Bangladesh University of Textiles

KNOWLEDGE IS POWER

2022-23

ANNUAL REPORT

1st Annual Report

2022-2023

Bangladesh University of Textiles

1st Annual Report

2022-2023

Mohammed Shahabuddin
Chancellor

Prof. Dr. Shah Alimuzzaman
Vice-Chancellor

Bangladesh University of Textiles

Preface

Bangldesh University of Textiles was established in 2010 with the objectives of leading the textile industry of Bangladesh through education and research. During the last one decade of endeavours, the university has achieved a lot towards its objectives. The university has opened 5 faculties and 14 depaetments to lead the textile industry of Bangladesh. We have 10 affiliated colleges. The university has extended its education and research to Masters and Doctoral level, and has also opened continuing education pursuit through MBA and PGD in Textile Management programs.

After the establishment of Bangladesh University of Textiles, the first annual report has been published where various activities including education, research, co-educational activities, income-expenditure and physical infrastructure development for the session 2022-2023 have been presented. All information included in this report has been collected from various departments/branches of the university. The Editorial Board has kept the received data unchanged unless any major discrepancies were observed and tried to complete the task with utmost awareness.

As this is the first annual report published by the University, there may be some inconsistencies and typographical errors in various areas. I sincerely apologize in advance for these mistakes that were published unintentionally and for unknown reasons.

Although it is important to address the issues to the people of Bangladesh thorguh annula report every year. I think this annual report will be a guideline for taking any academic/adminstrative dicisions. The initiative has taken by the current Vice Chancellor Prof. Dr. Shah Alimuzzaman whose wholehearted encouragement made the publication possible on time. So, we are happy to launch the debut annul report of Bangladesh University of Textiles.

I express my sincere gratitude to all the members of the Annual Report Committee. A sincere thanks to all those who tirelessly contributed to this work.

Prof. Dr. Nargish Jahan Ara
Convener
1st Annual Report 2022-23 Committee
&
Dean
Faculty of Science and Engineering
Bangladesh University of Textiles

Editorial Pannel

Message from the Vice-Chancellor

I am very happy to publish this first annual report of Bangladesh Textile University in 13 years of establishment.

The annual report provides a snapshot of a university's year-long academic research development and progress. As a result, through self-criticism, accepting and implementing the right action plan for the next year is an easy win. Basically; annual report is the mirror of an organization. Through this, many will get recognition of their own work and many will get encouragement to work.

I think that this annual report has a clear description of all the development activities including academic, administrative, research and physical infrastructure during the academic year 2022-2023.

My sincere thanks to all those involved in the publication of this report.

Joy Bangla
May Bangladesh live long.

Professor Dr. Shah Alimuzzaman

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IQAC
EDC
HELD
Canteen
Shaid Aziz Hall
M.A.G Osmani Hall
Syed Nazrul Islam Hall
Sheikh Hasina Hall
Butex Affiliated Colleges

The Bangladesh University of Textiles

Bangladesh University of Textiles (BUTEX) was established in 2010 by passing Bangladesh University of Textiles Act 2010 in the parliament to maintain and achieve parity with the advanced world in the various fields of textile science, textile management, textile engineering and textile technology; and to conduct higher education, research and development in related and other fields in the country through knowledge practice, technology innovation and transfer; and expansion and innovation of related facilities.

Vision

To be a center of excellence for higher education, research and development in the field of textile science & engineering.

Mission

I. Modernization and updating the existing curriculum by adopting outcome based curriculum.
II. Enhancing quality research work to develop diversified & value-added textile and Jute products.
III. Expanding the facilities to train faculty members and staffs for enhancing the quality of higher education, research, and management system.
IV. Necessary Infrastructural and other facilities of BUTEX will be developed by next 5 years for the establishment of new faculties, departments, classroom, workshops, labs, and libraries.

V. To establish Student Service Centre to provide necessary services & counseling for the students.

VI. Building anAcademia-Industry linkage to cater the needs and demands of Textile Industry.

VII. Undertaking exchange & linkage program with similar institutions for the development of human resources, technology transfer, academic standard &practices.

VIII. Promoting quality education for the affiliated textile engineering colleges to improve their standard of education.

Objectives

I. To produce quality and skilled graduates with moral ethical values to meet the demand of Textile & Jute industry of Bangladesh.

II. To create opportunity of higher education & research in all the branches of Textiles to meet the growing need of Textile & Apparel industry.

III. To promote technology development and innovation in textile, apparel& jute industry.

IV. To be an active leader in policy making for sustainable development of textiles & apparel industry of Bangladesh.

V. To work with government and related stakeholders to boost up the export earnings of Bangladesh.

VI. To be an active contributor in economic and social enhancement, and environmental protection through fostering the development of textile industry.

VII. To provide textile testing and consultancy services to the community.

The existing facilities of BUTEX is shown hereunder:

- Land- 11.57 Acr.
- esidential Halls- 4
- Faculties- 05
- Departments- 14
- Affiliated Colleges- 10
- Female Students- 128
- Total Male Students- 2312
- Total Female Students- 631
- BSC in Textile Engineering- 2943
- MSC in Textile Engineering- 96
- Yearly intakes- 600
- Affiliated College Students- 4441
- Total Teachers- 149
- Male Teachers- 98
- Female Teachers- 51
- Professors- 14
- Associate Professors- 19
- Assistant Professors- 92
- Lecturers- 24
- Officers- 79
- Support Staffs 111

The Syndicate

Chairman

Prof. Dr. Shah Alimuzzaman
Vice Chancellor
Bangladesh University of Textiles

Members

1. **Prof. Dr. Mijanur Rahman**
2. **Additional Secretary**
3. **Director General**
4. **Prof. Dr. Engr. Ayub Nabi Khan**
5. **Prof. Dr. Ummul Khair Fatema**
6. **Prof. Dr. Md. Masum**
7. **Prof. Dr. Nargish Jahan Ara**
8. **Prof Dr. Md. Ahashan Habib**
9. **Dr. HM Zakir Hossain**

Member Secretary

Kabari Majumder
Registrar, Butex.

Finance Committee

Chairman

Prof. Dr. Shah Alimuzzaman
Vice-Chancellor, Butex.

Member

1. **Prof. Dr. Ummul Khair Fatema**, Dean, Faculty of Textile Chemical Engineering
2. **Prof. Dr. Md. Masum**, Dean, Faculty of Textile Management and Business Studies
3. **Dr. Nazmina Chowdhury,** Chief Scientific Officer, Bangladesh Jute Research Institute, Manik Mia Avenue, Dhaka.
4. **Dr. Ferdous Zaman,** Secretary, Bangladesh University Grants Commission, Dhaka.
5. **Md. Noor-e-Alam,** Joint Secretary, Ministry of Education, Bangladesh Secretariat, Dhaka.

Member Secretary

Muhammad Kamruzzaman Chowdhury, Deputy Director (Finance & Accounts)

Academic Council

External Member of Academic Council

Engr. Md. Solaiman
Principal
Pabna Textile Engineering College,
Salgaria, Pabna-6600
Engr. Md. Ali Azom Rokon
Principal
Textile Engineering College,
Zorargonj, Chattogram.
Engr. Md. Abdul Kader Bepari
Principal
Shahid Abdur Rab Serniabat Textile
Engineering College, C & B Road,
Barishal.
Engr. Md. Saifur Rahman
Principal
Textile Engineering College,
Begumgonj, Noakhali.
Engr. Md. Firoze Khandakar
Principal
Sheikh Kamal Textile Engineering
College, Aruakandi, Modhupur,
Jhenaidah Sador.
Engr. Bakhtiar Hossain
Principal
Bangabandhu Textile Engineering
College, Baghutia, Kalihati, Tangail.
Engr. Md. Gulzer Hossain
Principal
Bangladesh Handloom Education &
Training Institute, Saheprotap,
Norsingdi

Engr. Md. Abdur Rokib
Principal
Dr. M A Wazed Miah Textile
Engineering College, Pirgonj,
Rangpur.

Engr. Nayon Chandra Ghosh
Principal
Sheikh Rehana Textile Engineering
College,
Ghonapara, Gopalgonj

Bishawjit Das
Principal
Sheikh Hasina Textile Engineering
College,
Melandaho, Jamalpur.

Eng. Shafiqur Rahman
President
Institute of Textile Engineers &
Technologist, Dhaka.

Prof. Dr. Muhammad Masroor Ali
Department of Computer Science &
Engineering
Bangladesh University of Engineering
& Technology, Dhaka

Engr. Syed Ishtiaq Ahmed
Director, BTMA
Managing Director, Saiham Cotton
Mills Ltd.
House-41, Flat -8B, Road-35,
Gulshan-02, Dhaka

Mr. Tanvir Ahmed
Director, BGMEA
Envoy Fashion Ltd., Envoy Tower,
18/E, Lake Circus, Kalabagan, West
Panthapath, Dhaka

Mr. Md. Shamsuzzaman
Director, BKMEA
Planners Tower (4th Floor), 13/A,
Sonargaon, Road, Bangla Motor,
Dhaka

Faculties and Departments

Faculty of Textile Engineering

Textile and garments is the largest export oriented sector in Bangladesh. The development of economy of Bangladesh and growth of export are highly dependent on the ability of textile industry to compete internationally with finest products. Cutting edge machinery maintained by skillful engineers are the most important prerequisites for perfect products.

Dean

Prof. Dr. Hosne Ara Begum
Faculty of Textile Engineering

Officer

Khatoon-E-Zannat
Section Officer

Department of Yarn Engineering

Textile is the main sector on which foreign exchange earning of Bangladesh mostly depends and Spinning is one of the main sub-sector of textile. At present there are several hundreds of spinning industries in Bangladesh, which are running by different spinners most of them are graduated from this University with specialization in Yarn Engineering. This department has full production length laboratory which is equipped with modern and conventional machinery of yarn manufacturing so that students can learn practical knowledge. The department arranges frequent industrial tour for gaining the latest trend and set up of the industries. Students of this department are given comprehensive knowledge about textile fibers and techniques to convert them into yarn with the best possible available parameters and at most economical rates. The department also offers testing of fiber, yarn and fabric. The department carries out research and development projects for the spinning industry also.

Vision

To develop Yarn Engineering department as a remarkable strong backbone of our textile and Jute sector for sustainable socio-economic development of Bangladesh.

Mission

To provide effective and appropriate education to students to meet the existing requirement of Textile sector including challenge of upcoming advance technological development and capable of solving professional problems.

DEGREE OFFERED

B. Sc. in Textile Engineering (Yarn)

- Number of Seats: 80
- Number of Semester: 08 (6 months each)
- Total Credit: 166

M. Sc. in Textile Engineering (Yarn)

- Number of Seats: 15
- Number of Semester: 03 (6 months each)
- Total Credit: 36

PhD in Textile Science & Engineering

Faculty Members

1. **Dr. Hosne Ara Begum**
   Professor
2. **Dr. Md. Reajul Islam**
   Associate Professor & Head, Dept. of Yarn Engineering
3. **S. M. Farhana Iqbal**
   Associate Professor
4. **Dr. Md. Sultan Mahmud**
   Associate Professor
5. **Dr.MD Zahidul Islam**
   Associate Professor
6. **Sharif Ahmed**
   Assistant Professor
7. **Toufiqua Siddiqua**
   Assistant Professor
8. **Dr Ahmed Jalal Uddin**
   Assistant Professor
9. **Md. Masum Reza**
   Assistant Professor
10. **Md. Rubel Khan**
    Assistant Professor
11. **Farhad Mahmud Chowdhury**
    Assistant Professor
12. **Md. Bashar Uddin**
    Assistant Professor
13. **Samara Islam Nishi**
    Assistant Professor
14. **Tanima Rahman Tanni**
    Assistant Professor
15. **Mr. Tanvir Mahady Dip**
    Lecturer
16. **Susmita Saha**
    Lecturer
17. **Mohammad Hasib Uj Jaman Khan**
    Lecturer

Officer's

Department Office: YE

B.M. Shahidul Islam

Administrative Officer

Testing Lab

Engr. Abdul Barek Mia

Technical Officer (Textile)

Yarn Lab

Engr. Md. Omar Faruk Bhuiyan

Technical Officer (Textile)

Engr. Sala Uddin

Assistant Technical Officer

Md. Abdul Awal

Assistant Technical Officer

Jute Lab

Engr. Md. Tufail Hossain Khan

Technical Officer (Textile)

Md. Faroque Sheikh

Assistant Technical Officer (Textile)

Publication & Research

Prof. Dr. Hosne Ara Begum
Professor

1. Toufiqua Siddiqua, Dr. Hosne Ara Begum, Dr. Abu Bakr Siddique, Dr.-Ing. Thomas Stegmaier, Effect of Oil and Oil-Free Emulsion on Jute Fiber Processing and Yarn Properties, International Journal of Scientific & Technology Research, Volume-10, Issue-04, April 2021.
2. Md. Ariful Islam, Hosne Ara Begum, Md. Abdus Shahid & Ayub Ali, Antibacterial electrospun nanofibers from poly(vinyal alcohol) and Mikania micrantha with augmented moisture properties: formation and evaluation, The Journal of The Textile Institute, 2020
3. Hosne Ara Begum, Toufiqua Siddiqua, Abul Kalam Mohammad Mazed, Abu Bakr Siddique, Modification of Adapter in Auto Cone Winding Machine for Better Performance, International Journal of Recent Technology and Engineering, Volume-8 Issue-6, March 2020.
4. Md. Khalilur Rahman Khan, Hosne Ara Begum, Modification of Drafting Zone of Jute Flyer Spinning Frame to Improve the Jute Yarn Quality, European Scientific Journal, Volume 16, No. 27, September 2020
5. Hosne Ara Begum, A.K.M. Monjurul Haque, Md. Didarul Islam, M. Mehedi Hasan, Suza Ahmed, Md. Razzak, Ruhul Amin Khan, Analysis of the Adsorption of Toxic Chromium(VI) by Untreated and Chitosan Treated Banana and Areca Fiber, Journal of Textile Science and Technology, Volume 6, 2020
6. Md. Khalilur Rahman Khan, Hosne Ara Begum, Md. Razib Sheikh, An Overview on the Spinning Triangle Based Modifications of Ring Frame to Reduce the Staple Yarn Hairiness Journal of Textile Science and Technology, 6, 2020
7. Hosne Ara Begum, Md. Saitham Al Sagir Rakine, Sadman Ahmed Khan, Md, Khalilur Rahman Khan, Investigating the Interactive Effect of Card Cylinder Speed and Roller Gauge Settings of Breaker Drawing on Combed Yarn Evenness and Imperfections Advances in Applied Sciences, Volume 4, Issue 3, June 2019
8. Jamal Hossen, Hosne Ara Begum, Md. Moslem Uddin, Mohammed Tajul Islam, Md. Masfiqul Islam, Investigating the Physical Properties of Treated and Untreated Jute Fiber-Polyester Composities, Asian Journal of Textiles 2018
9. Hosne Ara Begum, Md, Khalilur Rahman Khan, Md. Merajur Rahman An Overview on Spinning Mechanism, Yarn Structure and Advantageous Characteristics of Vortex Spun Yarn and Fabric, Advances in Applied Sciences, Volume 3, No. 5, 2018
10. Hosne Ara Begum, Md, Khalilur Rahman Khan, Study on the Various Types of Needle Based and Needleless Electrospinning System for Nanofiber Production, International Journal of Textile Science, Issue 6, 2017
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12. Zahidul Islam, A.N.M Mashudur Rahman HosneAra Begum, Comparative Study of Areca Fiber Reinforced Polyester Composite and Plywood, European Scientific Journal, October 2018.

