002). Two-way bending behaviour of profiled steel sheet dry board composite panel system, *Thin-Walled Structures*, Elsevier Science, UK, 40(11), 971-990.
24. E.Ahmed, W.H. Badaruzzaman, and H.D. Wright (2000). Experimental and Finite Element Study of Profiled Steel Sheet Dry Board Folded Plate Structures. *Thin-Walled Structures*, Elsevier Science, UK, 38(2), 125-143.

25. W.H. Badaruzzaman, E.Ahmed, and A.R. Khalim (1996). Out-of Plane Bending Stiffness Along the Major Axis of Profiled Steel Sheet Dry Board Composite Panels. *Jurnal Kejuruteraan* 8, UKM, Malaysia, 79-95.
26. E.Ahmed, W.H. Wan Badaruzzaman, and A.R. Khalim (1996). A Simplified Elastic Composite Floor Section Analysis with Incomplete Interaction. *Jurnal Kejuruteraan* 8, UKM, Malaysia, 67-78.

Conference Papers:

1. Ehsan Ahmed (2018). Dynamic Analysis of PSSDB Floor panel subjected to Human-induced forces. *CSCE (Canadian Society of Civil Engineers) Annual Conference, 6th International structural speciality Conference, Fredericton, June 13-16.*
2. Ehsan Ahmed (2017). Web based problem solving system for the learner motivation of Engineering students; Oral Presentation, SFU Harbour Centre, Vancouver; *BCNET Conference, April 25-27.*
3. Ehsan Ahmed and Musfiq Rahman (2016). Impact of software usage on fundamental Engineering courses. *WCCCE 2016-The 21st Western Canadian Conference on Computing Education: May 6-7.*
4. Mohamed Ouahla, Frédéric Légeron, Marc Demers, Ehsan Ahmed (2012). Structural Deep Slab Bridge with Fiber Reinforced Concrete. *3rd International Structural Specialty Conference, Edmonton, Alberta, June 6-9.*
5. E. Desjardins, F. Legeron & E. Ahmed (2012). Performances of Ductile Fuses in Reducing Seismic Demand on Connections of Concentrically Steel Braced Frames. *15th World Conference on Earthquake Engineering, Lisbon, Portugal, September 24-28.*
6. Habibur Rahman Sobuz, Ehsan Ahmed (2010). Time-Dependent Deflection and Debonding Behavior of Reinforced Concrete Beam Strengthened with FRP Laminates. *Proceedings of the 3rd Engineering Conference (EnCon 2010), Kuching, Sarawak, Malaysia April 14-16.*
7. Ehsan Ahmed and Habibur Rahman Sobuz, Liew Yu Voon (2010). Performance of Oil Palm Shell (OPS) as a Replacement Coarse Material in the Structural Concrete Production, *Proceedings of the 3rd Engineering Conference (EnCon2010), Kuching, Sarawak, Malaysia April 14-16.*
8. Ehsan Ahmed, Habibur Rahman Sobuz and Liew Yu Voon (2010). Deflection of Oil Palm Shell (OPS) aggregate concrete beams under sustained loading. *World Engineering Congress 2010, Conference on Engineering and Technology Education 2nd – 5th August, Kuching, Sarawak, Malaysia.*
9. Ehsan Ahmed, Ghazali Bin Ahmad, Wan Hamidon Wan Badaruzzaman and Sinin Hamdan (2010). Natural frequency analysis of Profiled Steel Sheet Dry Board Composite Panel. *World Engineering Congress 2010, Conference on Engineering and Technology Education 2nd – 5th August, Kuching, Sarawak, Malaysia.*

10. Habibur Rahman Sobuz and Ehsan Ahmed (2010). An Analytical Investigation on Deflection Performance of RC Beams Strengthened with CFRP Sheets, *World Engineering Congress 2010*, Conference on Engineering and Technology Education, Kuching, Sarawak, Malaysia.
11. Ehsan Ahmed, Habibur Rahman Sobuz and W.H. Wan Badaruzzaman (2009). Flexural and Long-term Deflection Performance of Palm Shell Aggregate Concrete Beams. International Conference on Building Science and Engineering (ICON-BSE 2009); The Puteri Pacific Hotel Johor Bahru; Faculty of Civil and Environmental Engineering, University Tun Hussein Onn, Malaysia (UTHM), December 14–15.
12. Ehsan Ahmed, Bong Hin Lee, and Habibur Rahman Sobuz. (2009). An Experimental Study on the Performance of Reinforced Concrete Beam Strengthened with Ferrocement Laminates. International Conference on Building Science and Engineering (ICON-BSE 2009); at The Puteri Pacific Hotel Johor Bahru; Faculty of Civil and Environmental Engineering, University Tun Hussein Onn, Malaysia (UTHM), December 14–15.
13. Ehsan Ahmed (2008) A study on the Long-term deflection of externally bonded FRP sheet strengthened beams. International seminar on Civil and infrastructure Engineering,; Faculty of Engineering, Universiti Teknologi Mara Malaysia; Shah Alam, Selangor, Malaysia, June 11-12.
14. Abu Saleh Ahmed, Ehsan Ahmed, Mahbub Hasan and Sinin Hamdan (2007). Prospects of Biogas Production Utilizing the Sewage Waste Water. [1st Engineering Conference in Energy and Environment \(EnCon 2007\)](#) Faculty of Engineering, Universiti Malaysia Sarawak. Crowne Plaza Riverside Hotel, Kuching, Sarawak, Malaysia. December 27th - 28th.
15. Ehsan Ahmed and Ahmed Lebbe Mohamed Mauroof (2007) Using Software in the Teaching of Engineering Courses: Benefits and Pitfalls. Academic Quality symposium Faculty of Engineering, Unimas. 5th December.
16. Ehsan Ahmed and Wan Hamidon Wan Badaruzzaman (2007). Profiled Steel Sheet Dry Board Folded Plate Structure as an Emergency Shelter for a Disaster Relief Situation. 1st International Conference on Modern Design, Construction and Maintenance of Structures, Hanoi, Vietnam. December 10-11.
17. W.H. Wan Badaruzzaman, H. Awang, and E. Ahmed, (2006). Development of Folded Plate Profiled Steel Sheet Dry Board (PSSDB) Roofing System. Proceeding of the 6th Asia-Pacific Structural Engineering & Construction Conference APSEC 2006, Kuala Lumpur.
18. E. Ahmed and W.H. Wan Badaruzzaman (2006). Bondek II/ Cemboard Composite Floor Panel: Development, Structural Performances and Applications. Proceedings of the Tenth East Asia-Pacific on Structural Engineering and Construction (EASEC-10), Bangkok, Thailand, pp. 591 – 596.
19. A. Rahman Bhuiyan, Ehsan Ahmed and M. Rafiqul Islam (2005). FE stress analysis of laminated rubber bearings under compression and shear. *Int. Symposium on Innovation & Sustainability of Structures in Civil Engineering*. Southeast University, Nanjing, China 20-22, Nov. 2005.

