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Md. Mahabub Hasan

Textile Engineering

Bio

Md. Mahabub Hasan is currently working as an associate Professor in Textile Engineering Department at National Institute of Textile Engineering & Research (NITER), Savar, Dhaka. He completed his B.Sc. in Textile Engineering in 2003 from College of Textile Engineering and Technology, affiliated college of University of Dhaka. He received M.Sc in Textile and Clothing Materials in 2013 from Technical University, Germany under DAAD scholarship. He has the experience to work in renowned textile industries in Bangladesh. He has also experience to work as an assistant Professor in Primeasia University, Banani, Dhaka and Bangladesh University of Business and Technology, Mirpur, Dhaka, Bangladesh.

Education

Degree Name	Group/Major Subject	Board/Institute	Country	Passing Year
B.Sc.	Textile Technology	Dhaka University	Bangladesh	2003
Master in Textile and Clothing Technology	Textile Technology	Technical University Dresden, TUD	Germany	2013

Experience

Job Title	Organization	Location	From Date	To Date
Associate Professor	National Institute of Textile Engineering & Research	Nayarhat, Savar, Dhaka	06-01-2019	Continue
Assistant Professor	National Institute of Textile Engineering & Research	Nayarhat, Savar, Dhaka, Bangladesh	08-02-2018	30-09-2018
Assistant Professor	Bangladesh University of Business and Technology (BUBT)	Mirpur, Dhaka, Bangladesh	01-10-2014	07-01-2018
Lecturer to Assistant Professor	Primeasia University	Banani, Dhaka, Bangladesh	01-01-2008	30-09-2014
Production officer, Yarn & Knit dyeing unit	Sinha Textile Group	Narayanganj, Bangladesh	01-08-2005	31-12-2007

Research Activities

Research Interest

Subject	Description	Research Interest (Goal/ Target Indication)
Dyeing, Printing & Finishing	Coloration of various types of fibers, yarns and fabrics using innovative methods and technology. Development of sustainable finishing technology for providing quality fabrics.	To develop green technology or reduce the dyes and chemicals in the industry
Technical Textiles	To incorporate various types of materials for producing functional textiles.	Medical textiles, textile composite, smart textile, intelligent textile and many more.

Project/Research Supervision

Level of Study	Title	Supervisor	Co-Supervisor(s)	Name of Student(s)	Area of Research	Current Completion
M.Sc.	Investigating comfort properties of denim fabric based on the structure of Coolmax® fiber	Md. Mahabub Hasan	-	Imtiaz Shahriar	Functional Textiles	Completed
M.Sc.	Chemical-Free pretreatment of Knitted Cotton Fabric for Optimum Dyeing Performance	Md. Mahabub Hasan	-	Mehedy Hasan	Greener Coloration Technology	Completed

Project/Research Work

Subject	Project Name	Source of Fund	From Date	To Date	Collaboration
Development of chitosan yarn by wet spinning technology	Chitosan yarn development for medical purpose	TU Dresden	October, 2012	March, 2013	**Dr. Hund** Faculty member, Technical University, Dresden, Germany.
Developed 3D glass fabric in warp knitting machine for the use of different functional purposes	Development of 3D glass fabric	TU Dresden	April, 2013	July, 2013	**Prof. Krzywinski** Faculty member, Technical University, Dresden, Germany.

Membership

Collaboration & Membership Name	Type	Membership Year	Expire Year
IEB	Institutional	2008	
ITET	Institutional	2008	-