13. Hosne Ara Begum, Md. Ramiz Howlader, Md. Abu Bakr Siddique, AyubNabi Khan, Investigation of Functional Properties Changing in Different Chemical Treatment of Various Cellulosic Fiber using FTIR, Saudi Journal of Engineering and Technology, Volume-2, Issue-7, Page 280-285.
14. Mohammad Billal Hossain, Dr. Hosne Ara Begum, The Effect of Chemical Treatment on Tensile Strength and Weight of Banana Stem fiber after Treating with Various Chemical, IOSR Journal of Dental and Medical Science, Vol 16, Issue 7 Ver IV, July 2017.
15. Tipu Sultan, Hosne Ara Begum, Effect of Carding Ratio of Jute Finisher Card on Processing Performance and Sliver Quality, International Journal of Textile Science, 2017, 6(4):99-104.
16. Mohammad Billal Hossain, Dr. Hosne Ara Begum, American Journal of Engineering Research, 2017, Volume 6, Issue 1, 322-327.
17. H.A Begum and C. Karmoker , A Novel Technique to use Waste Jute Fibre as a Blend Component with Polyester. Bangladesh Journal of Physics .Vol. 18. Dec 2015.
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19. H. A Begum, M.M. Helali, A way to Reduce Friction between Ring and Traveler of a Spinning Frame, Bangladesh Journal of Scientific and Industrial Research 47(4),421-426,2012.
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1. Hosne Ara Begum, "Contribution of Textiles and Clothing Industry on Socio-Economic Development of Bangladesh."Arranged by ITET, Dhaka Bangladesh, 2014.
2. Hosne Ara Begum, A New Spinnable Fiber in Asian Region." Arranged by ICTA, Dhaka Bangladesh, 2010
3. Reajul Islam , Hosne Ara Begum, Analysis of the Physico- Mechnical Properties of Jute Polypropylene Blended Yarn, International Conference on Mechanical Industrial and Materials Engineering ICMIME 2015 MS-17 (104) 2015, RUET, Rajshahi, Bangladesh.
4. Hosne Ara Begum Abu Bakr Siddique, Md. Maksud Helali, Effect of Frequency and Amplitude of Vibration on Ring-Traveller Friction of Ring Spinning Frame International Conference on Mechanical Industrial and Materials Engineering ICM IME 2013 AM-05 (114-119) 2013, RUET, Rajshahi, Bangladesh.
5. 5. H. A Begum, M.M. Helali, Application of vibration for Reduction of Ring – Traveller Friction of a ring Spinning Frame, International Conference on Mechanical Engineering ICM E11-AM-044, 2011(18-220 December) Bangladesh

Book Chapter

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Dr. Md. Reajul Islam

Associate Professor

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Toufiqua Siddiqua

Assistant Professor

ϖ Statistical Analysis of Properties of Compact Yarn Produced from Different Process; Toufiqua Siddiqua, Md. Alimur Reza and Habiba Altaf; European Scientific Journal; April 2019 edition
ϖ Analysis of Ring Yarn Properties Manufactured from Different Traveller Brands; Toufiqua Siddiqua, S. M. Farhana Iqbal; European Scientific Journal; Vol 15, No 18 (2019).

ϖ Optimization Of Raw Material Mixing In Rotor Spun Yarn Using Analytical Hierarchy Process, Shahriar Raian, Toufiqua Siddiqua, Md. Lutfor Rahman Shanzid, Tanzeena Refat Tumpa, International Journal of Scientific & Technology Research, Volume 8, Issue 11, November 2019.

ϖ Modification of Adapter in Auto Cone Winding Machine for Better Performance, Hosne Ara Begum, Toufiqua Siddiqua, Abul Kalam Mohammad Mazed, Abu Bakr Siddique, International Journal of Recent Technology and Engineering, Volume-8 Issue-6, March 2020.

ϖ Effect Of Oil And Oil-Free Emulsion On Jute Fiber Processing And Yarn Properties, Toufiqua Siddiqua, Dr. Hosne Ara Begum, Dr. Abu Bakr Siddique, Dr.-Ing. Thomas Stegmaier, International Journal of Scientific & Technology Research, Volume-10, Issue-04, April 2021.

Dr Ahmed Jalal Uddin

Assistant Professor

1. B. Uddin, **Ahmed Jalal Uddin (Corresponding author)**. *A Sustainable Approach to Manufacture Mélange Yarn from Waste Jute Fiber and Pre-consumer Cotton Fabric Waste Using I-optimal Mixture Design. Journal of Cleaner Production. In press (*https://doi.org/10.1016/j.jclepro.2023.138376). **[Impact factor: 11.01].**
2. M. Reza, H. A Begum, Ahmed Jalal Uddin **(Corresponding author)**. *Potentiality of sustainable corn starch-based biocomposites reinforced with cotton filter waste of spinning mill*. ***Heliyon***(2023). **[Impact factor: 3.776].**
3. R. Islam., R. Mia, **Ahmed Jalal Uddin (Corresponding author)**. *Investigation of the performance of okra fiber in woven fabric*. ***Heliyon***8, no. 4 (2022): e09307. **[Impact factor: 3.776].**
4. Rahman, **Ahmed Jalal Uddin (Corresponding author)**. *Unusable cotton spinning mill waste: A viable source of raw material in paper making*. ***Heliyon***8, no. 8 (2022): e10055. **[Impact factor: 3.776]**

5. I. Islam, M. I. Islam, Ahmed Jalal Uddin **(Corresponding author)**. *Enhancing the quality of elastane-cotton core yarn by compact spinning.**Heliyon*** **8**, no. 6 (2022): e09562. **[Impact factor: 3.776]**
6. Arafat, Ahmed Jalal Uddin **(Corresponding author)**. *Recycled fibers from pre-and post-consumer textile waste as blend constituents in manufacturing 100% cotton yarns in ring spinning: A sustainable and eco-friendly approach.**Heliyon*** 8, no. 11 (2022): e11275. **[Impact factor: 3.776]**
7. A. Rahim, S. Rahman, **Ahmed Jalal Uddin (Corresponding author)**. *Low-bagging (growth) stretch denim yarn production by spinning optimization of cotton-wrapped dual-core elastane and T400 multifilament.**Heliyon*** (2023). **[Impact factor: 3.776]**
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9. **Ahmed Jalal Uddin**, J. Araki, Y. Gotoh. *Toward "Strong" Green Nanocomposites: Polyvinyl Alcohol Reinforced with Extremely Oriented Cellulose Whiskers*, ***Biomacromolecules,*** 12, 617–624, 2011 **[Impact factor: 6.988].**
10. Xu, **Ahmed Jalal Uddin**, K. Aoki, Y. Gotoh, T. Saito, M. Yumura. *Fabrication of High Strength PVA/SWCNT Composite Fibers by Gel Spinning*, ***Carbon*** 48, 1977-1984, 2010 **[Impact factor: 9.59].**
11. **Ahmed Jalal Uddin**, J. Araki, Y. Gotoh*; Characterization of the Poly(vinyl alcohol)/Cellulose Whisker Gel Spun Fibers*, ***Composites: Part A*** 42, 741–747, 2011 **[Impact factor: 7.664].**
12. **Ahmed Jalal Uddin**, Watanabe A, Y Gotoh, Saito T, Yumura M. *From "Strong" to "Much Stronger": Utilization of Green Tea Extract Dispersant for SWCNT-reinforced Polymer Composites.* ***Macromolecular Material and Engineering,*** 297, 1114–1123, 2012 **[Impact factor: 4.367].**
13. **Ahmed Jalal Uddin**, Araki J, Fujie M, Sembo S, Gotoh Y. *Interfacial Interaction and Mechanical Properties of Chitin Whiskers/PVA Gel-spun Nanocomposite Fibers*, ***Polymer International*** 2012, 61, 1010-1015, 2012 **[Impact factor: 2.99].**
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16. **Ahmed Jalal Uddin**, T. Narusawa, Y. Gotoh. *Enhancing Mechanical Properties of Gel-Spun Polyvinyl Alcohol Fibers by Iodine Doping.* ***Polymer Engineering and Science***, 51, 647-653, 2011 **[Impact factor: 2.428].**
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18. **Ahmed Jalal Uddin**, Jun Araki, Y. Gotoh, M. Takatera. *A Novel Approach to Reduce Fibrillation of PVA Fibres Using Cellulose Whiskers*, ***Textile Research Journal*** 81, 447–458, 2011 **[Impact factor: 1.82].**

19. **Ahmed Jalal Uddin**, Atsushi Yamamoto, Y. Gotoh, M. Nagura, M. Iwata. *Preparation and Physical Properties of Regenerated Cellulose Fibres from Sugarcane Bagasse*, ***Textile Research Journal*** 80, 1846-1858, 2010 **[Impact factor: 1.82].**
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21. **Ahmed Jalal Uddin**, N. Katayama, Y. Ohkoshi, Y. Gotoh, M. Nagura. Controlling the Mechanical Properties of Poly(L-lactide-e-caprolactone) Monofilament Sutures by an Acetone / Water Treatment, ***Journal of Polymer Science: Part B: Polymer Physics***, 40, 2449-2462, 2002 **[Impact factor: 2.838].**
22. **Ahmed Jalal Uddin**, Y. Ohkoshi, Y. Gotoh, M. Nagura, T. Hara; Influence of Moisture on the Viscoelastic Relaxations in Long Aliphatic Chain Contained Semi-aromatic Polyamide, (PA9-T) Fiber, ***Journal of Polymer Science: Part B: Polymer Physics***, 41, 22, 2878-2891, 2003 **[Impact factor: 2.499].**
23. **Ahmed Jalal Uddin**, Ohkoshi, Y. Gotoh, M. Nagura, R. Endo, T. Hara; Melt Spinning and Laser-Heated Drawing of a New Semi-Aromatic Polyamide, PA9-T Fiber, ***Journal of Polymer Science: Part B: Polymer Physics***, 42, 433-444, 2004 **[Impact factor: 2.499].**
24. **Ahmed Jalal Uddin**, Y. Gotoh, Y. Ohkoshi, M. Nagura, R. Endo, T. Hara; *Hydration in a New Semiaromatic Polyamide PA9-T Observed by Humidity-Controlled Dynamic Viscoelastometry and WAXD*, ***Journal of Polymer Science: Part B: Polymer Physics***, 43, 1640-1648, 2005 **[Impact factor: 2.499].**.
25. **Ahmed Jalal Uddin**, Y. Mashima, Ohkoshi, Y. Gotoh, M. Nagura, A. Sakamoto, R. Kuroda; *Drawing Behavior and Characteristics of Laser Drawn Polypropylene Fibers*, ***Journal of Polymer Science: Part B: Polymer Physics***, 44, 398-408, 2006 **[Impact factor: 2.499].**
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27. Yamamoto, **Ahmed Jalal Uddin**, Y. Gotoh, M. Nagura, M. Iwata. *Dry Jet-Wet Spinning of Bagasse/N-methylmorpholine-N-oxide Hydrate Solution and Physical Properties of Lyocell Fibres*, ***Journal of Applied Polymer Science***, 119, 3152–3161, 2011 **[Impact factor: 3.125].**

Md. Masum Reza

Assistant Professor

1. **Masum Reza**, Hosne Ara Begum, Ahmed Jalal Uddin. Potentiality of Sustainable Corn Starch-based Biocomposites Reinforced with Cotton Filter Waste of Spinning Mill. **Elsevier**, **Heliyon** (**IF 3.776**, **Q1,** SCI, Scopus, Volume 9, Issue 5, April, 2023).
2. Mohammad Naim Hassan, Moni Sankar Mondal, Naimul Hasan, **Md Masum Reza**, Md Ishtiaque Rahman, Joy Sarkar, Nourin Mohsin, Rafat Mahmud Hridoy, Dr Ahmed Jalal Uddin. Evaluation of physico-mechanical properties of naturally dyed betel-nut leaf plate (BLPF) – Banana blended fabric. **Elsevier**, **Heliyon** (**IF 776**, **Q1,** SCI, Scopus, Volume 9, Issue 2, February 2023)
3. **Masum Reza**, Mohammad Nayemul Islam, Sharif Ahmed, Mohammad Naim Hassan. Effect of Changing Front Top Roller Pressure of Drafting Zone of a Ring Frame on the Quality of Cotton-Flax Blended Yarn. Journal of Textile Science and Technology, Volume 08(01), 25-34, January 2022.

4. Mohammad Shariful Alam, Al-Amin Hasan Ronee and **Masum Reza**-Effect of cylinder speed of carding machine on card waste and card sliver quality, Research Journal of Engineering Sciences, Volume 7, Issue 9, 1-6, October 2018.

Md. Rubel Khan

Assistant Professor

- Implementation of jute-based nose holder in surgical masks to reduce plastic contamination, May 2023, Heliyon 9(6):e16434, DOI:10.1016/j.heliyon.2023.e16434
- Challenges of textile waste composite products and its prospects of recycling, February 2023, Journal of Material Cycles and Waste Management 25(3), DOI: 10.1007/s10163-023-01614-x
- Double air suctioned carding process: A method for achieving improved quality ring-spun carded yarn, January 2023Heliyon 9(5):e13096,DOI: 10.1016/j.heliyon.2023.e13096
- Comparative Analysis of Production Processes and Quality Parameters of Two Different Semi-Combed Yarns, January 2023Journal of Natural Fibers 20(1):2163333 , DOI: 10.1080/15440478.2022.2163333
- Compact Spinning in Cotton-based Core-spun Yarn: A Review, October 2021European Scientific Journal 17(37):287,DOI: 10.19044/esj.2021.v17n37p287
- Investigation of Fiber Length Change In Different Stages Of Ring Spinning Process, July 2021, European Scientific Journal Volume: 17,No. 25, Natural /Life/Medical Science:66Following, DOI: 10.19044/esj.2021.v17n25p66
- A Fuzzy Logic Based Approach towards Sales Forecasting: Case Study of Knit Garments Industry, March 2020, Conference: Proceedings of the International Conference on Industrial Engineering and Operations Management (2020) 0(March) 345-352

Farhad Mahmud Chowdhury

Assistant Professor

• Farhad Mahmud Chowdhury and Abu Yousuf Mohammad Anwarul Azim-Qualitative Analysis of Blend Yarn: Blend Method Analysis, Journal of Textile Engineering (Dhaka), Volume, TE 02, Issue-1, and July 2015.

• Mohammed Farhad Mahmud Chowdhury, Dr. Hosne Ara Begum and Firoze Khandorker “Study on the Performance of Electronic Yarn Clearer." American Journal of Engineering Research (AJER) 6.8 (2017): 157-162.

• Md. Riazul Hoque, Md. Rokonuzzaman, Joykrisna Saha and Mohammed Farhad Mahmud Chowdhury “Improvement of Carded Yarn Quality by Changing Ring Frame Break Draft for Different Short Fibre Index.” European Scientific Journal December 2017 edition Vol.13, No.36.

• Mohammed Farhad Mahmud Chowdhury and Md. Zayedul Hasan "Speed Triangle Analysis of Added Irregularity.” IOSR Journal of Polymer and Textile Engineering (IOSR-JPTE), vol. 5, no. 1, 2018, pp. 01-04.

Publication of Book

• Manual of Short Staple Spinning, Granthonir Publication, March 2016.

• Manual of Short Staple Spinning, Volume - II, University Campus, September 2017.

Research Grants:

1. University Grant Commission (UGC), Ref-UGC/Budget/4/2017-3971,
“Designing and development of a prototype carding machine”,

Co-supervisor, BDT 256,000, Year 2018 – 2019.
2. Bangladesh University of Textiles (BUTEX), Memo-BUTEX/2019/RnE/004, "Development of a low cost Dust and Noise measuring device and investigating the present environmental condition of spinning and weaving industry in Bangladesh",
Co-supervisor, BDT 150,000, Year 2019-2020.