20. H. M. Diab, Zhishen Wu, Ehsan Ahmed (2005). Analytical study on long-term deflections of beams strengthened by prestressed FRP sheets. *Int. Symposium on Innovation & Sustainability of Structures in Civil Engineering*. Southeast University, Nanjing, China.
21. E. Ahmed, W.H. Wan Badaruzzaman (2002). Finite Element Analysis of Dry Board Panel Reinforced by Profiled Steel Sheet Idealized as an Orthotropic Plate. *Proceeding of the 5th International Congress Advances in Civil Engineering ACE2002*, Istanbul, pp. 705-714.
22. E. Ahmed, W.H. Wan Badaruzzaman, A.R. Khalim, and, K.A. Taib (2001). Analysis and Experiments of a Composite Folded Plate Roof Structures. *Proceeding of the International Conference on Construction Technology CONTEC 2001*, Kota Kinabalu, pp. 39-50.
23. E. Ahmed, W.H. Badaruzzaman & MJ Alam, H. Ali (2001). Finite element elastic analysis of Profiled steel sheet dry board folded plate structure. *Proceeding of the First Annual Paper meet and Intⁿ. Conference on Civil Engg.*, Bangladesh. Nov 3.
24. M.J Alam, H. Ali, E. Ahmed (2001). Repair and strengthening of the existing RC structural elements for future earthquake. *Proceeding of the First Annual Paper meet and Intⁿ. Conference on Civil Engg.*, Bangladesh. Nov 3.
25. M.J Alam, H. Ali, E. Ahmed (2001). On seismic structural planning of RC buildings. *Proceeding of the First Annual Paper meet and International Conference on Civil Engg.* Bangladesh. Nov. 03.
26. E. Ahmed, W.H. Wan Badaruzzaman, and H.D. Wright (2000). Finite Element Elastic Analysis of Profiled Steel Sheeting Dry Board Single Span Composite Panels, *Proceeding of the 6th ASCCS International Conference Steel-Concrete Composite Structures*, Los Angeles, pp. 1083-1090.
27. W.H. Wan Badaruzzaman, A.M. Akhand, E. Ahmed, and S.A. Osman (1999). Bondek II/Cemboard Composite Panel System. *Proceeding of the World Engineering Congress & Exhibition WEC '99*, Shah Alam, Malaysia, pp.31-35.
28. W.H. Wan Badaruzzaman, A.M. Akhand, K. M. Yusof, N.A. Mohd Kasby, E. Ahmed, S.A. Osman, A. Ismail, and M.F.M. Zain (1999). Fire Resistance Performance of Bondek II/ Cemboard Composite Flooring Panel (BCCFP) System, *Proceeding of the World Engineering Congress & Exhibition WEC '99*, Shah Alam, Malaysia pp. 73-80.
29. W.H. Wan Badaruzzaman, E. Ahmed, S.A. Osman, and A. M. Akhand (1999). Dry Boards in a Load bearing Structural Building Panel System. *Proceeding of the World Engineering Congress & Exhibition WEC '99*, Shah Alam, Malaysia, pp. 25-30.
30. W.H. Wan Badaruzzaman, E. Ahmed, and A.M. Akhand (1998). Application of Dry Boards in an Innovative Composite Panel System. *pembentangan di 'Symposium on Latest Technologies Development on Mineral Bonded Board'*, anjuran FRIM, Kepong, Malaysia.
31. W.H. Wan Badaruzzaman, E. Ahmed, and A.R. Khalim (1996). Behaviour of Profiled Steel Sheet Dry Board System. *Proceeding of the CIB International Conference on Construction Modernization and Education*, Beijing, pp. 1-6 (CD-ROM).
32. E. Ahmed, W.H. Wan Badaruzzaman, and A.R. Khalim (1996). Composite Partial Interaction of Profiled Steel Sheeting Dry Board Floor Subject to Transverse Loading.

Proceeding of the CIB International Conference on Construction Modernization and Education, Beijing, pp. 1-6 (CD-ROM).

(K) PUBLICATIONS/CITATIONS DATA (FROM GOOGLE SCHOLAR)

