

Curriculum Vitae

MOST. SHUBORNA KHATUN

Address: Boalia, Dingeda-7200, Chuadanga Sadar,
Chuadanga, Bangladesh

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Career Objective:

Looking for an opportunity that will allow me to learn, innovate, and widen my vision in the leading areas of science and technology, a secure career position that is interesting, challenging and strengthen my skills to work with full confidence in achieving the ultimate goals and objectives of any institution and thus to build up myself as a successful woman, teacher and researcher through pro-active and responsive work.

Academic Qualification:

Degree	University/College/School	Specialization	Year of Passing	Performance
				CGPA/GPA
M.Sc. Engineering	Bangladesh University of Engineering and Technology (BUET)	Civil and Environmental	Ongoing	3.83 (Theory Completed)
B.Sc. Engineering	Pabna University of Science and Technology (PUST)	Civil Engineering (Structural)	2022	3.90 (out of 4.0) (1st position)
H.S.C	Chuadanga Government College	Science	2014	5.00 (out of 5.0)
S.S.C	Hijalgari Secondary School	Science	2012	5.00 (out of 5.0)

Research Interest

Air Pollution and Health Risk Assessment, Groundwater Pollution & Recharge, Water Resources Engineering with GIS, Urban Air Pollution & Climate Change, Structural Materials, Sustainable concrete

Technical Skill

- SketchUp Pro 2022, SAFE 20, AutoCAD-(2D & 3D), ETABS (2016), ABAQUS (2016), Origin Pro 8 and GIS 10.8

Personal Skill

Disciplined, Patience, Leadership, Hard-working, Sociable, Flexibility, Communicative, Punctual

Awards & Achievements

- “Monbukagakusho (MEXT) Scholarship -2023” from the Japanese Government for admission to Hiroshima University, Japan
- “Award for excellence” (**Faculty 1st**) – 5th June 2022 from honorable vice-chancellor, PUST
- “Academic Achievement Award – 2019” (**1st position**) from Department of Civil Engineering, PUST
- “Academic Achievement Award – 2018” (**1st position**) from Department of Civil Engineering, PUST

- “Academic Achievement Award – 2017” (**1st position**) from Department of Civil Engineering, PUST
- “Academic Achievement Award – 2016” (**1st position**) from Department of Civil Engineering, PUST
- Jessore Board Merit Scholarship, Chuadanga Government College, 2014.
- “Academic achievement award – 2013” (**1st position**) from Chuadanga Government College

Experience

- Lecturer, Department of Civil Engineering, Prime University (16.08.2022-Present).
- Program Coordinator, Department of Civil Engineering, Prime University (01.07.2025-Present).

Academic Project (Undergraduate Thesis)

- **Effect of water level in a seismically excited concrete gravity dam considering Fluid-Foundation-Dam-Interaction** (Supervised by Dr. Tahmina Tasmin Nahar, Associate Professor, Department of Civil Engineering, PUST)

Publications

Journals:

1. Most. Shuborna Khatun¹, Md. Shah Jamal², Shahran Hosen Sany³, and Md. Rashidul Hasan⁴, **Air Quality Dynamics in Bangladesh and Its Cross-Border Impact**. Journal of Environmental Engineering, (ASCE Q2, Impact Factor: 1.8), Volume 151, Issue 9, July 10, 2025. <https://doi.org/10.1061/JOEEDU.EEENG-8141>
2. Most. Shuborna Khatun¹, Md. Shah Jamal², & Md. Saiful Islam. (2025). Performance of concrete incorporated with Calamus tenuis cane fiber under chloride and wet-dry cycles conditions. Innovative Infrastructure Solutions, 10(11), 516. <https://doi.org/10.1007/s41062-025-02354-7>
3. Most. Shuborna Khatun¹, Md. Shah Jamal² and Nabila Islam Shorna³ (2024), **Breathing Through Time: 9 Years Apart - Assessing and Comparing Air Quality in Khulna, Bangladesh: 2013 to 2021**. International Journal of Engineering Research Technology (IJERT). ISSN: 2278-0181, Vol. 13 Issue 5, May 2024, <https://doi.org/10.5281/zenodo.18139417>
4. Most. Shuborna Khatun¹. **Development of Concrete Strength Models Incorporated with Recycled Aggregates**, Prime University Journal / volume-16/ Number-2 / July - December 2022, ISSN: 1995-5332. <https://www.researchgate.net/publication/384596373>
5. Nabila Islam Shorna¹, Most. Shuborna Khatun², Fahmida Akter³ and Md. Mahamudul Hasan⁴ (2023), **Construction Management in Bangladesh: A Case Study of Low-Rise Buildings of Rangpur City Corporation**. International Journal of Science, Engineering and Technology (IJSET). ISSN (Online): 2348-4098, Volume 11, Issue 04_492. <https://www.researchgate.net/publication/380663555>

