

NITER



Dr. Toufique Ahmed

Textile Engineering

Bio

Dr. Toufique Ahmed, Graduated from Bangladesh University of Textiles in 2012. In 2016 he received M.sc in Textile Engineering from Bangladesh University of Textiles. In 2017 He went Turkey for PhD in Textile Engineering under Turkish Government Scholarship. He completed PhD in Textile in 2022 from Cukurova University, Turkey. In his career life he started his career in Evince Textiles Ltd. as a production officer (weaving).

Education

Degree Name	Group/Major Subject	Board/Institute	Country	Passing Year
Ph.D.	Textile Engineering	Cukurova University	Turkey	2022
M.Sc.	Textile Engineering	BUTEX	Bangladesh	2016
B.Sc.	Textile Engineering	BUTEX	Bangladesh	2012

Experience

Job Title	Organization	Location	From Date	To Date
Production Officer (weaving)	Evince Textiles Ltd.	Gazipur	2012	2014
Lecturer	NITER	Savar, Dhaka	2014	2017
Asst. Professor	NITER	Savar, Dhaka	2017	2023
Assoc. Professor	NITER	Savar, Dhaka	2023	Present

Research Activities

Research Interest

Subject	Description	Research Interest (Goal/ Target Indicator)
Machine Learning	Predicting wastage in weaving and knitting factory using various machine learning algorithms	Develop an web app to predict the wastage
Antibacterial textiles	Green synthesis of AgNPs and it incorporation in textiles materials	To produce antibacterial, antiodor products

Membership

Collaboration & Membership Name	Type	Membership Year	Expire Year
ITET	Textile Engineers institute	2013	2014
IEB	Engineers Institute Bangladesh	2015	2016

Publications

Journal Article

SL. No-	Article Name	Link
1.	T Ahmed, S Udding, Textile weaving dataset for machine learning to predict rejection and production of a weaving factory, Data in Brief,	https://doi.org/10.1016/j.dib.2023.108995
2.	T Ahmed , R.T Ogulata, <i>Recoverable antibacterial property loss of green synthesized AgNPs loaded cotton fabrics with time</i> , Research in Chemistry	https://doi.org/10.1016/j.rechem.2022.100462
3.	T Ahmed , R.T.Ogulata, S.S,Bozok, <i>Silver nanoparticles against SARS-CoV-2 and its potential application in medical protective clothing—a review</i> , <i>The Journal of The Textile Institute</i>	https://doi.org/10.1080/00405000.2021.1996730
4.	T Ahmed , R. T. Ogulata, <i>A Review on Silver Nanoparticles -green Synthesis, Antimicrobial Action and Application in Textiles</i> , Journal of Natural Fibers	https://doi.org/10.1080/15440478.2021.1964135
5.	M M Hoque, T Ahmed , T Shams, I. Islam, T Ahmed, Predicting Bursting strength of Single Jersey 100% Cotton Plain Knitted Fabrics Using Different Machine Learning Models, World Journal of advanced Research and Reviews.	https://doi.org/10.30574/wjarr.2022.16.3.1328
6.	M Mohsin Ul Hoque, T Ahmed , Ismat Zerine, Md. Ikramul Islam, Effect of Yarn Count, Weave Structure, Construction on Thermal Properties and Air Permeability of Fabrics	https://doi.org/10.24018/ejeng.2022.7.6.2933
7.	T Ahmed , Jahid Sarker, SM Ashique, Loom Settings, and Fabric Structure:	https://asrjetsjournal.org/article/view/2781/1070

	Two Major Influencing Factors of Warp Tension Variation, American Academic Scientific Research Journal for Engineering, Technology, and Sciences, 2017	
8.	SA Didar, SU Patwary, S Kader, MMK Akter, T Ahmed , <i>Development of different denim effect on knitted fabric and comparative analysis with conventional woven denim on the basis of physical and dimensional properties</i>	http://www.isca.me/IJES/Archive/v4/i4/2.ISCA-RJEngS-2014-69.pdf
9.	T Ahmed , K Sowrov, SM Mominul Alam, The Effect of Backrest Roller on Warp Tension in Modern Loom	https://doi.org/10.19044/esj.2017.v13n9p127

Conference Proceedings

SL. No-	Paper Name	Conferrname name and place
1.	T Ahmed , SS Bozok, R. Ogulata, Green Synthesized Silver Nonwovens of Nanoparticles with Different Methods Transfer to Surfaces, Cukurava National Conference	Cukurava National Conference (UCTEK-2022), Adana, Turkey
2.	T Ahmed , <i>Predicting cumulative waste by XGBoost, Random forest, Neural network, and linear regression in the weaving industry,</i>	6 th international Students Conference, Ankara, Turkey, 9-12 December 2021.
3.	T Ahmed , Humaun kabir, <i>Effect of different loom settings and fabric structure on warp tension</i> , TPQ-22, November 2-4, 2014,	Textile Institute World Conference-2014, Wuhan, China
4.	T Ahmed , Shahidul Kader <i>Seamless Jute Bag: A novelty in Eco-friendly packaging</i> , ICMIEE-P1-140228, 26-27 December, 2014,	International Conference on Mechanical Industrial and Energy Engineering-2014, KUET, Khulan, Bangaladesh

Award/grant

Award Type	Title	Year	Country	Description
Research Grant	CU research grant	2020	Turkey	Research grant of 30,000 TL with an expansion option upto 50,000 TL
Board Scholarship	HSC	2006	Bangladesh	Jessore Education Board
Board Scholarship	SSC	2004	Bangladesh	Jessore Education Board

Contact

Academic

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Institute – Faculty

Name of the Department: Industrial and Production Engineering (IPE)

Position: Assoc. Prof. & Head, Department of IPE