Md. Bashar Uddin

Assistant Professor

1. **Md Bashar Uddin**, Ahmed Jalal Uddin. A sustainable approach to manufacture mélange yarn from waste jute fiber and pre-consumer cotton fabric waste using I-optimal mixture design. Journal of Cleaner Production, 2023, P-138376, ISSN 0959-6526, https://doi.org/10.1016/j.jclepro.2023.138376.
2. Ehsanur Rashid, Raihan Ul Haque, Md. Rubel Khan, **Md. Bashar Uddin**, Zahidul Islam Khan, Md Atikul Islam, Towfik Aziz Kanon, Md. Washique Tonmoy. Implementation of jute-based nose holder in surgical masks to reduce plastic contamination. Heliyon, VOLUME 9, ISSUE 6, E16434, JUNE 2023, https://doi.org/10.1016/j.heliyon.2023.e16434.
3. **Md Bashar Uddin**, Anupam Deb Nath, Kazi Sowrov, Hosne Ara Begum. Fabrication and characterization of jute-covered core-spun yarn produced on flyer-spinning frame. Textile and Leather Review, 2022, Volume 5, Pages, 414-429, https://doi.org/10.31881/TLR.2022.60.
4. Md Abu Sayed, **Md Bashar Uddin**, Hosne Ara Begum. Comparative Study of Cotton Yarn Properties Using Central-Fan and Multi-Fan for Vacuum Generation in Aerodynamic Compact Spinning Systems. Textile & Leather Review. 2022; 5:240-252. https://doi.org/10.31881/TLR.2022.28

Mr. Tanvir Mahady Dip

Lecturer

(1) Rahman, M.; Mahady Dip, T.; Padhye, R.; Houshyar, S. Review on Electrically Conductive Smart Nerve Guide Conduit for Peripheral Nerve Regeneration. *J. Biomed. Mater. Res. A* **2023**, *n/a* (n/a), 1–35. https://doi.org/10.1002/jbm.a.37595.

(2) Rahman, M.; Dip, T. M.; Haase, T.; Truong, Y. B.; Le, T. C.; Houshyar, S. Fabrication of Zein-Based Fibrous Scaffolds for Biomedical Applications—A Review. *Macromol. Mater. Eng.* **2023**, *n/a* (n/a), 2300175. https://doi.org/10.1002/mame.202300175.

(3) Khan, Md. R.; Dip, T. M.; Rashid, Md. E.; Haque, R. U.; Neloy, F. K.; Salehin, S. M. M.; Galib, S.; Sayem, A. S. M. Comparative Analysis of Production Processes and Quality Parameters of Two Different Semi-Combed Yarns. *J. Nat. Fibers* **2023**, *20* (1), 2163333. https://doi.org/10.1080/15440478.2022.2163333.

(4) Sikdar, P.; Dip, T. M.; Dhar, A. K.; Bhattacharjee, M.; Hoque, Md. S.; Ali, S. B. Polyurethane (PU) Based Multifunctional Materials: Emerging Paradigm for Functional Textiles, Smart, and Biomedical Applications. *J. Appl. Polym. Sci.* **2022**, *139* (38), e52832. https://doi.org/10.1002/app.52832.

(5) Sikdar, P.; Uddin, M. M.; Dip, T. M.; Islam, S.; Hoque, M. S.; Dhar, A. K.; Wu, S. Recent Advances in the Synthesis of Smart Hydrogels. *Mater. Adv.* **2021**, *2* (14), 4532–4573. https://doi.org/10.1039/D1MA00193K.

(6) Dip, T. M.; Emu, A. S.; Nafiz, M. N. H.; Kundu, P.; Rakhi, H. R.; Sayam, A.; Akhtarujjman, M.; Shoaib, M.; Ahmed, M. S.; Ushno, S. T.; Asheque, A. I.; Hasnat, E.; Uddin, M. A.; Sayem, A. S. M. 3D Printing Technology for Textiles and Fashion. *Text. Prog.* **2020**, *52* (4), 167–260. https://doi.org/10.1080/00405167.2021.1978223.

(7) Dip, T. M.; Begum, P. D. H. A.; Hossain, M. A. A.; Uddin, M. M.; Faruque, M. O. Analysis of Physico-Mechanical Properties of Jute and Polyester Blended Yarn. *Int. J. Sci. Res. Manag. IJSRM* **2018**, *6* (09), 2018–2085. https://doi.org/10.18535/ijsrm/v6i9.ec02.

Book Chapters

(1) Shahid, M. A.; Dip, T. M.; Tanni, T. R.; Babaarslan, O. 4 - Natural Fiber: Twistless and Core Spun Yarn. In *Multiscale Textile Preforms and Structures for Natural Fiber Composites*; Midani, M., Hamouda, T., Hassanin, A. H., Seyam, A.-F. M., Eds.; Woodhead Publishing Series in Composites Science and Engineering; Woodhead Publishing, 2023; pp 87–118. https://doi.org/10.1016/B978-0-323-95329-0.00001-6.

(2) Uddin, M. M.; Dip, T. M.; Sharma, S. Wearable Nanogenerators. In *Nanogenerators*; CRC Press, 2022; pp 185–286. https://doi.org/10.1201/9781003187615-10

Department of Fabric Engineering

Since the department of Fabric Engineering is responsible for developing fabric expert so that they can renovate, shape up and lead the sector with ensured sustainability, we are very careful about its course structure and relevant infrastructure. At present it is offering B. Sc. in Textile Engineering (Fabric) and M.Sc. in Textile Engineering (Fabric). The department at present owns a number of core laboratories. They are Weaving Preparatory Process Lab, Weaving Lab, Knitting Lab, Fabric Structure and Design Lab, Fabric Testing Lab and newly installed CCI lab. To keep pace with the coming market, it is going to set up full scale Non-wovens Lab soon. All the laboratories are well equipped and arranged in an order such that students gradually come up with the technologies and develop confidence so that they can exploit the technologies to bring out the best while they are in the professional life. Besides the in-house laboratory, we keep close contact with the industries and make frequent visits with students.

Vision

The Department of Fabric Engineering is visionary to contribute textile sector by research and knowledge development.

Mission

- Providing updated curriculum that keeps pace with the latest textile technology.
- Introducing innovative educational practices and multi-disciplinary research activities through the entity.
- Provide visionary leadership and collaborative services to the university, country and global communities.
- Provide knowledge based technological services to satisfy the needs of society and industry.
- Emphasis on the development of communication, behavior, attitude and presentation skill of the graduates.
- Engaging in worldwide co-operation with direct and close contacts among scientific institutions outside of the academic community, industries and cultural institutions.

DEGREE OFFERED

B. Sc. in Textile Engineering (Fabric)

- Number of Seats: 80
- Number of Semester: 08 (6 months each)
- Total Credit: 166

M. Sc. in Textile Engineering (Fabric)

- Number of Seats: 15
- Number of Semester: 03 (6 months each)
- Total Credit: 36

PhD in Textile Science & Engineering

Faculty Members

Dr. Shah Alimuzzaman
Professor
Dr. A T M Faiz Ahmed
Associate Professor & Head Dept. of the Department
Mrs. Shilpi Akter
Professor
Dr. Emdad Sarker
Associate Professor
Kazi Sowrov
Assistant Professor
Abdullah Al Faruque
Assistant Professor
Dewan Murshed Ahmed
Assistant Professor
A.K.M. Ashiqur Rahman Mazumdar
Assistant Professor
Faisal Abedin
Assistant Professor
Md. Jawad Ibn Amin
Assistant Professor
Md. Abdullah Al. Mamun
Assistant Professor
Mr. A.N.M. Masudur Rahman
Assistant Professor
Md. Aswad Al Haque Sarker
Assistant Professor
Faisal Ahmed
Assistant Professor
Md. Mohaddesh Hosen

Assistant Professor
Shamima Akter Smriti
Assistant Professor
Md. Reasat Aktar Arin
Lecturer

Officer's

Department Office: FE
Zakia Akter
Administrative Officer
Knitting Lab
Engr. Mir Md. Aminul Iqram
Technical Officer
Engr. Md. Ebrahim Khalil
Technical Officer
Md. Sohrab Hossin
Assistant Technical Officer
Weaving Lab
Md. Khorshed Alam
Assistant Technical Officer
Engr. Md. Tanvir Ahmed Sourov
Assistant Technical Officer
FSD Lab
Md. Abul Kashem
Assistant Technical Officer

Publication & Research

Dr. Shah Alimuzzaman

Professor

- Alimuzzaman, R. H. Gong, and M. H. Akonda, "Nonwoven Polylactic Acid and Flax Biocomposites", Polymer Composites, 2013, Volume 34, Issue 10, Page (1611 – 1619).
- Alimuzzaman, R. H. Gong, and M. H. Akonda, "Impact Property of PLA/Flax Nonwoven Biocomposite", Hindawi Publishing Corporation, Journal of Conference Papers in Materials

Science, Volume 2013, Article ID 136861.

• Alimuzzaman, R. H. Gong, and M. H. Akonda, "Three-Dimensional Nonwoven Flax Fibre Reinforced Polylactic Acid Biocomposites", Polymer Composites, 2014, Volume 35, Issue 7, Page (1244 – 1252).

• Alimuzzaman, R. H. Gong, and M. H. Akonda, "Biodegradability of Nonwoven Flax Fibre Reinforced Polylactic Acid Biocomposites", Polymer Composites, 2014, Volume 35, Issue 11, Page (2094 – 2102).

Kazi Sowrov

Assistant Professor

- Comparative study of woven fabric properties made from regular ring spun, compact & SIRO spun yarn. Journal of Textile Engineering (JTE), IEB; April 2015.
- Comparative Analysis of Ring, Compact and SIRO Spun Yarn. Journal of Textile Engineering (JTE), IEB; April 2015.
- Effect of Elastane on Single Jersey Knit Fabric Properties - Physical & Dimensional Properties. International Journal of Textile Science 2014; 3(1): 12-16

Abdullah Al Faruque

Assistant Professor

- Effect of Elastane on single jersey knit fabric properties - physical & dimensional properties
- Medical Textiles: significance and future prospect in Bangladesh
- Scope of polyester cotton blended single jersey knit fabric finishing without heat setting
- Terry towel in Bangladesh

Faisal Abedin

Assistant Professor

• Effect of Gauge Variation of Circular Knitting Machine on Physical and Mechanical Properties of Cotton Knitted Fabrics

• Investigation on Physico-Chemical Properties of 100% Cotton Woven Fabric Treated with Titanium Dioxide

Shamima Akter Smriti

Assistant Professor

• Prediction of whiteness index of cotton using bleaching process variables by fuzzy inference system", Fashion and Textiles, 2018, 5:4, pp 1-13, publisher: Springer. Indexed in Scopus.

• "Fuzzy modeling for prediction of bursting strength of cotton knitted fabric using bleaching process variables" AATCC Journal of Research, Publisher: AATCC,2019,6(1),pp 29-37.Indexed in: Scopus and ESCI (by Clarivate Analytics, ex-Thomson Reuters).

• 'Comparative enactment of formaldehyde-free and formaldehyde-based cross-linkers on cotton woven fabrics', Tekstilec, Vol- 60(2), page 107-115, 2017. Scopus and Clarivate Analytics indexed.
• "Kinetics and Thermodynamics of Silk Dyeing with Turmeric Extract", AATCC Journal of Research, Publisher: AATCC, 2018, 5(3), pp 8-14. Indexed in: Scopus and ESCI (by Clarivate Analytics, ex-Thomson Reuters).
• "Kinetic Study of Curcumin on Modal Fabric", Tekstilec, 2018, 61(1), pp 27-32. Scopus and Clarivate Analytics Indexed.Investigation on the Changes of Areal Density of Knit Fabric with Stitch Length Variation on the Increment of Tuck Loop Percentages (IOSR Journal of Polymer and Textile Engineering (IOSR-JPTE),VOL:2,Issue 3
• An Exploration on Pilling Attitudes of Cotton Polyester Blended Single Jersey Knit Fabric After Mechanical Singeing, Science Innovation. Vol. 3, No. 1, 2015, pp. 18-21. doi: 10.11648/j.si.20150301.12
• Reflectance Value and Yellowing Propensity on Thermal and Storage Condition of Cotton Fabric Treated with Different Softeners, International Journal of Current Engineering and Technology, (IJCET), eISSN: 2277-4106 | pISSN: 2347-5161, Volume No.5, Issue No.1, pp : 507-511,28 Feb 2015.
• Color Co-Ordinates and Relative Color Strength of Reactive Dye Influenced by Fabric GSM and Dye Concentration, International Journal of Research in Engineering and Technology. (IJRET), eISSN: 2319-1163 | pISSN: 2321-7308, Vol: 4, No. 2, pp. 192-197, February 2015. [Impact factor(ISRA): 2.375, Global impact factor: 0.567)
• Investigate the Relation Among Thickness, Relative Porosity and Air Permeability of Different Types of Knitted Fabrics (International Journal of Current Engineering and Technology,VOL:5,Issue 6 pp3907-3910

Md. Reasat Aktar Arin

Lecturer

He is one of the inventors of BUTEX patent "SEAMLESS JUTE BAGS AND SACKS & THE METHOD THEREOF, PAT. NO. 382/2019, BD PAT. SERIAL NO. 1006510"

Faculty of Textile Chemicals Engineering

There are three departments namely Department of Wet Process Engineering (WPE), Department of Dyes & Chemical Engineering (DCE), and Department of Environmental Science & Engineering (ESE) under this faculty. Initially the Department of WPE was the only member of this Faculty to produce competent graduates for textile finishing industries primarily for textile dyeing, printing, finishing industries. Meanwhile, the activities and requirements of the industry expanded a lot. The industry consume huge amount of dyes and chemicals every year, which may remitting out about $1 billion within the couple of years. To prevent this remittance drainage Bangladesh needs to establish a number of dyes and chemicals manufacturing plants. Last couple of years, there some companies have been started the production units of dyes and chemicals, and others are in the pipeline. Besides, handling the environmental issues related to the textile industries are also another utmost requirements of the industry. Department of DCE and the Department of ESE were established to produce graduates with right knowledge and skills to deal these new needs of the industry. There is another department under this Faculty, Department of Textile Materials Engineering, is going to launch its program very soon targeting the unconventional textile materials and product development.

TThe target of the Faculty is to create the academic, technical and business leaders for today and tomorrow who will employ the skills sets of industrial processes and scientific advances. We believe the Faculty of TCE will be the key to create local industry to support a healthier, cleaner, greener and more efficient textile industry for sustainable development of the industry.

We welcome the talented and visionary teachers and students globally to be the part of our Faculty. We appreciate the multidisciplinary research environment where collaboration is the key; within the departments, faculties, universities and between the industry. The Faculty of TCE works aligning with the vision and mission of BUTEX to be the part of the centre of excellence for textile education and research for the benefit of our country and the society.
I wish to thank you for visiting our Faculty.

Dean

Prof. Dr. Ummul Khair Fatema

Faculty of Textile Chemical Engineering

Department of Wet Process Engineering

The department of Wet Process Engineering was founded in 1960, to meet the increasing demand of know how people in textile dyeing industries of Bangladesh. The graduates from this department obtained top-notch position in their professions. The department reflects the dream and commitment of BUTEX in engaging research activities and collaboration with industry. The academic learning of the department includes strong practical programs such as laboratory experiments, internships, in-house projects, joint projects with industries. The course curriculum embraces fibre-forming polymer engineering, fibre characterization, as well as wet treatment and coloration of different forms of textiles such as fibre, yarn, fabric, and garments, etc. and textile finishing that involved to improve aesthetic and service value of textile goods.
The aim of the department is to promote employ-ability, entrepreneurship, leadership, research aptitude among the students to troubleshoot the industrial problems and developments of new technology without leaving footprint in environment and society.

Vision

The department of Wet Process Engineering (WPE) envisions:
To be a world-class premier academic entity recognized for excellence and innovation, research, education and services in the field of textile wet process engineering and technology.

Mission

The following strategic characteristics and aspiration will enable the WPE department to realize its vision:

- Modernizing of existing education system and curriculum through incorporating outcome-based education system and curriculum along with highly skilled academicians and staff.
- Developing adequate infrastructure facilities to enable smooth running of academic program through ensuring quality.
- Graduating talented, broadly educated engineers to explore, exploit, utilize and conserve available resources for sustainable development of Textile sector.
- Conducting fundamental and applied quality research in the field of chemical processing of textiles like wet preparation, dyeing, printing, finishing and environmental issues related to textile wet treatments.
- Developing breakthrough technologies through local and global collaboration with industries and/or other institution.