Conference Papers:

1. Md. Shah Jamal., Most. Shuborna Khatun*, Md. Rezoan Badsha & Nabila Islam Shorna (2025, November). **Mechanical and Durability Aspects of Abaca Fiber-Reinforced Concrete with Fly Ash**. In 8th International Conference on Engineering Research, Innovation, and Education 2025 (ICERIE 2025) (pp. 60-68). Advances in Engineering Research (AER) Proceedings Series by Atlantis Press (Part of Springer Nature). https://doi.org/10.2991/978-94-6463-884-4_8

2. Most. Shuborna Khatun, Md. Shah Jamal, Md. Rezoan Badsha, Arafat Islam Apurba, & Akram Mahmud Tushar (2025, November). **Performance of Lathe Fiber Reinforced Concrete Exposed to Chloride Solution**. In 8th International Conference on Engineering Research, Innovation, and Education 2025 (ICERIE 2025) (pp. 291-299). Advances in Engineering Research (AER) Proceedings Series by Atlantis Press (Part of Springer Nature). https://doi.org/10.2991/978-94-6463-884-4_35
3. Most. Shuborna Khatun¹, Md. Shah Jamal² and Billal Fakir³, **A GIS-Based Analysis of Air Quality and Pollutants Distribution in and around Dhaka City**. 1st International Conference on Recent Innovation of Civil Engineering & Architecture for Sustainable Development (IICASD-2024), 7~9 November 2024, DUET, Gazipur, Bangladesh. <https://www.researchgate.net/publication/385394470>
4. Most. Shuborna Khatun^{1*}, Md. Shah Jamal² and Md. Rashidul Hasan³, **Unveiling Air Quality Dynamics in Bangladesh and It's Cross Border Impact**. 7th International Conference on Advances in Civil Engineering (ICACE 2024), 12-14 December 2024, CUET, Chattogram, Bangladesh, <https://icace2024.cuet.ac.bd>
5. Md. Shah Jamal¹, Most. Shuborna Khatun^{2*}, Md. Rezoan Badsha³, and Nabila Islam Shorna⁴, **Mechanical and Durability Aspects of Abaca Fiber-Reinforced Concrete with Fly Ash**. 8th International Conference on Engineering Research, Innovation and Education (ICERIE 2025), 24-26th April 2025, SUST, Sylhet. <https://icerie2025.sust.edu>
6. Most. Shuborna Khatun^{1*}, Md. Shah Jamal², Md. Rezoan Badsha³, Arafat Islam Apurba⁴, and Akram MahmudTushar⁴, **Performance of Lathe Fiber Reinforced Concrete Exposed to Chloride Solution**. 8th International Conference on Engineering Research, Innovation and Education (ICERIE 2025), 24-26th April 2025, SUST, Sylhet. <https://icerie2025.sust.edu>
7. Most. Shuborna Khatun^{1*}, Md. Mafizur Rahman², **Assessing Health and Environmental Risks for Residents Near the Amin Bazar Landfill: A Case Study in Dhaka, Bangladesh**. Paper ID- 83, International Conference on Civil Engineering Research & Innovations (ICCEI 2025), 12-14th December 2025, RUET, Rajshahi. <https://icceiruet.org/>
8. Most. Shuborna Khatun^{1*}, Md. Shah Jamal², Tanzila Ahmed Lamia³, Md. Shadman Sakib Chowdhury⁴, Md. Emran Hossain Emon⁵, and Sifwat Alvi Rahman⁶, **Air Quality Crisis in Rajshahi Division, Bangladesh: The Role of Cross-Border PM2.5 Transport**. Paper ID- 105, International Conference on Civil Engineering Research & Innovations (ICCEI 2025), 12-14th December 2025, RUET, Rajshahi. <https://icceiruet.org/>
9. Tanzila Ahmed Lamia¹, Most. Shuborna Khatun², Durjoy Biswas³, Mazharul Islam Seam⁴, Riaz Ahammed⁵, and Md. Naimur Rahman⁶, **Mobile Monitoring of Air Quality of Dhaka city: A comprehensive analysis of environmental risks**. Paper ID- 418, International Conference on Civil Engineering Research & Innovations (ICCEI 2025), 12-14th December 2025, RUET, Rajshahi. <https://icceiruet.org/>
10. Most. Shuborna Khatun^{1*}, Md. Shah Jamal², Arafat Islam Apurba³, and Akram Mahmud Tushar⁴, **Properties of Wrapped-Core Galvanized Iron Fiber Reinforced Concrete with Varying Fiber Contents and Turns Per Unit Length**. Paper ID-15, 8th International Conference on Civil Engineering for Sustainable Development (ICCESD 2026), 5-7 February 2026, KUET, Khulna. <https://iccesd.kuet.ac.bd/>

