

# **Curriculum Vitae of Md. Zayedul Hasan**

## **Contact Information:**



Md. Zayedul Hasan  
Associate Professor  
Department of Textile Engineering  
Mawlana Bhashani Science and Technology University,  
(MBSTU), Santosh, Tangail-1902, Bangladesh.  
Mobile No. +8801796102505  
E-mail: [tezayedul@mbstu.ac.bd](mailto:tezayedul@mbstu.ac.bd), [zayedul.hasanmbstu@gmail.com](mailto:zayedul.hasanmbstu@gmail.com)  
Web: <https://mbstu.ac.bd>

## **Career Objectives:**

To work in a position combined with research, sincerity, dedication, strong communication, leadership, skill and attention for the modern world.

## **Academic Qualification:**

<b>Degree/ Exam</b>	<b>Department</b>	<b>Year</b>	<b>University/ Institution</b>	<b>Result</b>
PhD	Textile and Fibre Engineering		Indian Institute of Technology Delhi (IIT Delhi), New Delhi, India	On Going
M. Sc. (Engg.)	Textile Engineering	2015	Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902	CGPA-3.84(A) (Merit position-2 <sup>nd</sup> ) Out of 4.00
B. Sc. (Engg.)	Textile Engineering	2011	Mawlana Bhashani Science and Technology University, Santosh, Tangail-1902	CGPA-3.73(A-) (Merit position-3 <sup>rd</sup> ) Out of 4.00
HSC	Science	2007	Govt. Science College, Tejgaon, Dhaka.	GPA-4.90 (A) Out of 5.00
SSC	Science	2005	Pagla High School, Pagla, Narayanganj	GPA-4.94 (A) Out of 5.00

### **Academic Thesis:**

<b>Degree</b>	<b>Thesis Title</b>
M. Sc. (Engg.)	Effect of various washing process on properties of four way stretch denim fabric
B. Sc. (Engg.)	Study on identification of various faults of knitted garments and their remedies

### **Research Interest:**

Garments Washing, Comfort of Cloth, Functional Clothing, Product design and Development, Technical Textile, Medical Textile, Composite Materials, Advance Fiber and Fabric

### **List of publications**

#### **Research paper**

1. Speed Triangle Analysis of Added Irregularity, IOSR Journal of Polymer and Textile Engineering (IOSR-JPTE) e-ISSN: 2348-019X, p-ISSN: 2348-0181, Volume 5, Issue 1 (Jan. - Feb. 2018), PP 01-04
2. Application of Nanotechnology in Modern Textiles: A Review, Available online 05 March 2018, Vol.8, No.2 (March/April 2018)
3. Effect of Resin Finish for Crinkle Appearance on Bending and Tensile Properties of Denim Fabrics, International Journal of Textile Science 2018, 7(3): 75-81
4. Lean Manufacturing for Improving Productivity at Sewing Section in Apparel Industry: An Empirical Study, International Journal of Textile Science 2019, 8(1): 1-9
5. Analysis on thermal comfortability of different three thread fleece fabric, International Journal of Current Engineering and Technology, Available online 28 Dec, Vol.8, No.6 (Nov/Dec 2018)
6. Hydrogel Fibre: Future Material of Interest for Biomedical Applications, Journal of Textile Science and Technology, 2019, 5, 92-107
7. A Brief Overview of Different Analytical Techniques for Material and Chemical Analysis, International Journal of Instrumentation Science 2020, 7(1): 1-12
8. Effect of Different Softeners on Dimensional Stability and Color Fastness Properties of Stretch Denim Fabric, Advances in Applied Sciences 2020; 5(4): 112-119
9. An Experimental Investigation of Different Washing Processes on Various Properties of Stretch Denim Fabric, Journal of Materials Science and Chemical Engineering, 2021, 9, 1-15
10. Fabrication and analysis of physico-mechanical characteristics of NaOH treated PALF reinforced LDPE composites: Effect of gamma irradiation, journal of materials research and technology 2021;11:914-28
11. Evaluation of comfort and thermal properties of stretch denim fabric by applying different softeners
12. Effect of Super White Washing Process Temperature and Optical Brightening Agent Concentration on Various Properties of Stretch Denim Fabric, International Journal of Systems Engineering 2021; 5(1): 43-50
13. An Empirical Analysis of Sustainable Denim Washing Technology in the Apparel Industries, International Journal of Industrial and Manufacturing Systems Engineering 2021; 10(2): 20-34