DEGREE OFFERED

B. Sc. in Textile Engineering (Wet Process)

- Number of Seats: 80
- Number of Semester: 08 (6 months each)
- Total Credit: 166

M. Sc. in Textile Engineering (Wet Process)

- Number of Seats: 15
- Number of Semester: 03 (6 months each)
- Total Credit: 36

PhD in Textile Science & Engineering

Faculty Members

Dr. Engr. Md. Zulhash Uddin
Professor & Head of the Department
Dr. Sharfun Nahar Arju
Professor
Kawser Parveen Chowdhury
Associate Professor
Rasheda Begum Dina
Associate Professor
Dr. Shekh Md. Mamun Kabir
Associate Professor
Dr. Imana Shahrin Tania
Associate Professor
Piash Shakirul Islam
Assistant Professor
Md. Rashedul Islam
Assistant Professor
Mst. Tania Aktek
Assistant Professor
Emran Hossain
Assistant Professor
Solaiman Bin Ali
Assistant Professor
Md. Motakabbir Hasan (Tomal)
Assistant Professor
Rifat Jahan
Assistant Professor
Tabassum Ferdous
Assistant Professor

Tania Akther
Lecturer
Md. Shohag Babu
Lecturer
Sk. Mohammad Raafi
Lecturer

Officer's

Wet Process Lab

Md. Hossain Shahid Shrwardi
Senior Technical Officer (Textile)
Md. Younus Ali
Technical Officer (Textile)
Md. Babul Akhtar
Assistant Technical Officer
Md. Mozammel Haque
Assistant Technical Officer

Publication & Research

Dr. Engr. Md. Zulhash Uddin

Professor

Dr. Zulhash has been published more than twenty of research article/paper during his service career at home and abroad. His interest is to contribute in generation of quality textile graduates and reduce the involvement of Foreigners' activities at textile industries in Bangladesh and hence improve unemployment problems at Home.

Dr. Shekh Md. Mamun Kabir

Associate Professor

Alkaline weight reduction and dyeing properties of black dope dyed poly(ethylene terephthalate) microfibre fabrics	Coloration Technology, Volume 133, Issue 3, Pages 209-217	28 February 2017, Country: UK	Shekh Md. Mamun Kabir, Joonseok Koh	International Publication	
2.	Investigation of alkaline hydrolysis of phthalimide-based azo dye and its application to after-treatment optimisation for high-fastness dyeing of polyesters	Coloration Technology, Volume 134, Issue 3, Pages 206-213	18 May 2018, Country: UK	Shekh Md. Mamun Kabir, Minyoung Eom, Jieun Lee, Da Eun Chae, Sungchan Baek, Joonseok Koh	International Publication
3.	Effect of chelating agent in disperse dye dyeing on polyester fabric	Fibers and Polymers, Volume 18, Issue 12, Pages 2315-2321	30 December 2017, Country: Switzerland	Shekh Md. Mamun Kabir, Joonseok Koh	International Publication
4.	Application of Jackfruit Latex Gum as an Eco-	Fibers and Polymers, Volume 19,	26 November 2018,	Shekh Md. Mamun Kabir, Sung	International Publication

		friendly Binder to Pigment Printing	Issue 11, Pages 2365-2371	Country: Switzerland	Dong Kim Joonseok Koh	
5.	Novel Approach to Dye Polyethylene Terephthalate (PET) Fabric in Supercritical Carbon Dioxide with Natural Curcuminoid Dyes	Fibers and Textiles in Eastern Europe, Volume 27, Issue 3(135), Pages 65-70		20 April 2019, Country: Poland	Shekh Md. Mamun Kabir, Md. Mahabub Hasan, Zulhash Uddin	International Publication
6.	The use of natural *Areca catechu* dyes for silk and nylon and its halochromic effect	The Journal of The Textile Institute, DOI: 10.1080/00405000.2019.1674542		10 October 2019, Country: UK	Shekh Md. Mamun Kabir, Avik Kumar Dhar & Maitry Bhattacharjee	International Publication
7.	A Comparative Study on Dyeing Properties of Hemp and Cotton Fiber	European Scientific Journal, Volume 13, Issue 33, Pages 378-389		10 November 2017, Country: Portugal	Shekh Md. Mamun Kabir, Rezaul Karim, Khayrul Islam	International Publication
8.	Book Chapter: Dyeing Chemicals Book Name: Chemistry and Technology of Natural and Synthetic Dyes and Pigments	IntechOpen DOI: 10.5772/intechopen.81438		30 November 2018, Country: UK	Shekh Md. Mamun Kabir, Joonseok Koh	International Book
9.	Synthesis of Mono Azo Disperse Dyes and Analysis of Dyeing Behavior with PET Fabric	Bangladesh Journal of Textile Science & Engineering, Volume 1, Issue 1, Pages 7-12 ,		May, 2014	Shekh Md. Mamun Kabir, Zulhash Uddin, Joonseok Koh	National Publication
10.	Disperse dyeing properties of (easy dyeable polyester)/spandex blend	17th World Textile Conference AUTEX 2017 DOI:10.1088/1757-899X/254/8/08202		2017, Country: Greece	M M Rahman, S M Mamun Kabir, H Kim and J Koh	International Conference

11.	Dyeing Properties of (Polyethylene terephthalate)/ Poly (ethylene glycol) Block Copolymer Fibers	13th Asian Textile Conference, ATC-2015	3-6 November 2015, Country: Australia	Shekh Md. Mamun Kabir, Joonseok Koh	International Conference
12.	Book Chapter: Sustainable Textile Processing by Enzyme Applications Book Name: Biodegradation Technology of Organic and Inorganic Pollutants	IntechOpen DOI: 10.5772/intechopen.97198	12 March 2021, Country: UK	Shekh Md. Mamun Kabir, Joonseok Koh	International Book
13.	Sustainable Low liquor ratio dyeing of Cotton with C.I. Reactive Blue 21using dioctyl sodium sulfosuccinate	Textile Research Journal, Volume 91, Issue 9-10, Pages 1083-1093	10th November 2020, Country: USA	Shekh Md. Mamun Kabir, Salauddin Sk, Joonseok Koh	International Publication
14.	Effect of Resin Treatment on the Quality of Cotton Fabric Dyed with Reactive Dye	Fibers and Textiles in Eastern Europe, Volume 26, Issue 1(127), Pages 102-107	28 February 2018, Country: Poland	Imana Shahrin Tania, Shekh Md. Mamun Kabir, Zulhash Uddin	International Publication
15.	The Influence of Natural UV-Absorber (*Areca catechu*) on the UV Protection and Antimicrobial Properties of Silk and Nylon Fabrics	Fibers and Polymers, Volume 22, Issue 2, Pages 382-386	18 January 2021, Country: Switzerland	Shekh Md. Mamun Kabir, Avik Kumar Dhar Joonseok Koh	International Publication
16.	Dyeing of Polyester with 4-Fluorosulfonylphenylazo-5-pyrazolone Disperse Dyes and Application of Environment-Friendly Aftertreatment for Their High Color Fastness	materials, MDPI Volume 12, Issue 24, Pages 4209	14 December 2019, Country: Austria	Sanghyun Yoon, Byunghun Choi, Md. Morshedur Rahman, Santosh Kumar, Shekh	International Publication

				Md. Mamun Kabir, Joonseok Koh	
17.	Antimicrobial Performance of silver-copper-zeolite microparticle treated organic cotton fabric using versatile methods	Surface Innovations, Volume 11, Issue 4, Pages 223-230	13 May 2022, Country: UK	Salauddin Sk, Rony Mia, Ejajul Hoque, Bulbul Ahmed, Jawad Ibn-Amin, Shekh Md. Mamun Kabir, Sakil Mahmud	International Publication
18.	Investigating the Functional and Comfort properties of Face Mask based on a Coolmax Blended Cotton Fabric	Fibers and Textiles in Eastern Europe, Volume 30, Issue 3, Pages 102-110	12 October 2022, Country: Poland	Shekh Md. Mamun Kabir, Md. Mahbub Hasan, AKM Mashud Alam	International Publication
19.	Fabrication of UV-Protective Polyester Fabric with Polysorbate 20 Incorporating Fluorescent Color	polymers, MDPI Volume 14, Issue 20, Pages 4366	16 October 2022, Country: UK	Salauddin Sk, Wasim Akram, Rony Mia, Jian Fang, Shekh Md. Mamun Kabir	International Publication
20.	Recovery of dyes and salts from highly concentrated (dye and salt) mixed water using nano-filtration ceramic membrane	Heliyon, Volume 8, Issue 11, e11543	3 November, 2022	Shekh Md. Mamun Kabir, Hassan Mahmud, Harald Schoenberger	International Publication
21.	Bleaching of Jute-Cotton blend Fabric with peracetic acid for deep dyeing	Journal of Fiber Science and Technology, Volume 77, Issue 4, Pages 146-156	2021, Country: Japan	Shekh Md. Mamun Kabir and J Koh	International Publication
22.	Fastness Properties Improvement of Fluorescent Pigments	Fibers and Textiles, Volume 29, Issue 2, Pages 45-53	10 August 2022, Country: Czech Republic	Md. Khyrul Islam, Shekh Md. Mamun Kabir, Md. Dulal Hosen, Md. Azharul Islam	International Publication
23.	DBU-Intercalated γ-titanium phosphate as a thermal latent catalyst in	RSC Advances, Volume 2023, Issue	15 March 2023,	Ayumi Fujiwara, Hiroshi Furuya,	International Publication

	the reaction of glycidyl phenyl ether (GPE) and hexahydro-4-methylphthalic anhydride (MHHPA)	13, Pages 8630-8635	Country: UK	Shekh Md. Mamun Kabir, Motohiro Shizuma, Atsushi Ohtaka, Osamu Shimomura	
24.	Photofading mechanism of Reactive Blue Dyes on Cotton against Sunlight and Xenon Arc Lamp	Journal of Textile & Apparel Technology & Management, Volume 11, Issue 4, Pages 1-14	1st October 2020, Country: USA	Shekh Md. Mamun Kabir, SK Mohammad Raafi, Joonseok Koh	International Publication
25.	Process Maximization of Salt Free Reactive Dyeing on Cotton Using Taguchi Approach	Bioresources, Volume 18, Issue 3, Pages 4543-4557	15 May 2023, Country: USA	Shekh Md. Mamun Kabir	International Publication

Md. Rashedul Islam

Assistant Professor

Smart and Multifunctional Fiber-Reinforced Composites of 2D Heterostructure-Based Textiles Journal Name: Advanced Functional Materials, Wiley https://doi.org/10.1002/adfm.202305901	Marzia Dulal, **Md Rashedul Islam**, Saptarshi Maiti, Mohammad Hamidul Islam, Iftikhar Ali, Amr M. Abdelkader, Kostya S. Novoselov, Shaila Afroj, Nazmul Karim	-	-	2023

2	Nanotechnology for High-Performance Textiles: A Promising Frontier for Innovation Journal Name: Chem Nano Mat, Wiley https://doi.org/10.1002/cnma.202300205	Md. Syduzzaman*, Abir Hassan, Habibur Rahman Anik, Mahin Akter, **Md Rashedul Islam***	-	-	2023
3	Highly sensitive and extremely durable wearable e-textiles of graphene/carbon nanotube hybrid for cardiorespiratory monitoring Journal Name: iScience, Cell Press https://doi.org/10.1016/j.isci.2023.106403	Sirui Tan, Shaila Afroj,* Daiqi Li, **Md Rashedul Islam**, Jihong Wu, Guangming Cai, Nazmul Karim,* Zhong Zhao*	26	4	2023
4	Highly Scalable, Sensitive and Ultraflexible Graphene-Based Wearable E-Textiles Sensor for Bio-Signal Detection Journal Name: Advanced Sensor Research, Wiley https://doi.org/10.1002/adsr.202200010	Sirui Tan, **Md Rashedul Islam**, Huixuan Li, Anura Fernando, Shaila Afroj,* Nazmul Karim*	1	1	2022
5	Smart Electronic Textile-Based Wearable Supercapacitors Journal Name: Advanced Science, Wiley https://doi.org/10.1002/advs.202203856	**Md Rashedul Islam**, Shaila Afroj,* Kostya S. Novoselov, Nazmul Karim*	9	31	2022
6	Sustainable Fiber-Reinforced Composites: A Review Journal Name: Advanced Sustainable Systems https://doi.org/10.1002/adsu.202200258	Saptarshi Maiti, **Md Rashedul Islam**, Mohammad Abbas Uddin, Shaila Afroj, Stephen J. Eichhorn, Nazmul Karim*	6	11	2022

7	Fully printed and multifunctional graphene-based wearable e-textiles for personalized healthcare applications Journal Name: iScience, Cell Press https://doi.org/10.1016/j.isci.2022.103945	**Md Rashedul Islam**, Shaila Afroj,* Christopher Beach, Mohammad Hamidul Islam, Carinna Parraman, Amr Abdelkader, Alexander J. Casson, Kostya S. Novoselov, and Nazmul Karim*	25	3	2022
8	The effect of surface treatments and graphene-based modifications on mechanical properties of natural jute fiber composites: A review Journal Name: iScience, Cell Press https://doi.org/10.1016/j.isci.2021.103597	Mohammad Hamidul Islam, **Md Rashedul Islam,** Marzia Dulal, Shaila Afroj, Nazmul Karim*	25	1	2022
9	A Comparative analysis of polyester fabric properties between dyed with Indigo and with disperse dyes Journal Name: Journal of Textile Science and Technology http://doi.org/10.4236/jtst.2021.72007	**Md Rashedul Islam**,* Ummul Khair Fatema	7	2	2021
10	Influence of Natural and Artificial Mordants on the Dyeing Performance of Cotton Knit Fabric with Natural Dyes Journal Name: IOSR Journal of Polymer and Textile Engineering (IOSR-JPTE) http://doi.org/10.9790/019X-06010106	Shuvo Brahma,* **Md Rashedul Islam**, Salima Sultana Shimo, Rasheda Begum Dina	6	1	2019
11	Role of Mercerizing Condition on Physical and Dyeing Properties of Cotton Knit Fabric Dyed with Reactive Dyes	Shuvo Brahma,* **Md Rashedul Islam**, Rasheda Begum Dina	8	4	2018

	Journal Name: International Journal of Current Engineering and Technology, Inpressco				
12	Efficacy of whip roller setting on physical attributes of denim fabric Journal Name: Fashion and Textiles, Springer https://doi.org/10.1186/s40691-017-0106-0	Farial Islam Farha, Fahmida Siddiqa, **Md Rashedul Islam**	4	21	2017
13	Effect of Chemical Concentration on the Pretreatment Performance of Cotton Woven Fabric Journal Name: International Journal of Current Engineering and Technology, Inpressco	**Md Rashedul Islam**, Farial Islam Farha	6	1	2016
14	Evaluating the performance of alkali reductive stripping process of reactive dyes Journal Name: Journal of Fashion Technology and Textile Engineering	Mohammad Gias Uddin, **Md Rashedul Islam**	3	2	2015
15	Effects of reductive stripping of reactive dyes on the quality of cotton fabric Journal Name: Fashion and Textiles, Springer https://doi.org/10.1186/s40691-015-0032-y	Mohammad Gias Uddin,* Md. Mazedul Islam, **Md Rashedul Islam**	2	8	2015

Mst. Tania Aktek

Assistant Professor

Salt free dyeing of cotton fiber-A critical Review" published in International Journal of Textile Science p-ISSN: 2325-0119, e-ISSN: 2325-010, 2017, Volume: 6, Issue: 2, pages: 21-33.

Sk. Mohammad Raafi

Lecturer

1. Raafi, S.M., Arju, S.N., Asaduzzaman, M., Khan, H.H. and Rokonuzzaman, M., 2023. Eco-friendly scouring of cotton knit fabrics with enzyme and soapnut: An alternative to conventional NaOH and synthetic surfactant based scouring. Heliyon.
2. Raafi, S.M. and Fatema, U.K., 2021. Implementation of Pre-Heating System in Stenters for Improving Machine Performance and Increasing Efficiency. Journal of Textile Science and Technology, 7(4), pp.143-151.
3. Kabir, S.M., Raafi, S. and Koh, J., 2020. Photofading Mechanism of Reactive Blue Dyes on Cotton against Sunlight and Xenon-arc lamp. Journal of Textile & Apparel Technology & Management (JTATM), 11(4).