11. Most. Shuborna Khatun^{1*}, Md. Shah Jamal², Sifwat Alvi Rahman³, Md. Shadman Sakib Chowdhury⁴, Md. Emran Hossain Emon⁵, and Md. Rashidul Hasan⁶, **Performance Enhancement of Recycled Aggregate Concrete Using Coconut Stem Ash**. Paper ID-576, 8th International Conference on Civil Engineering for Sustainable Development (ICCESD 2026), 5-7 February 2026, KUET, Khulna. <https://iccesd.kuet.ac.bd/>

Thesis Supervision

1. Influence of Fly Ash on Performance of Abaca Fiber Concrete Exposed to Chloride Solution
2. Assessing the Effects of Ambient Air Pollution and Health Risks from Amin Bazar Solid Waste Landfill in Dhaka, Bangladesh
3. A GIS Based Analysis of Air Quality and Pollutant Distribution in and Around Dhaka City
4. Assessment of Mechanical Properties of Concrete Incorporated with Calamus Tenuis Cane Fiber
5. Performance of Lathe Fiber Reinforced Concrete Exposed to Chloride Solution
6. Evaluation of the risk of drought in the western region of Bangladesh
7. GIS Based Flood Risk Assessment and Mapping of Khagrachhari District, Bangladesh
8. Tracking Air Quality in Bangladesh: The Role of Transboundary Pollution
9. Properties of Core-Wrapped Galvanized Iron Fiber Reinforced Concrete with Varying Fiber Content and Turns Per Unit Length
10. Performance Enhancement of Recycled Aggregate Concrete Using Coconut Stem Ash
11. Prediction of the Strength model of concrete incorporated with recycled aggregates

Personal Information

Father's Name	Md. Shukchad Ali
Mother's Name	Beauty Begum
Present Address	Boalia, Dingeda-7200, Chuadanga Sadar, Chuadanga
Permanent Address	Boalia, Dingeda-7200, Chuadanga Sadar, Chuadanga
Contact No.	+8801886808800
NID No.	3751629209
Date of Birth	27 December 1996

References

<p>Reference: 01 Dr. Engr. Md. Rashidul Hasan Professor (Civil Engineering) Prime University Dhaka-1216, Bangladesh Phone: +8801729919002 Email: mrhasanraj@gmail.com</p>	<p>Reference: 02 Dr. Tahmina Tasnim Nahar Associate Professor (Civil Engineering) Pabna University of Science and Technology Pabna-6600, Bangladesh Phone: +8801798991440 Email: tasnim@pust.ac.bd</p>
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Declaration

I do hereby declare that all information stated in this resume is true to the best of my knowledge. I authorize the receiver of this resume to verify the information provided in this resume.

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 Most. Shuborna Khatun