Publications

Journal Article

SL. No-	Article Name	Link
1.	Md. Mahabub Hasan, Khandakar Abu Nayem, Mohammad Billal Hossain, Sharmin Nahar; Production of Tissue Engineering Scaffolds from Poly Caprolactone (PCL) and its Microscopic Analysis; International journal of textile science (USA); Volume 3, 2014 (3)	http://article.sapub.org/10.5923.j.textile.20140303.01.html
2.	Md. Mahabub Hasan, Mohammad Billal Hossain; Application of Purified Curcumin as Natural Dye on Cotton and Polyester, 2014, International Journal of Engineering & Technology IJET-IJENS Vol:14 No:05	https://www.academia.edu/68907590/Application_of_Purified_Curcumin_as_Natural_Dye_on_Cotton_and_Polyester
3.	Md. Mahabub Hasan, A.K.M Mashud Alam, Khandakar Abu Nayem; Application of electrospinning techniques for the production of tissue engineering scaffolds: A Review. European Scientific Journal, Volume10, 2014 (15), pp 265-278.	https://core.ac.uk/download/pdf/236417151.pdf
4.	Md. Mahabub Hasan, Abu Yousuf Mohammad Anwarul Azim and Md. Shamim Reza; Effect of Electrospinning Parameters on Fiber Morphology of Tissue Engineering Scaffolds: A Review, Journal of Fashion Technology & Textile Engineering; 2014.	https://www.scitechnol.com/effect-of-electrospinning-parameters-on-fiber-morphology-of-tissue-engineering-scaffolds-a-review-oNIk.php?article_id=2475
5.	Md. Mahabub Hasan, Farhatun Nabi and Rezwan Mahmud; Benefits of Enzymatic process in Textile Wet Processing. International Journal of Fiber and Textile Research, 2015, 5 (2), pp 16-19.	https://www.researchgate.net/publication/309076230_Benefits_of_enzymatic_process_in_textile_wet_processing
6.	Md. Mahabub Hasan, Khandakar Abu Nayem, Abu Yousuf Mohammad Anwarul Azim, and Nayon Chandra Ghosh; Application of Purified Lawsone as Natural Dye on Cotton and Silk Fabric; Journal of Textiles; 2015	https://www.hindawi.com/journals/jtex/2015/932627/
7.	Md. Mahabub Hasan, Khandakar Abu Nayem, Abu Yousuf Mohammad Anwarul Azim; Dyeing of cotton and silk fabric with purified natural curcumin dye; International Journal of Scientific Engineering and Technology; 2014, Vol. 3. Issue No. 7, PP 838- 844.	https://www.indianjournals.com/ijor.aspx?target=ijor:ijset1&volume=3&issue=7&article=002

8.	Kabir, S. M., Hasan, M., & Uddin, M. (2019). Novel Approach to Dye Polyethylene Terephthalate (PET) Fabric in Supercritical Carbon Dioxide with Natural Curcuminoid Dyes. *Fibres & Textiles in Eastern Europe*.	https://www.researchgate.net/publication/333130697_Novel_Approach_to_Dye_Polyethylene_Terephthalate_PET_Fabric_in_Supercritical_Carbon_Dioxide_with_Natural_Curcuminoid_Dyes_FIBRES_TEXTILES_in_Eastern
9.	Khan, M. K. R., Hasan, M. M., & Haque, A. K. M. M. (2020). Investigating the effects of some process parameters on the quality of coarse compact yarn produced from carded roving. *J Textile Eng Fashion Technol*, *6*(6), 251-255.	https://medcraveonline.com/JTEFT/investigating-the-effects-of-some-process-parameters-on-the-quality-of-coarse-compact-yarn-produced-from-carded-roving.html
10.	Hasan, M. M., Shuvho, M. B. A., Chowdhury, M. A., Alam, A. M., Hassan, M., & Hossain, N. (2022). Water criteria evaluation for drinking and irrigation purposes: a case study in one of the largest rivers of Sundarbans World Heritage region. *Water Supply*, *22*(6), 5800-5817.	https://iwaponline.com/ws/article/22/6/5800/88707/Water-criteria-evaluation-for-drinking-and
11.	Hasan, M., Alam, M., Haque, M., Moly, H. H., & Tanji, M. (2021). Impacts of textile and leather effluent on environment: An assessment through life cycle of fishes and plants. *J. Text Eng. Fash Technol*, *7*(3).	https://medcraveonline.com/JTEFT/impacts-of-textile-and-leather-effluent-on-environment-an-assessment-through-life-cycle-of-fishes-and-plants.html
12.	Mamun Kabir, S. M., Hasan, M., & Alam, A. K. M. (2022). Investigating the Functional and Comfort properties of a Face Mask Based on a Coolmax® Blended Cotton Fabric. *Fibres & Textiles in Eastern Europe*.	https://sciendo.com/pdf/10.2478/ftee-2022-0028

Conference Proceedings

SL. No-	Paper Name	Link
1.	Md. Mahabub Hasan, Study on the percolation threshold of conductive hybrid yarn; Textile Research Conference 2014, 8-9 August, Dhaka, Bangladesh.	https://www.semanticscholar.org/paper/STUDY-ON-THE-PERCOLATION-THRESHOLD-of-CONDUCTIVE-Hasan/59a9f087aa79f97aeddeea387bdd59896431d42b#citing-papers
2.	Md. Mahabub Hasan, Sanjida Sultana, and Shah Mohammad Fatah-ur-Rahman; Effect of Functional Group of Reactive Dye on Properties of Dyed Cotton Fabric, Textile Research Conference 2015, 26 December, Dhaka, Bangladesh.	

Award

Award Type	Title	Year	Country	Description
DAAD Fellowship	Master in Textile and Clothing	April 2011 to September 2013	Germany	For pursuing the M.Sc. degree

Contact

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Institute – Faculty
Name of the Department: Textile Engineering
Position: Associate Professor