Department of Dyes and Chemical Engineering

The Department of Dyes and Chemical Engineering (DCE), Bangladesh University of Textiles (BUTEX) is one of the most demandable subject in Textile Sector..
The mission of the undergraduate program is to develop students' understanding of the core scientific, mathematical, and engineering principles that form the foundation underlying these processes. The curriculum focuses on fibre-forming polymers, textile chemistry and chemical analysis, and the synthesis of dyes and chemicals. The department also focuses on applying chemicals and colourants in various textile processing such as pretreatment, dyeing, printing, finishing, and pollution control. The target is to create the academic, technical and business leaders for today and tomorrow who will employ the skills sets of industrial processes and scientific advances.
We aspire to create a unique multidisciplinary research environment where collaboration is the key; within the departments, faculties, and industries. The strength of DCE is its people, and we strongly welcome the very best staff, students and researchers from around the country and world to become part of our mission. We encourage exceptional and highly motivated students to consider our range of engaging and stimulating research opportunities to benefit our country and society. The department reflects the vision and commitment of BUTEX in engaging research activities and collaboration with the industry.
Currently, the textile industry is at a critical junction – trying to add more value and localise the input. The chemical industry, with a market of almost $1 billion USD, is mostly input dependent apart from some basic chemicals. It is foreseen that the local chemical industry for textile applications will flourish to reduce the cost and lead time.
We believe a combination of Textile and chemical engineering is the key to making a better tomorrow and Bangladesh.

Vision

> Department of DCE strives to contribute in national and global through knowledge, research, and innovation in synthesis, separation, formulation, and applications of textile dyes and chemicals.

Mission

- Modernization of existing Teaching-Learning system and curriculum through incorporating Outcome-based Teaching-Learning system and curriculum.
- Infrastructure and other necessary facilities such as digital classroom, labs and libraries will be developed to provide better teaching-learning and research environment.
- Develop a Quality Culture through Teaching-Learning, Staff Development, Student Activities and Management system.
- Promote Research and Innovation through strong industry linkage and collaboration with other local and global research and educational institutions.
- Active contribution in policy making within the University, Country and Global.

Objectives

- To provide basic and in-depth knowledge and know-how to the students in the area of color chemistry, textile chemicals, process technology, and applications.
- To provide need-based quality education for the students to meet the industry requirements in local and global.
- To engage students in independent research design and personal development & management through a combination of multidisciplinary course works and research, in combination with seminar, assignment, competition, exhibition and other co-curricular activities.
- Promote students to link-up with local and global textile chemicals and dyestuffs manufacturing companies and industries so that the students can understand the real life application, effectiveness, effects & impacts, and problems.
- Nurture a motivating academic environment through exchange and research collaboration with local and international organizations and professionals.
- Planting social values & responsibilities, justice, environmental awareness, and ethics in the mind of students.

Intended Learning Outcomes

- Know the basic concepts of synthesizing and formulizing the chemicals and colorants used in textile processing.
- Understand the properties and application of textile chemicals, colorants and auxiliaries.
- Know the effects and impacts of textile chemicals, colorants and auxiliaries on environment and ecology.
- Asses and analyze the nature, strength and purity of chemicals.
- Identify and analyze the root causes of problems and probable solutions by using analytical equipment and instruments.
- Comparing and characterizing existing methods, identifying flaws in existing methods, and designing or re-designing of the methods.
- Motivated graduates upholding social values & responsibilities, ethics & justice, and respect to laws and environment.
- Exercise the qualities of scholarly attainment and manners, sense of responsibility and accountability in the familial, professional, and, social environment.
- Demonstrate sound capacity to conduct independent research and deliver effective presentation.
- Extend the frontier of acquired knowledge through further independent learning, and, thus, add to existing knowledge bank.

Degree Offered

B. Sc. in Textile Engineering (Dyes & Chemicals)

- Number of Seats: 40
- Number of Semester: 08 (6 months each)
- Total Credit: 165

PhD in Textile Science & Engineering

Ongoing Research

• Development of eco-friendly natural dyeing process for cotton fabric by waste tea extract (memo no BUTEX/2021/RNE/009)
• Design and development of a laboratory prototype Machine to recycle plastic for filament extrusion
• The dye adsorption capability of Aluminium doped Cobalt-Manganese ferrites synthesised by sol-gel auto combustion methods
• Designing of a prototype carding machine (memo no BUTEX/2021/RNE/009 dated 23/98/2021 and বাটেবি/প্রশা:/১৪০/২০১৬ dated 04/12/2021)
• Fragrance Extraction from recycled natural sources
• Designing and building prototype sample dyeing machine (UGC grant memo no 37-01-0000-073-04-018/2019 dated 11/03/2020)

Faculty Members

Dr. Mohammad Forhad Hossain
Professor & Head of the Department
Dr. Mohammad Abbas Uddin Shiyak
Assistant Professor
Mustafijur Rahman
Assistant Professor
Dr. Sultana Bedoura
Assistant Professor
Nusrat Jahan
Assistant Professor
Kazi Sirajul Islam
Assistant Professor
Md Abul Kalam Aza
Lecturer

Officer
Md. Rowshanuzzaman Kanon
Assistant Technical Officer

Publication & Research

Dr. Mohd. Forhad Hossain

Professor

1) Hossain, M. and Rahman, M. (2021). Preparation and Characterization of the Electrospun Alginate Nanofibers, Journal of Textile Science and Technology.
2) Rahman, M., Uddin, MA.,Shibly, MMH., Hossain, NB., Hossain, MF. and Rigout, M. (2021). Synthesis and Characterisation of Azo-Based Dichlorotriazine Reactive Dye with Halochromic Behaviour, Tekstilec, University of Ljubljana.
3) Md. Mahbubur Rahman, Mohammad Forhad Hossain and Mustafijur Rahman, (2021). Effectiveness of Carbon Electrode Electrolysis Effluent Treatment System in Textile Dyeing, Journal of Textile Science & Fashion Technology.
4) Mustafijur Rahman, Vinit Viduran, Kazi Sirajul Islam, Adnan Maroof Khan, Nusrat Binta Hossain, Mohammad Forhad Hossain and Mohammad Abbas Uddin, (2021). Development of Jute Hybrid Composites for use in the Car Panels, Global Journal of Engineering Sciences.
5) Md. Moynul Hassan Shibly, Mohammad Forhad Hossain, Mustafijur Rahman, Md. Golam Nur (2019). Development of Cost-Effective Menstrual Absorbent Pad with EcoFriendly Antimicrobial Finish, European Scientific Journal.
6) Hossain, M. F. (2019). Wound Care: A Material Solution, Encyclopedia of Renewable and Sustainable Materials; ELSEVIER.
7) Md. Saiful Hoque , Samit Chakraborty, Md. Forhad Hossain , Md. Masud Alam, (2018). Knit Fabric Scouring with Soapnut: A Sustainable Approach Towards Textile Pre-Treatment, American Journal of Environmental Protection.
8) Hossain, M. F. & Gong, R. H. (2016). Silver-loaded Antibacterial Alginate Nanofibres: Preparation and characterization. Journal of Fashion Technology & Textile Engineering.
9) Hossain, M. F., Gong, R. H. & Rigout, M. (2016). Effect of polymer concentration on electrospinning of hydroxypropyl-β-cyclodextrin/PEO nanofibres. The Journal of The Textile Institute.
10) Hossain, M. F., Gong, R. H. & Rigout, M. (2015). Preparation and characterization of poly(ethylene oxide)-loaded hydroxypropyl-β-cyclodextrin nanofibres. Polymers for Advanced Technologies.
11) Hossain, M. F., Gong, R. H. & Rigout, M. (2015). Optimization of the process variables for electrospinning of poly(ethylene oxide)-loaded hydroxypropyl-β-cyclodextrin nanofibres. The Journal of The Textile Institute.
12) Hossain, M. F. (2009). CSR – its influence on Bangladesh textile and apparel industry, Textile Asia.

PATENT:

Mohammad Forhad HOSSAIN, Hugh R. GONG, Lucy BALLAMY (2016). ANTIBACTERIAL NANOFIBRES, US Patent WO2016176495A1.

Dr. Mohammad Abbas Uddin Shiyak

Assistant Professor

Research/Project:

Ongoing Research/Study/Project:

• Co-Author (2021), National Chemical Management Guideline for Textile and RMG Industry, commissioned by BGMEA and Ministry of Commerce in association with GIZ.
• Principal Investigator (2018-2022), Designing of a prototype carding machine (memo no BUTEX/2021/RNE/009 dated 23/98/2021 and বাটেবি/প্রশা:/১৪০/২০১৬ dated 04/12/2021)
• Principal Investigator (2020-2021), Designing and building prototype sample dyeing machine (UGC grant memo no 37-01-0000-073-04-018/2019 dated 11/03/2020),
• Principal Researcher (2021-2022), Design and development of a laboratory prototype Machine to recycle plastic for filament extrusion (memo no BUTEX/2021/RNE/009)
• Co-Researcher (2021-2022), Development of eco-friendly natural dyeing process for cotton fabric by waste tea extract (memo no BUTEX/2021/RNE/009)
• Co-Researcher (2021-2022), The dye adsorption capability of Aluminium doped Cobalt-Manganese ferrites synthesised by sol-gel auto combustion methods (memo no BUTEX/2021/RNE/009)
• Principal Investigator (2019-2021), Fragrance Extraction from recycled natural sources, Research fund grant by BUTEX, University Grants Commission, Bangladesh,
• Team leader (2021-2022) Market Assessment on RMG sector to strengthen its backward linkage and complexity, commissioned by BGMEA under IFC grant

Completed Research/Study/Project:

• Team lead for 'Baseline macro-level information on the chemical and textile industry in Bangladesh' for ZDHC Zero Discharge of Hazardous Chemicals (ZDHC) under UN GEF project
• Research Team lead, Apparel Automation Pulse (Nov 2020 to May 2021) for Shimmy Technologies and Better work Bangladesh, ILO, pilot study for 30 Apparel factories.
• Team leader (2021), Sector Assessment: Leather Goods SMEs of Bangladesh leather B-SkillFUL Phase II Programme, funded by the Embassy of Switzerland in Bangladesh and implemented by Swisscontact
• Postdoctoral Research Associate (Feb 2021- July 2021), Manchester Fashion Institute, Manchester Metropolitan University, UK QR Global Challenges Research Fund 2020/21, Research Capacity Building and Promoting Sustainable Fashion and Textiles Practices in Bangladesh: 1) Zero-Waste apparel production and 2) Material sustainability, circular economy, Life Cycle Analysis (LCA).
• Principal Investigator (2020-2021), Design and Develop a ReKard machine to produce rope from recycled clothing, A commercial contract

Consultancy Work:

• Technical Expert (2019-2021) for 'To Produce a Video Documentary on the Current Status of Textile and Textile Education Sector in Bangladesh and Government's Success in Developing this Sectors' commissioned by Minstry of Textile and Jute
• 'Resource Efficiency Assessment of 7 factories under proposed CETP in Narayanganj' (2021) funded by Bangladesh Knit Dyeing and Exporters Association and DOHWA, Korea.
• 'Advanced Chemical Management program at their 5 supplier factories' (2021) for Gueldenpfennig
• Expert (Oct 2020 to May 2021) on Sound chemicals management e-learning concept with Adelphi and Beuth University of Applied Sciences Berlin, GIZ Fostering and Advancing Sustainable Business and Responsible Industrial Practices in the Clothing Industry in Asia (FABRIC)
• Expert (2021-2023) for FABRIC project (GIZ), for Knowledge on Wastewater Recycling and Reuse in Textile Industry (Workshop and Manual), waste management, ETP operator training.
• Expert (2021-2023) for GIZ Sustainability in the Textile and Leather Sector (STILE) for Environmental Management with a focus on audits in the Textile sector for Laboratory manual and ETP training for operator
• Development of online learning on 'Chemical Management' for Hawassa University in Ethiopia, (Nov 2020 to March 2021) for Institute of Distance Learning, Beuth University of Applied Sciences Berlin
• Consultant, Advanced Chemical management program of Gueldenpfennig for five supplier factories (Feb 2021 to Nov 2021)
• National ESIA in RMG Expert (Nov 2020 to March 2021), in the Team of IPC and CES, Design Study to promote Energy Efficiency in the Industry in Bangladesh, designing credit line for 80 million Euro, provided by KfW to Bangladesh in highly energy-intensive industries such as RMG & Textile, cement, steel, chemical fertiliser, paper & pulp, glass, food & beverages, telecom, and other common technologies.
• Technical expert for Webinar held on "Investment Opportunity in ETP upgradation and ZLD measures in Ready-Made Garments (RMG) sector's value chain under SREUP Credit Line." by GIZ under its SSREU project. 16 January 2021.
• Technical expert for Webinar held on "Investment Opportunity in Energy Efficiency measures in Ready-Made Garments (RMG) sector's value chain under SREUP Credit Line." by GIZ under its SSREU project. 11 January 2021.
• Technical expert (2019-2020), Reduce volume and hazardous level of sludge for selected textile factories (ETPsludge) in 5 factories of Bangladesh, for GIZ.
• Technical expert (2014-17), 'Promoting In-depth Cleaner Production in the Textile Washing/Dyeing/Finishing Sector in Bangladesh' for 35 factories, under IFC PaCT project, funded by the World Bank.

LIST OF PUBLICATIONS:

Journal Article Published:

• U. N. Haq, A Huraira, M. A. Uddin (2021), Physical characteristics of Typha elephantina Roxb. fibre (Hogla) for Textile Application, Journal of Textile Institute. https://doi.org/10.1080/00405000.2021.1981020
• T. M. Dip, M. A. Uddin, ASM Sayem et al. (2021), 3D Printing Technology for Textiles and Fashion, Textile Progress https://doi.org/10.1080/00405167.2021.1978223
• Uddin, M. A., Nazmul Karim, Shaila Afroj (2021), Environmental Impact of Single-Use Personal Protective Clothing https://arxiv.org/abs/2109.01037
• M. Rahman, V. Viduran, K. S., A. M. Khan, M. A. Uddin et al. Development of Jute Hybrid Composites for use in the Car Panels. Glob J Eng Sci. 7(3): 2021. GJES.MS.ID.000661.
• Rahman, M., Uddin, MA.,Shibly, MMH., Hossain, NB., Hossain, MF. and Rigout, M., 2021. Synthesis and Characterisation of Azo-Based Dichlorotriazine Reactive Dye with Halochromic Behaviour. (Accepted) Tekstilec, 64(3). Publisher: Publisher University of Ljubljana, Faculty for Natural Sciences and Engineering.
• M. A. Uddin, Sayem, A.S.M. et. al (2020). Natural Indigo for Textiles: Past, Present, and Future. In: Hashmi, Saleem and Choudhury, Imtiaz Ahmed (eds.). Encyclopedia of Renewable and Sustainable Materials, vol. 2, pp. 803-809, Oxford: Elsevier. https://doi.org/10.1016/B978-0-12-803581-8.11669-8
• Broadbent, P. J., Carr, C. M., Rigout, M., Kistamah, N., Choolun, J., Radhakeesoon, C. L., Uddin, M. Abbas (2018) 'Investigation into the dyeing of wool with Lanasol and Remazol reactive dyes in seawater', Coloration Technology, 134(2), pp. 156–161. doi: 10.1111/cote.12329.
• M. M. K. Akter, U. N. Haq, M Hossain and M. A. Uddin (2021), Textile-Apparel Manufacturing and Material Waste Management in the Circular Economy- Conceptual Model to Achieve Sustainable Development Goals (SDG) 12 for Bangladesh under review
• M. A. Uddin, M. M. Rahman, M. A. Sayem et al. (2021), Natural Colourants for Textiles: A Review, under review
• Uddin, M. A., Datta. S., K. S. Afreen, S. Akter and A. Bandyopadhyay. Assessment of antimicrobial effectiveness of natural dyed fabrics. Bangladesh J. Sci. Ind. Res. 48(3), 179-184, 2013. DOI: http://dx.doi.org/10.3329/bjsir.v48i3.17327
• Datta, S*, Uddin, M. A., K. S. Afreena and A. Bandyopadhyay. Antimicrobial effect of natural dyed fabrics. Journal of Pharmacy & Biological Sciences, IOSR, 2012)
• Uddin, M. A., Datta, S., S. K. Pramanik, M. Abdullah-Al-Shoeb. Natural adsorbents for dye effluent of high strength COD and their microbiological analysis. Chemistry Journal, UK, 2011, Volume 1, p29-35.
• Uddin, M. A., Z. Ahmed ,and S. Datta. Microbiological analysis of medical textiles and effectiveness of antimicrobial finished fabrics. Journal of Primeasia University Studies, 2011, Volume 1, No.1, p1-4
• Uddin, M. A., A. Bandyopadhyay, and S. Datta. Microbiological and Chemical Standardization of water treatment plant. Journal of Primeasia University Studies, 2011, Volume 1, No.1, p 35-42
• Uddin, M. A., A. Bandyopadhyay, and S. Datta. Microbiological and Chemical analysis of treated water from different textile zones around Dhaka city, Bangladesh. Journal of Primeasia University Studies, 2011, Volume 1, No.1, p 5-10
• Datta, S., M. A. Uddin, and A. Bandyopadhyay. Efficacy of antimicrobial finish on cotton fabrics.