14. Comparative Performance Analysis Between Potassium Permanganate (KMnO<sub>4</sub>) Spray and Alternative PP (KMnO<sub>4</sub>) Spray on Various Properties of Denim Fabric, *International Journal of Industrial and Manufacturing Systems Engineering* 2021; 6(4): 59-65
15. Impact of Woven Fabric Structure and Material on Thermo-physiological Comfort Properties of Cut Protective Textile. *Annual Technical Volume*,2023. Textile Engineering Division Board, 9-16
16. Phase change materials in textiles: synthesis, properties, types and applications – a critical review. *Textile Research Journal*, 2024;94(23-24):2763-2779. doi:10.1177/00405175241246822
17. Thermophysiological Comfort Behaviour of Cut Protective Workwear Consisting of Filament Twisted Multicomponent Hybrid Yarn. *Tekstilec*,2024; 67(4), 321-345. <https://doi.org/10.14502/tekstilec.67.2024085>
18. Electromagnetic shielding behavior of cut-protective workwear consisting of metallic core multicomponent hybrid yarn. *International Journal of Occupational Safety and Ergonomics*,2025; 31(3), 648–657. <https://doi.org/10.1080/10803548.2025.2455826>
19. Thermophysiological comfort characterization of cut-protective fabric consisting of metallic core-covered yarn. *International Journal of Occupational Safety and Ergonomics*, 2025;31(3), 827–836. <https://doi.org/10.1080/10803548.2025.2463793>
20. Development of jute/coir hybrid natural FRPs for building and automotive thermal insulation: Effect of fiber loading. *Hybrid Advances*,2025; 12 (100575), 1-10
21. Moisture management behavior of cut protective fabric produced from high-performance core spun yarn. *Research Journal of Textile and Apparel*,2025. <https://doi.org/10.1108/RJTA-03-2025-0050>
22. Thermophysiological comfort characterization of cut-resistant workwear clothing using multicomponent high-performance core-spun yarn. *Research Journal of Textile and Apparel*,2025. <https://doi.org/10.1108/RJTA-12-2024-0207>
23. Evaluation of low-stress mechanical properties of cut protective workwear fabric made by using filament twisted core-sheath yarn. *International Journal of Occupational Safety and Ergonomics*, 2025;1–17. <https://doi.org/10.1080/10803548.2025.2545694>
24. Design and Development of Comfortable Cut-Protective Workwear: A Review. *Tekstilec*,2025; 68, 1-26. <https://doi.org/10.14502/tekstilec.68.2025021>

### **Conference paper**

1. Comfortable cut protective workwear: Review.1<sup>st</sup> Indo Japan Textile Research Conference, Indian Institute of Technology Delhi and Shinshu University Japan, 27-28<sup>th</sup> November,2023.
2. Thermo-physiological comfort of cut protective workwear.7<sup>th</sup> International Conference on Technical Textiles and Nonwovens, Indian Institute of Technology Delhi , 12-14<sup>th</sup> December,2023.
3. Effect of areal density on mechanical and comfort behavior of cut protective workwear fabric. International Conference on Emerging Trends in STEM & Health-Agri Sciences for Sustainable Development, MIET KUMAON, Nanital, Uttarakhand, 11-12<sup>th</sup> March,2024.

4. Impact of weave structure on moisture management properties of cut protective workwear fabric. 77<sup>th</sup> All India Textile Conference, Indian Institute of Technology Delhi , 16-17<sup>th</sup> March,2024.
5. Kumar. Low-stress mechanical behavior of cut resistant fabric. 14<sup>th</sup> HSCA International Conference, Government College,Bilashpur, Himachal Pradesh, 16-17<sup>th</sup> November,2024.
6. Low stress mechanical characterization of cut protective fabric consists of SS filament twisted core covered yarn. 6<sup>th</sup> International Conference on Sustainable Technologies for Industry 5.0, Green University of Bangladesh, Narayanganj, Bangladesh, 14-15<sup>th</sup> December 2024.
7. Kumar. Effect of the weave pattern on low-stress mechanical properties of cut protective workwear fabric. 4<sup>th</sup> International Conference on Functional Textiles & Clothing, Indian Institute of Technology Delhi, New Delhi, India, 31<sup>st</sup> Jan-2<sup>nd</sup> December 2025.