



**Dr. Md. Ismail Hossain**

Assistant Professor

**Research Area** Artificial Intelligence (Fuzzy Logic, Artificial Neural Network), Taguchi Approach, Composite Textile, Nanotechnology, Functional Textile, Green & Sustainable Textiles, Coloration Technology.

## Biography

Assalamu Alaikum and very welcome to my personal profile. I am Dr. Md. Ismail Hossain, currently serving as an Assistant Professor at the Department of Textile Engineering in Khulna University of Engineering & Technology (KUET). I pursued my MS leading to a PhD in Textile Manufacturing Process at the University of Malaya (UM) in Kuala Lumpur, Malaysia, and my BSc in Textile Engineering at the University of Dhaka in Bangladesh. I have more than 25 Years of Academic, Research, and Industry experience in the Textile and RMG sectors from Textile materials processing to Apparel manufacturing. In addition to my teaching and research experience, I have held several administrative roles, including serving as a course coordinator in the Department of Textile Engineering at KUET and as the Associate Head in the Department of Textile Engineering at Daffodil International University in Dhaka, Bangladesh. Moreover, I have local and international training in Textile production, quality control, testing, and product development in different countries. I have extensive knowledge of various academic disciplines, including Wet Processing Technology, Waste Management in Textiles, Green and Sustainable Textiles, and Total Quality Management (TQM) for the Textile Industry at the undergraduate and postgraduate levels. Meanwhile, I have published 20 journal articles in peer-reviewed reputed international journals, 15 of which are in the Web of Science & Scopus Indexed, and presented 4 conference papers at international conferences. My research interests include Coloration Technology, Nanotechnology, Functional Textiles, Green & Sustainable Textiles, Composite Textiles and Application of Artificial Intelligence (Fuzzy Logic, Artificial Neural Networks), and Taguchi Approach to Textiles. I am a life member (LM-1042) of the Institution of Textile Engineers & Technologists (ITET), Bangladesh and a general member of The Institution of Engineers, Bangladesh (IEB).

## Education

### PhD in Textile Manufacturing Process

University of Malaya, Kuala Lumpur, Malaysia (Student Type: Full time,

**Thesis Title:** [Dyeing Process Parameter Optimization and Quality Characteristics Modeling for Viscose Blended Knitted Fabrics](#)

### BSc. in Textile Engineering

University of Dhaka, Bangladesh (Group: Textile Engineering, Student Type: Full time,

## Service Records

- **General Manager**  
**Department/Section:** Knitting & Dyeing  
**APS Apparel Ltd. (APS Group)** *From to*  
Working Area: Laboratory, Knitting, Dyeing & Finishing  
Responsibility: Production, Quality Control, R & D; WTP, ETP and Overall Management of Knitting & Dyeing.
- **Part-time Faculty Member**  
**Department/Section:** Textile Engineering  
**BGMEA University of Fashion & Technology** *From to*  
Working Area: Advanced Printing and Finishing (MSc course)  
Responsibility: Teaching, Paper Setter and Examiner
- **Part-time Faculty Member**  
**Department/Section:** Textile Engineering

**Bangladesh University of Textile (BUTex)** *From to*

Working Area:Man-made Textile Fibers

Responsibility:Teaching, Paper setter and Examiner

- **Assistant Professor**

**Department/Section:** Textile Engineering

**Daffodil International University** *From 2016-05-04 00:00:00to2018-08-31 00:00:00*

Working Area:Wet Processing Engineering

- **Assistant Professor**

**Department/Section:** Textile Engineering

**Khulna University of Engineering & Technology (KUET)** *From 2018-09-03 00:00:00to1970-01-01 06:00:00*

Working Area:Wet Processing Engineering

## Research Interest

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**Artificial Intelligence (Fuzzy Logic, Artificial Neural Network), Taguchi Approach,**

**Composite Textile,**

**Nanotechnology,**

**Functional Textile, Green & Sustainable Textiles,**

**Coloration Technology.**

## Publication

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### Books

1Shamsuzzaman,M. , Hossain,I. , Saha,T. , Roy,A. , Das,D. and Podder,M. T. A. & S. K. (2023) , " Advanced Technology in Textiles", **Waste Management in Textile Industry** , ISBN:978-981-99-2142-3, Springer Nature