Journal of Pure & Applied Microbiology, 2010, Volume 4, No. 2, p 513-516
• Uddin, M.A., Ahmed, Z., and Datta, S. Microbiological analysis of medical textiles and effectiveness of antimicrobial finished fabrics. J. Primeasia University. 1 (1): 1-4 (2011).
• Uddin. M.A., Md. I. Amin, M. H. Khan. Branding Bangladesh with Jute The Golden fiber of Bengal, Bangladesh Textile Today, Vol 1:4, 2008
• Uddin. M.A. Readymade garment industry of Bangladesh: How the industry is affected in post MFA period?, published in http://www.love.com.au/PublicationsTLminisite/publications.htm
• Uddin. M.A., Compliance or Non-compliance in Apparel industry of Bangladesh: at what cost?, Bangladesh Textile Journal, Vol 1:3, 69-72, 2008

Mustafijur Rahman

Assistant Professor

Research/Project

Ongoing Research/Study/Project

• Ph.D. Research on "Nanofibrs Application in Medical Textiles (Nerve Regeneration)" under Center for Materials Innovation and Future Fashion, School of Fashion and Textiles at RMIT University, Australia.
• Co-Investigator "Development of a low cost wireless E-Textile integrated with pulse acquisition and vibration system for heart rate monitoring and body massaging facility" (2019-2021), Research fund grant by BUTEX, University Grants Commission, Bangladesh.
• Academic Supervisor "Implementation of IoT with RFID based tracking system in the garment production process" funded and organized by "Setting Transformation Blueprint Project-Bangladesh Textile Today" (2019-2021).
• Academic Supervisor "Developing a standard operating procedure (SOP) for 100% micro polyester yarn dyeing to improve right-first-time (RFT)%" funded and organized by "Setting Transformation Blueprint Project-Bangladesh Textile Today" (2019-2021).

Completed Research/Study/Project

• Co-Researcher "Development of cost-effective menstrual absorbent pad with eco-friendly antimicrobial finish". (2016-2019) Bangladesh University of Textiles (BUTEX).
• Co-Researcher "Development and morphological analysis of natural nanofibres for biomedical applications". (2016-2020) Bangladesh University of Textiles (BUTEX).
• Principal-Researcher "Development of jute hybrid epoxy composites and its application in car panels". (2016-2018) Bangladesh University of Textiles (BUTEX).
• Co-Researcher "Feasibility study of integrated desizing, scouring and bleaching of cotton woven fabric with H2O2 and investigation of various physical properties with traditionally treated fabric". (2016-2018) Bangaldesh University of Textiles (BUTEX).
• Principal Researcher "Synthesis and application of reactive azo-based halochromic dyes for the implementation as pH sensor on wound dressings", This research work conducted at the University of Manchester in collaboration with Colour Synthesis Solutions Ltd, UK. (2013-2014).

LIST OF PUBLICATIONS:

Journal Articles

• Rahman, M., Uddin, MA.,Shibly, MMH., Hossain, NB., Hossain, MF. and Rigout, M., 2021. Synthesis and Characterisation of Azo-Based Dichlorotriazine Reactive Dye with Halochromic Behaviour. (Accepted) Tekstilec, 64(3), Publisher: Publisher University of Ljubljana, Faculty for Natural Sciences and Engineering.

• Rahman, M.M., Hossain, M.F. and Rahman, M., 2021. Effectiveness of Carbon Electrode Electrolysis Effluent Treatment System in Textile Dyeing. Journal of Textile Science and Fashio Technology, 8(3), Iris Publishers, USA. DOI: 10.33552/JTSFT.2021.07.000690

• Hossain, M.F. and Rahman, M., 2021. Preparation and Characterization of the Electrospun Alginate Nanofibers. Journal of Textile Science and Technology, 7(2), pp.91-100. DOI: 10.4236/jtst.2021.72008

• Ashraf, M., Rahman, M.H. and Rahman, M., 2021. Comparative Study on Antimicrobial Activity of Four Bangladeshi Medicinal Plants Used as Antimicrobial Finishes on Cotton Fabric. Journal of Textile Science and Fashio Technology, 8(3), Iris Publishers, USA. DOI: 10.33552/JTSFT.2021.08.000686

• Rahman, M., Viduran, V., Islama, K.S., Khan, A.M., Hossain, N.B., Hossain, M.F. and Uddin, M.A., 2021. Development of Jute Hybrid Composites for use in the Car Panels. Global Journal of Engineering Sciences, 7(3), Iris Publishers, USA. DOI: 10.33552/GJES.2021.07.000661

• Hossain, M.F., Rahman, M. and Ismail, M., 2021. Investigation of Physio-chemical Properties of the Natural Nanofibrous Functional Wound Dressing. (Under Review), Journal of Natural Fibers.

• Shibly, M. M. H., Hossain, M. F., Rahman, M. and Nur, M. G. (2019) “Development of Cost-Effective Menstrual Absorbent Pad with Eco-Friendly Antimicrobial Finish”, European Scientific Journal, ESJ, 15(36), p. 438. Doi:10.19044/esj.2019.v15n36p438

• Hossain, M. F., Rahman, M. and Nur, M. G. (2017) “Ageing Effects of Na-Alginate/PEO Spinning Solution on Electrospinnability and Morphology of Nanofibres”, European Scientific Journal, ESJ, 13(9), p. 56. DOI: 10.19044/esj.2017.v13n9p56

• Nur, M. G., Hossain, M. F. and Rahman, M. (2016) “Feasibility Study of Integrated Desizing, Scouring and Bleaching of Cotton Woven Fabric with H2O2 and Investigation of Various Physical Properties with Traditionally Treated Fabric”, European Scientific Journal, ESJ, 12(33), p. 26. DOI: 10.19044/esj.2016.v12n33p26

• Rahman, M., Rayyaan, R., Nur, M. G., Saaqib, S. N., & Shibly, M. M. H. (2015). An Exploratory Study on Modern 3D Computerised Body Scanning System and Various Types of Pattern Making Software’s with Their Constructive Implementation in Apparel Industry. European Scientific Journal, ESJ, 11(15). https://eujournal.org/index.php/esj/article/view/5619

• Rahman, M. and Nur, M.G. (2014). Feasible Application of Modern Eco-Friendly Treatment of Wool Fabric before Coloration. International Journal of Scientific and Research Publications, 4(7), p.228. http://www.ijsrp.org/research-paper-0714.php?rp=P312896

• Rahman, M. and Nur, M.G., 2014. Recent Innovations in Yarn Technology: A Review. International Journal of Scientific and Research Publications, 4(6), p.7. http://www.ijsrp.org/research-paper-0614.php?rp=P302771

Dr. Sultana Bedoura

Assistant Professor

Journal Articles

• Xi, H.-W.; Bedoura, S.; Alam Sk, M.; Lim, K. H., Mono-, Di-, Tri- and Tetra-silacyclobutenes: Strain Energy, Hyperconjugation and Ring-Opening Reaction. Polyhedron. (Accepted)
• Bedoura, S. ; Xi, H.-W.; Goh, H.W.; Lim, K. H., DFT/TDDFT Investigation on Donor-Acceptor Triazole-based Copolymers for Organic Photovoltaics. Journal of Molecular Structure, 1248 (2022) 131406. . https://doi.org/10.1016/j.molstruc.2021.131406
• Xi, H.-W. ; Bedoura, S .; Alam Sk, M.; Lim, K. H., The disappearance of the stable slightly bent isomer of germasilaallenes and the appearance of its cyclic isomer. Polyhedron 2020, 192(1), 114821. https://doi.org/10.1016/j.poly.2020.114821
• Bedoura, S. ; Xi, H.-W.; Lim, K. H., Hydrogen Bond nature in Formamide (CYHNH) complexes at their ground and low-lying excited states. Journal of Physical Organic Chemistry 2014, 27(3), 226. https://doi.org/10.1002/poc.3270
• Xi, H.-W.; Bedoura, S .; Lim, K. H., Hydrogen bond and internal rotations barrier: DFT study on heavier group-14 analogues of formamide. Journal of Physical Organic Chemistry 2013, 26 (5), 420. https://doi.org/10.1002/poc.3103
• Tan, S. J.; Xi, H.-W.; Bedoura, S. ; Lim, K. H., DFT study of salicylaldehyde semicarbazone derivatives interaction with copper and the effect of aminic substituent . Inorganica Chimica Acta 2012, 384 (0), 29.https://doi.org/10.1016/j.ica.2011.11.024

Nusrat Jahan

Assistant Professor

Research/Project:

Ongoing Research/Study/Project
• Principal Researcher (2021-2022), The dye adsorption capability of Aluminium doped Cobalt-Manganese ferrites synthesised by sol-gel auto combustion methods (memo no BUTEX/2021/RNE/009)
• Co-Investigator (2019-2021), Fragrance Extraction from recycled natural sources, Research fund grant by BUTEX, University Grants Commission, Bangladesh

Completed Research/Study/Project
• Research Assistant (April 2021- July 2021), Manchester Fashion Institute, Manchester Metropolitan University, UK QR Global Challenges Research Fund 2020/21, Research Capacity Building and Promoting Sustainable Fashion and Textiles Practices in Bangladesh: 1) Zero-Waste apparel production and 2) Material sustainability, circular economy, Life Cycle Analysis (LCA).

LIST OF PUBLICATIONS:

Journal Article

• Hoque, M., Rashid, M.A. and Jahan, N., 2020. Adsorptive Removal of Methylene Blue Dye Coloration from Aqueous Solution by Adsorption Using Jute Wastages.

• Hashi, M.R. and Jahan,N.,2018. Analysis of Topmost Defects in Finishing Department to Ensure the Quality of Readymade Garments in the Apparel Industry

Kazi Sirajul Islam

Assistant Professor

Research/Project:

Ongoing Research/Study/Project

• Principal Author "A Review: Nanomaterials based Additive Manufacturing"

Completed Research/Study/Project

• Co-Researcher "Development of jute hybrid epoxy composites and its application in car panels". (2016-2018) Bangladesh University of Textiles (BUTEX).

• Academic Supervisor "Comparative study between cationic cotton dyeing and conventional dyeing: An approach towards sustainability" funded and organized by "Setting Transformation Blueprint Project-Bangladesh Textile Today" (2019-2021).

Md Abul Kalam Azad

Lecturer

Research / Projects:

Co-Researcher: Current Scenario of Solar Energy Production in Bangladesh and FuturePotentiality. ttps://www.ijser.org/onlineResearchPaperViewer.aspx?Current-Scenario-of-Solar-Energy-Production-in-Bangladesh-and-Future-Potentiality.pdf

Principal-Researcher: Analysis of Compressive Behavior of 3D Woven Carbon -Fiber Reinforced (IM7/Epoxy) Polymer Composites Used in Aerospace, (UoM). https://www.researchgate.net/publication/350791438_Analysis_of_Compressive_Behaviour_of_3D_Woven_Carbon_-Fibre_Reinforced_IM7Epoxy_Polymer_Composites_Used_In_Aerospace.

Department of Environmental Science and Engineering

Department of Environmental Science and Engineering (DoESE) has opened in 2018 to meet the global challenges of present time. Right now the department offers bachelor program for the prospective students with a seat capacity of 40. Currently four batches of students have already been enrolled in four academic sessions.

Vision

To evolve as a center of excellence in knowledge, research and innovation in the field of Environmental Sciences and Engineering focusing on textile sustainability to invigorate competent professionals capable of resolving national and global environmental challenges.

Mission

- Incorporation of outcome based Teaching-Learning system and curriculum.
- Development of infrastructural and digital facilities for better provision, communication, research and maintaining congenial Teaching- Learning domain.
- Conducting need-based research on contemporary industrial environmental issues in association with industries and other educational institutions for innovation and rationalization.
- Organizing and synchronizing national and international events through conferences/workshops/ seminars/ symposia/training programs etc.
- Active contribution to the national and international environmental policy making process.
- Indoctrination of graduates with the necessary skills to be employable in industry, academia and other fields of the environmental development worldwide.
- Creating abilities in graduates to recognize ethical and professional responsibilities in engineering situations and make authenticated judgments.

Graduate Attributes/Generic Skills:

After successful completion of the undergraduate program, a graduate will be able to:

- Apply his/her knowledge of basic sciences, textile technology, and management to identify and solve real-world problems in the textile industry.
- Perform actively and communicate effectively as a member in a multidisciplinary team.
- Use the techniques, skills, and modern engineering tools necessary for textile engineering practices including IT familiarity.
- Possess an understanding of professional, social and ethical responsibility.
- Acquire managerial and entrepreneurial skills.
- Able to become a Future leader in his/her position

- Become a life-long learner by seeking educational and development opportunities in his/her professional life such as pursuing certificate programs and advanced degrees.

Faculty Research

- Our 5 full time faculty members lead research efforts in Textile process control, Textile chemical management, pollution control, sustainable resource management, climate change, environmental economics and policy, environmental health, environmental toxicology, water resource management, waste management, environmental valuation and impact assessment, textile sustainability, bio-based materials development, nanomaterials, waste water treatment, waste to energy, microplastic analysis etc.

DEGREE OFFERED

B. Sc. in Textile Engineering (ESE)

- Number of Seats: 40
- Number of Semester: 08 (6 months each)
- Total Credit: 166

PhD in Textile Science & Engineering

Faculty Members

Dr. Ummul Khair Fatema
Professor
Humayra Akhter Himu
Assistant Professor and Head of the Department
Shuvo Brahma
Assistant Professor
Md. Refat Hossain
Lecturer
Md. Morshedul Haque
Lecturer

Publication & Research

Dr. Ummul Khair Fatema

Professor

1	Implementation of Pre-Heating System in Stenters for Improving Machine Performance and Increasing Efficiency,Sk. Mohammad Raafi, Ummul Khair Fatema, Journal of Textile Science and Technology, Vol.7 No.4 2021 Scientific Research Publishers [**DOI:** 10.4236/jtst.2021.74012]
2	A Comparative Analysis of Polyester Fabric Properties between Dyed with Indigo and with Disperse Dyes,Md. Rashedul Islam, Ummul Khair Fatema, Journal of Textile Science and Technology, Vol.7 No.2, 2021 [**DOI:** 10.4236/jtst.2021.72007]
3	Effect of mesh count on dot design and quality of screen printing in knit fabric, Rasheda Begum Dina, Md Zulhash Uddin, Ummul Khair Fatema, Journal of Textile Engineering & Fashion Technology, Vol 6 (4), 2020 Medcrave [DOI: 10.15406/jteft.2020.06.00240]
4	Mesh opening effect on solid design and quality of screen printing in knit fabric, Rasheda Begum Dina, Md Zulhash Uddin, Ummul Khair Fatema , Journal of Textile Engineering & Fashion Technology, Vol 6 (5) 2020, Medcrave [DOI: 10.15406/jteft.2020.06.00254]
5	Sustainable Supply Chain for sustainable Garments Industry: A case study at Ever Smart BD Ltd. in Bangladesh, Aiasha Siddiqua, Dr.Ummul Khair Fatema, Dr. L M Boral, Faysal Ahammed Akash , International Conference on Sustaining Global Garments Industries, Ahsanullah University of Science and Technology, 2019 , 5 March Bangladesh
6	Carbon fiber: Progress in fabrication from polymeric precursor and it's microstructure for unique application, Dr. Ummul Khair Fatema , 1st national Conference on Sustainable Textile and Apparel Engineering, Department of Textile Engg., Mawlana Bhashani Science and Technology University, **2019** February 23, Bangladesh
4	Sensitivity Analysis of Vinylsulphone and Monochlorotriazine/Vinyl Sulphone Reactive Groups of Reactive Dyes in Dyeing,Sanjida Sultana, Dr. Ummul Khair Fatema Md. Aminul Islam, Journal of Polymer and Textile Engineering, Volume 5, Issue 2, PP 08-15, 2018 [DOI: 10.9790/019X-05020815]
7	Performance Evaluation of Stripping Agents on Bi-Functional Reactive Dyes, Nayon Chandra Ghosh, Dr. Ummul Khair Fatema, Afsana Munni , American Journal of Engineering Research (AJER), Volume-7, Issue-2, pp-250-258, 2018
8	Sensitivity Analysis of Vinyl Sulphone And Bis Monochlorotriazine Reactive Groups of Reactive Dyes, Sanjida Sultana, Ummul Khair Fatema, Md. Aminul Islam, European Scientific Journal , Vol.12 (18) , 337-346, **2016** ESI, Portugal [DOI: 10.19044/esj.2016.v12n18p337]
9	Influence of heat treatment conditions on the structure of hollow carbon fibers prepared from solid PVA fibers using iodine pretreatment, Ummul Khair Fatema, Yasuo Gotoh, Journal of Materials Science, 49(3), 1049-1057, **2014** Springer, USA [DOI:10.1016/j.carbon.2011.01.048]

10	A new electroless Ni plating procedure of iodine-treated aramid fiber, Ummul Khair Fatema, Yasuo Gotoh, Journal of Coatings Technology & Research, 10(3), 451-425, 2013, Springer, USA [https://doi.org/10.1007/s11998-012-9441-7]
11	Iodine-aided palladium-free catalyzation process for durable electroless nickel plating on Kevlar® fiber, Ummul Khair Fatema, Yasuo Gotoh, Surface & Coatings Technology, 206, 3472–3478, 2012, Elsevier B.V. Netherlands [https://doi.org/10.1016/j.surfcoat.2012.02.014]
12	Fabrication of carbon fibers from electrospun poly(vinyl alcohol) nanofibers, Ummul Khair Fatema, Ahmed Jalal Uddin, Keita Ueamura, Yasuo Gotoh, Textile Research Journal, 81(7), 659–672, 2011, Sage USA [DOI:10.1177/0040517510385175]
13	Iodine-aided fabrication of hollow carbon fibers from solid poly(vinyl alcohol) fibers,Ummul Khair Fatema, Chiemi Tomizawa, Masaru Harada, Yasuo Gotoh , Carbon 49, 2158-2161, 2011, Elsevier B.V. Netherlands [https://doi.org/10.1016/j.carbon.2011.01.048]
14	Highly adhesive metal plating on Zylon® fiber via iodine pretreatment,Ummul Khair Fatema, Yasuo Gotoh, Applied Surface Science 258, 883– 889, 2011, Elsevier B.V., Netherlands [https://doi.org/10.1016/j.apsusc.2011.09.020]
15	Metal plating on high performance fibers using iodine, Fiber Preprints, Ummul Khair Fatema, T Ishikawa, Yasuo Gotoh, Japan , 65 (1), 243, 2010, Japan
16	Functionalization of inert textile fibers from polyester and polyolefin's by textile wet processing, Ummul khair Fatema, Volker Rossbach, Rolf-Dieter Hund, Yasuo Gotoh, The 2nd Int. Students Joint Symposium on High-tech Fiber Engg., Nano Fusion Research Group, Shinshu University, Japan, 20-23, **2008,** Japan

Humayra Akhter Himu

Assistant Professor

1. Smriti, S.A., Haque, A.N.M.A., Khadem, A.H., Siddiqa F., Rahman A.N.M.M., Himu H.A., Farzana N., Islam M.A., Naebe M. Recent developments of the nanocellulose extraction from water hyacinth: a review. *Cellulose*(2023). https://doi.org/10.1007/s10570-023-05374-7
2. Dhar, A.K., **Himu, H.A**., Bhattacharjee, M. *et al.*Insights on applications of bentonite clays for the removal of dyes and heavy metals from wastewater: a review. *Environ Sci Pollut Res***30**, 5440–5474 (2023). https://doi.org/10.1007/s11356-022-24277-x
3. Nusrat Jahan, Jannatul Ferdush, Sraboni Ahmed, **Humayra Akhter Himu**, Iffat Ara (2022). Sustainable Dyeing of Jute Fabric with Natural Dye Sources by Cold Pad Batch Technique. Journal of Natural Science and Textile Technology: 1 (1), Vol.1 (1), 35-43, ISSN: 2789-9411. http://182.160.97.198:8080/xmlui/handle/123456789/1417
4. Rafid A. Khan, Md. M. Hasan Jibon, **Humayra A. Himu**, S. Siddika, Abu Mohammad Azmal Morshed and Mohammad Forhad Hossain. Study of the Effectiveness of Water Hyacinth on Textile Dye-House Effluent Treatment: An Eco-friendly Approach. IOSR Journal of

Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402,p- ISSN: 2319-2399.Volume 14, Issue 10 Ser. I (October 2020), PP 28-40. https://doi.org/10.9790/2402-1410012840

Md. Refat Hossain

Lecturer

International Journals:

1. **Hossain, M. R**., Khalekuzzaman, M., Kabir, S. B., Islam, M. B., & Bari, Q. H. (2022). Enhancing faecal sludge derived biocrude quality and productivity using peat biomass through co-hydrothermal liquefaction. *Journal of Cleaner Production*, ***Elsevier*** 130371. **Q1** https://doi.org/10.1016/j.jclepro.2022.130371
2. **Hossain, Md. R**., Khalekuzzaman, M., Bin Kabir, S., Islam, Md. B., & Bari, Q. H. (2022). Production of light oil-prone biocrude through co-hydrothermal liquefaction of wastewater-grown microalgae and peat. *Journal of Analytical and Applied Pyrolysis*, ***Elsevier***, *161*, 105423. **Q1** https://doi.org/10.1016/j.jaap.2021.105423
3. Islam, Md. B., Khalekuzzaman, M., Kabir, S.B., **Hossain, Md. R**., Alam, Md. A., (2022). "Substituting microalgal biomass with faecal sludge for high-quality biocrude production through co-liquefaction: A sustainable biorefinery approach". *Fuel Processing Technology*. ***Elsevier***, 225, 107063. **Q1** https://doi.org/10.1016/j.fuproc.2021.107063
4. Kabir, S.B., Khalekuzzaman, M., Islam, M.B., **Hossain, M.R**., (2022). "Performance optimization of organic solid waste and peat co-liquefaction mechanism for processing sustainable biocrude" *Fuel Processing Technology*, ***Elsevier,*** 231, 107234. **Q1,** https://doi.org/10.1016/j.fuproc.2022.107234
5. Islam, M.B., Khalekuzzaman, M., Kabir, S.B., **Hossain, M.R**., (2022). "Shrimp waste-derived chitosan harvested microalgae for the production of high quality biocrude through hydrothermal liquefaction" *Fuel*, ***Elsevier***, 320, 123906, **Q1**, https://doi.org/10.1016/j.fuel.2022.123906
6. **Hossain, M. R**., and Hassan, K. M. "Geospatial, Statistical and Human Health Risk Assessment of Groundwater Contamination Around Waste Disposal Site at Khulna in Bangladesh", *International Journal of Innovation and Scientific Research*, vol. 49, no. 1, pp. 124-136, June 2020 (ISSN: 2351-8014), http://www.ijisr.issr-journals.org/abstract.php?article=IJISR-20-121-05

Conference Proceedings:

1. **Hossain, Md. R.,** Khalekuzzaman, M., Bari, Q. H., Kabir, S. B., & Islam, Md. B. (2023). Characterizations of peat biomass for subsequent thermochemical conversion. *AIP Conference Proceedings*, 2713(1), 060012. https://doi.org/10.1063/5.0129876
2. Islam, Md. B., Khalekuzzaman, M., Kabir, S. B., & **Hossain, Md. R.** (2023). Characterization of chitosan extracted from shrimp shell waste and its utilization as a flocculant for harvesting of microalgae. *AIP Conference Proceedings*, 2713(1), 060015. https://doi.org/10.1063/5.0129839

3. **Hossain, M. R**., Khalekuzzaman, M., Bari, Q. H., Kabir, S. B., & Islam, M. B. (2022). "Characterizations of peat biomass for subsequent thermochemical conversion" *6th International Conference on Civil Engineering for Sustainable Development (ICCESD 2022)*, 10~12 February, KUET, Khulna, Bangladesh **(ISBN:** 978-984-35-1972-6)
4. Islam, Md. B., Khalekuzzaman, M., Kabir, S.B., **Hossain, Md. R**. "Characterization of Chitosan Extracted from Shrimp Shell Waste and Its Utilization as A Flocculant for Harvesting of Microalgae" *6th International Conference on Civil Engineering for Sustainable Development (ICCESD 2022)*, 10~12 February, KUET, Khulna, Bangladesh (ISBN: 978-984-35-1972-6)
5. **Hossain, M. R**., and Hassan, K. M. (2019). "Risk Assessment of Solid Waste Disposal on Groundwater Quality Around Rajbandh Dumping Site", *Proceedings of the 6th International Conference on Integrated Solid Waste & Faecal Sludge Management in south-Asian Countries (WasteSafe)*, KUET, (ISBN: 978-984-34-6151-3), pp. 35-36
6. **Hossain, M. R**., and Hassan, K. M. (2020). "Statistical and GIS Based Analysis of Physicochemical Parameters of Groundwater Samples Around Rajbandh Dumping Site," *5th International Conference on Civil Engineering for Sustainable Development (ICCESD 2020)*, 7~9 February 2020, KUET, Khulna, Bangladesh, pp.144

Md. Morshedul Haque

Lecturer

Research Profile
Google Scholar: https://scholar.google.com/citations?user=Xw6DZW8AAAAJ&hl=en
ResearchGate: https://www.researchgate.net/profile/Md-Haque-115
Orcid: https://orcid.org/0000-0001-9799-6948

1. Miah, O., Roy, A., Sakib, A.A., Niloy, M.M., **Haque, M.M.,** Shammi, Tareq, S.M. (2023). Diurnal and seasonal variations of pCO2 and fluorescent dissolved organic matter (FDOM) in different polluted lakes. *Environmental Science and Pollution Research.* https://doi.org/10.1007/s11356-023-28878-y
2. Parvin, F., Niloy, N.M., **Haque, M.M.,** Tareq, S.M. (2023). Activated carbon as potential material for heavy metals removal from wastewater. *Emerging Techniques for Treatment of Toxic Metals from Wastewater, 117−* https://doi.org/10.1016/B978-0-12-822880-7.00005-4
3. Choudhury, T.R., Ferdous, J., **Haque, M.M.,** Rahman, M.M., Quraishi, S.B., Rahman, M.S. (2022). Assessment of heavy metals and radionuclides in groundwater and associated human health risk appraisal in the vicinity of Rooppur nuclear power plant, Bangladesh. *Journal of Contaminant Hydrology, 251, 104072.* https://doi.org/10.1016/j.jconhyd.2022.104072
4. **Haque, M.M.,** Nupur, F.Y., Parvin, F, Tareq, S.M. (2022). Occurrence and characteristics of microplastic in different types of industrial wastewater and sludge: A potential threat of emerging pollutants to the freshwater of Bangladesh. *Journal of Hazardous Materials Advances, 8, 100166.* https://doi.org/10.1016/j.hazadv.2022.100166
5. Nahin, M., Shammi, M., **Haque, M.M.,** Tareq, S.M. (2022). Biogeochemistry of the dissolved organic matter (DOM) in the estuarine rivers of Bangladesh–Sundarbans under different anthropogenic influences. *Heliyon, 8, e10228.* https://doi.org/10.1016/j.heliyon.2022.e10228

6. **Haque, M.M.,** Begum, M.S., Nayna, O.K., Tareq, S.M., Park, J.H. (2022). Seasonal shifts in diurnal variations of pCO2 and O2 in the lower Ganges River. *Limnology and Oceanography Letter*. https://doi.org/10.1002/lol2.10246
7. **Haque, M.M**., Sultana, S., Niloy, N.M., Quraishi, S.B., Tareq, S.M. (2022). Source apportionment, ecological and human health risks of toxic metals in road dust of densely populated capital and connected major highway of Bangladesh. *Environmental Science and Pollution Research***,** *29: 37218–37233***.** https://doi.org/10.1007/s11356-021-18458-3
8. Nahin, M., Shammi, M., **Haque, M.M.,** Tareq, S.M. (2022). Investigating dissolved organic matter dynamics in the downstream reaches of the Ganges and Brahmaputra Rivers using fluorescence spectroscopy. *Frontiers in Earth Science*. https://doi.org/10.3389/feart.2022.821050
9. Niloy, N.M., **Haque, M.M.,** Tareq, S.M. (2022). Temporal changes in hydrochemistry and DOM characteristics of the Brahmaputra River: implication to seasonality of water quality**.** *Environmental Science and Pollution Research, 29: 35165–35178***.** https://doi.org/10.1007/s11356-022-18618-z
10. Parvin, F., **Haque, M.M.,** Tareq, S.M. (2022). Recent status of water quality in Bangladesh: A systematic review, meta-analysis and health risk assessment. *Environmental Challenges, 6: 100416***.** https://doi.org/10.1016/j.envc.2021.100416
11. Rahman, M., **Haque, M.M.,** Tareq, S.M. (2021). Appraisal of groundwater vulnerability in South-Central part of Bangladesh using DRASTIC model: An approach towards groundwater protection and health safety. *Environmental Challenges, 5: 100392*. https://doi.org/10.1016/j.envc.2021.100391
12. Niloy, N.M., **Haque, M.M.,** Tareq, S.M., (2021). Characterization of dissolved organic matter at urban and industrial rainwater of Bangladesh by fluorescence spectroscopy and EEM-PARAFAC modelling. Environmental Challenges, *5: 100250*. https://doi.org/10.1016/j.envc.2021.100250
13. **Haque, M.M,** Niloy N.M., Khirul, M.A., Alam, M.F., Tareq, S.M. (2021). Appraisal of probabilistic human health risks of heavy metals in vegetables from industrial, non-industrial and arsenic contaminated areas of Bangladesh. *Heliyon, 7 (2): e06309*. https://doi.org/10.1016/j.heliyon.2021.e06309
14. **Haque, M.M.,** Hossain, N., Zolly, Y.N., Tareq, S.M., (2021). Probabilistic health risk assessment of toxic metals in poultry chicken form the largest production areas of Dhaka, Bangladesh. *Environmental Science and Pollution Research, 28: 51329–51341*. https://doi.org/10.1007/s11356-021-13534-0
15. Niloy, N.M., **Haque, M.M.,** Tareq, S.M., (2021). Characteristics, Sources, and Seasonal Variability of Dissolved Organic Matter (DOM) in the Ganges River, Bangladesh. *Environmental Processes, 8: 593–613*. https://doi.org/10.1007/s40710-021-00499-y
16. **Haque, M.M.,** Niloy, N.M., Nayna, O.K., Quraishi, S.B., Fatema, K.J., Park, J.H., Kim, K.W., Tareq, S.M., (2020). Variability of Water Quality and Metal Pollution Index in the Ganges River, Bangladesh. *Environmental Science and Pollution Research, 27: 42582–42599*. https://doi.org/10.1007/s11356-020-10060-3
17. Niloy, N.M., **Haque, M.M.,** Tareq, S.M., (2020). Fluorescent whitening agents in commercial detergent: a potential marker of emerging anthropogenic pollution in freshwater of Bangladesh. *Environmental Nanotechnology, Monitoring & Management, 15: 100419***.** https://doi.org/10.1016/j.enmm.2020.100419

18. Tareq, S.M., **Haque, M.M.,** Niloy, N.M. (2020). Comment on "Spatiotemporal variations of DOM components in the Kushiro River impacted by a wetland" by Shafiquzzaman et al. 2020. Environmental Science and Pollution Research, *28: 4887–4888*. https://doi.org/10.1007/s11356-020-11098-z
19. Akbor, M.A., Rahman, M.M., Bodrud-Doza, M., **Haque, M.M.,** Siddique, M.A.B., Ahsan, M.A., Uddin, M.K. (2020). Metal Polution in Water and Sediments of the Buriganga River, Bangladesh: An Ecological Risk Perspective. *Desalination and Water treatment, 193: 284-301*. https://doi.org/10.5004/dwt.2020.25805
20. Bodrud-Doza, M., Islam, S.M.D., Hasan, M.T., Alam, F.M., Haque, M.M., Rakib, M.A., Asad, M.A., Rahman, M.A., (2019). Groundwater pollution by trace metals and human health risk assessment in central west part of Bangladesh. *Groundwater for Sustainable Development, 9:10219*. https://doi.org/10.1016/j.gsd.2019.100219
21. Bodrud-Doza, M., Bhuiyan, M.A.H., Islam, S.M.D., Rahman, M.S., **Haque, M.M.,** Fatema, K.J., Ahmed,N., Rakib, M.A., Rahman, M.A. (2019). Hydrogeochemical investigation of groundwater in Dhaka City of Bangladesh using GIS and multivariate statistical techniques. *Groundwater for Sustainable Development, 8: 226-244*. https://doi.org/10.1016/j.gsd.2018.11.008

Faculty of Textile Management & Business Studies

Textile and garments is the largest export oriented sector in Bangladesh. The development of economy of Bangladesh and growth of export are highly dependent on the ability of textile industry to compete internationally with finest products. Cutting edge machinery maintained by skillful engineers are the most important prerequisites for perfect products.

Dean

Prof. Dr. Md. Masum

Faculty of Textile Management
and Business Studies

Department of Textile Engineering Management

The aim of Textile Engineering Management department is to produce highly competent multidisciplinary knowledge based textile graduates. The program is designed in such a way that one can be technically sound as a graduate engineer as well as can develop his managerial skills where both technical and managerial skills give him a strong base of his future engineering career. Currently, we are offering B.Sc in Textile Engineering Management, M.Sc. in Textile Engineering Management and MBA in Textiles. The undergraduate programs help students defining and solving managerial problems with fundamental concepts and practical demonstrations. Besides the basic textile engineering courses, we are focusing on fundamentals of management, marketing, accounting & finance, economics, product development, entrepreneurship, project development and supply chain management in Textile and Apparel industry.
Our M.Sc in Textile Engineering Management is mixed mode program with an extensive research work for industrial & managerial problem solving and exploiting, innovating & discovering of Textile & Apparel business.

Vision

To be a centre of excellence in education, research and professional services through the application of Textile Engineering Management within a global context.

Mission

To graduate innovative and inquisitive Textile Engineers from the department of Textile Engineering Management, who are filled with strong moral virtues of their profession and are able to design, implement, manage and continuously improve systems and applications that are geared to identify and solve problems with technological, economic, legal and managerial dimensions in business, textile industry, government and non-profit settings.

Objectives

- To nurture students with academic excellence through high quality teaching, research, case development, innovative courses and enlightenment of learning.
- Academic leadership in textile engineering education to prepare managers for diverse leadership roles in industry, business, academia and government enterprises.
- To provide managerial talent as well as textile knowledge with risk managing ability, passion for learning and creative thinking and, values in rapidly evolving economic and social environment.
- To establish research program in addressing national and international issues in areas of Textile Engineering Management.

DEGREE OFFERED

B. Sc. in Textile Engineering (Management)

- Number of Seats: 80
- Number of Semester: 08 (6 months each)
- Total Credit: 165

M. Sc. in Textile Engineering (Management & Business Studies)

- Number of Seats: 15
- Number of Semester: 03 (6 months each)
- Total Credit: 36

MBA in Textiles

- Number of Seats: 100
- Number of Semester: 04 (6 months each)
- Total Credit: 48

PhD in Textile Science & Engineering

FACULTY MEMBERS

Dr. Md. Masum
Professor
Dr.Md.Ahashan Habib
Professor &b Head of the Department
Dr. Md. Syduzzaman
Associate Professor
Dr. Md. Nurun Nabi
Assistant Professor
Md. Shayekh Munir
Assistant Professor
Md. Arif Iqbal
Assistant Professor
Marzia Dulal
Assistant Professor
Ahsan Habib
Assistant Professor
Md. Hasan Sheikh
Assistant Professor
Farjana Sakila
Assistant Professor
Maeen Md. Khairul Akter
Assistant Professor
Md. Rezaul karim
Assistant Professor

Asma Ansary Asha
Assistant Professor
Ayesha Siddika Emu
Lecturer
Md. Golam Sarower Rayhan
Lecturer
Forhad Ahmed
Lecturer

Publication & Research

Dr. Md. Masum

Professor

Journal Papers:

1. Masum, M. & Ullah, M. S. (2020). Sustainable Clothing Production in Bangladesh: The Case of Energy Intensity and CO2 Emissions. Journal of Business Studies, 41(1), 1-12.
2. Masum, M. & Mohiuddin, M. (2019). Hasinomics: The Development Model of Bangladesh. Dhaka University Journal of Management, 13(2), 93-108.
3. Masum, M., Ahamed, M.M., & Rahman, M.S. (2019). Analysis of Structural Decomposition of the Textile-Clohting Industry in Bangladesh. Khulna University Business Review, 14(1),10-17.
4. Masum, M. & Inaba, K. (2019). The textile-clothing industry of Bangladesh: A demand-supply review with Asian competitors. Social System Studies, 38(March), 101-135.
5. Masum, M. & Inaba, K. (2018). A role of textile-clothing industry in the economic structure of Bangladesh: An input-output analysis. The Ritsumeikan Economic Review, 67(3), 1-20.
6. Masum, M. (2017). Demand-supply direction of the textile-clothing industry of Asian newly industralized economy South Korea and Bangladesh. The Ritsumeikan Economic Review, 65(4), 289-333.
7. Masum, M. (2016). The Bangladesh textile-clothing industry: A demand-supply review. Social System Studies, 33(September), 109-140.
8. Masum, M., & Islam, M. M. (2014). Analyzing job security of lower and lower middle class employees of textile sector of Bangladesh. Journal of Textile Science and Engineering, 1(1), 27-34.
9. Masum, M., Bhattacharjee, D., & Haque, M. (2013). Performance, effectiveness, consequences of industrial cooperation on textile & garments task force of developing 8 group: Some analytic solutions. PRC Journal, 2(1), 207-220.
10. Masum, M. (2012). Human resource management: How human resources use and utilize the other factors of production and add value to the enterprise vis-à-vis to the national economy. Business Review-Bangladesh, 1(1), 126-134.
11. Masum, M., & Haque, M. (2012). Congenial industrial relations: A solution to RMG workers'frequent unrest. Business Review-Bangladesh, 1(2), 224-231.

International Conference Presentations:

1. The 10th International Conference on the Regional Innovation and Cooperation in Asia, Bangkok, Thailand.
2. The 12th Regional Innovation and Cooperation in Asia Conference, Guangzhou, China
3. The 25th IIOA Conference, New Jersey, USA
4. The 24th IIOA Conference, Seoul, Korea
5. The Korean Association of Economic Systems Research Conference 2017, Seoul, Korea.
6. The 11th Regional Innovation and Cooperation in Asia Conference, Busan, Korea
7. The 22nd Annual International Conference on Advances in Management, Boston, USA
8. The Korean Association of Economic Systems Research Conference 2018, Chuncheon, Korea
9. The 1st International Conference on Economic Structures, Tokyo, Japan
10. The 2nd International Conference on Economic Structures, Nagoya, Japan
11. The 28th PAPAIOS Conference, Osaka, Japan
12. The 27th PAPAIOS Conference, Kochi, Japan
13. The 26th PAPAIOS Conference, Meiji, Japan
14. Economists conference, Chukyo University, Nagoya, Japan
15. International conference on economic theory and policy, Tokyo, Japan.
16. Japan Economic Association conference, Shiga, Japan.

Dr.Md.Ahashan Habib

Professor

Journal Publications:

1. Md. Ahashan Habib, Md. Rezaul Karim, Marzia Dulal, Mohammad Shayekh Munir; "Impact of Institutional Pressure on Cleaner Production and Sustainable Firm Performance *Sustainability*. 2022; 14(24):16748. https://doi.org/10.3390/su142416748
2. Asma Ansary Asha, Marzia Dulal, and Ahashan Habib. "The Influence of Sustainable Supply Chain Management, Technology Orientation, and Organizational Culture on the Delivery Product Quality-Customer Satisfaction Nexus." *Cleaner Logistics and Supply Chain*(2023): 100107. https://doi.org/10.1016/j.clscn.2023.100107
3. Md. Ahashan Habib*, Yukun Bao, Nurun Nabi, Marzia Dulal, Asma Ansary Asha and Mazedul Islam; "Impact of Strategic Orientations on the Implementation of Green Supply Chain Management Practices and Sustainable Firm Performance"; Journal of Sustainability, Volume-13, Issue-1, 340, January-2021, https://doi.org/10.3390/su13010340
4. Md Sobuj, Adnan Maroof Khan, Md Ahashan Habib, Md Mazedul Islam; "Factors influencing eco-friendly apparel purchase behavior of Bangladeshi young consumers: case study"; Emerald Publishing Limited, Research Journal of Textile and Apparel, Volume-25, Issue-1, 2021, Page:1560-6074, DOI 10.1108/RJTA-10-2019-0052
5. Ahashan Habib, Yukun Bao & Aboobucker Ilmudeen; " The Impact of Green Entrepreneurial Orientation, Market Orientation and Green Supply Chain Management Practices on Sustainable Firm Performance", Cogent Business & Management, 2020, Volume 7, Issue 1, ISSN: (Print) 2331-1975 (Online), https://doi.org/10.1080/23311975.2020.1743616
6. Ahashan Habib and Yukun Bao, "Impact of knowledge management capability and green supply chain management practices on firm performance", International Journal of Research

in Business and Social Science, 2019, Volume 8, Issue 6, ISSN: 2147- 4478. DOI:https://doi.org/10.20525/ijrbs.v8i5.548
7. Ahashan Habib, Md. Ruhul Amin Mondal , Fahria Binte Islam; Identification the Factors of Safety and SWOT Analysis of Ready Made Garment Industry in Bangladesh, International Journal of Scientific and Engineering Research, 2019, Volume 10, Issue 11, ISSN 2229-5518.
8. Syduzzaman,Md. Monirul Islam, Md. Ahashan Habib, Dilruba Yeasmin, Effects of Implementing TQM Principles in the Apparel Manufacturing Industry: Case Study on a Bangladeshi Clothing Factory, Scientific & Academic Publishing, Science and Technology 2016, 6(3): 68-75, p-ISSN: 2163-2669, e-ISSN: 2163-2677.
9. Ahashan Habib, Md Mahbub Uz Zaman, "A Generalized Framework for Value Stream Mapping in the Textile and RMG industries" Textile Talent Hunt Research, Bangladesh Textile Today, Volume 09, Issue 05, Page 43-46, ISSN 1999-2076, Reg.8/2012.
10. Syduzzaman, Md. Mahbubor Rahman, Md. Mazedul Islam, Md. Ahashan Habib, Sharif Ahmed , "Implementing Total Quality Management Approach In Garments Industry", European Scientific Journal, Volume-10, No. 34, ISSN: 1857-7881(Print), 1857-7431(Online).
11. Batan Biswas and Md. Ahashan Habib, "Temperature Regulating Melt Spun Bi-Component Fibers With PA6 Sheath And PCM/HDPE Core", Bangladesh Journal of Textile Science & Engineering, Volume-1, Issue-1, June 2014, ISSN 2306-1537.
12. Ahashan Habib, "Management of Textile and Apparel Industry by PDM and ERP software", Textile Trends, Volume-04 , Issue: July-24, 2011, Page 33-36, ISSN 0040-5205, Reg. No: 2815/58
13. Ahashan Habib, "Comparative Study of CAD, CAM Suitability in Apparel Product Development Process", Bangladesh Textile Today, Volume 3, Issue 05, Page 34-37, ISSN 1999-2076, Reg.51/2010.

Dr. Md. Syduzzaman

Associate Professor

Research articles:

- **Syduzzaman M,** Rumi SS, Fahmi FF, Akter M, and Dina RB. Mapping the recent advancements in bast fiber reinforced biocomposites: A review on fiber modifications, mechanical properties, and their applications. Results in Materials, Elsevier. September 2023.
- **Syduzzaman M.,** Hassan A., Anik HR., Tania IS., Ferdous T., and Fahmi FF. Unveiling New Frontiers: Bast Fiber-Reinforced Polymer Composites and their Mechanical Properties. Polymer Composites, Wiley. July 2023.
- **Syduzzaman, Md**, Hassan, Abir, Anik, Habibur Rahman, Akter, Mahin, Islam, Md Rashedul, Nanotechnology for High-Performance Textiles: A Promising Frontier for Innovation. ChemNanoMat, Wiley. July 2023.
- Islam MZ, Sarker ME, Rahman MM, Islam MR, Ahmed ATMF, Mahmud MS, and **Syduzzaman M.**Green composites from natural fibers and biopolymers: A review on processing, properties, and applications. Journal of Reinforced Plastics and Composites. January 2022.

- Al Faruque MA, **Syduzzaman M**, Sarkar J, Bilisik K, Naebe M. A Review on the Production Methods and Applications of Graphene-Based Materials. *Nanomaterials*. 2021; 11(9):2414.
- Bilisik, K., **Syduzzaman, M.**Carbon nanotubes in carbon/epoxy multiscale textile preform composites: A review. Polymer Composites. 2021; 1– 28.
- **Syduzzaman, M.**; Al Faruque, M.A.; Bilisik, K.; Naebe, M. Plant-Based Natural Fiber Reinforced Composites: A Review on Fabrication, Properties and Applications. *Coatings***2020**, *10*(10), 973.
- Dulal, M., **Syduzzaman, M.** (2020). Brand Preferences and Frequency of Buying Branded Clothes: A Research on Dhaka City, Bangladesh. Tekstil ve Mühendis, 27 (119), 178-185.

Dr. Md. Nurun Nabi

Assistant Professor

[1] Nabi, M.N., Liu, Z., & Hasan, N., (2022), Examining the nexus between transformational leadership and follower's radical creativity: the role of creative process engagement and leader creativity expectation, International Journal of Emerging Markets. Vol. ahead-of-print No. ahead-of-print. DOI 10.1108/IJOEM-05- 2021-0659, First Author, Journal Level: SSCI, IF. 2.488-Emerald Publishing)

[2] Nabi, M.N., Liu, Z., & Hasan, N., (2021), Investigating the effects of Leaders' Stewardship Behavior on Radical Innovation: A Mediating Role of Knowledge Management Dynamic Capability and Moderating Role of Environmental Uncertainty, Management Research Review, Vol. 46 No. 2, pp. 173-195, First Author, Journal Level: (ESCI, Scopus-Emerald Publishing)

[3] Nabi, M.N., Liu, Z., & Akter, M. M.,(2021), Transformational Leadership and Radical Innovation for Sustainability: Mediating Role of Knowledge Management Capability and Moderating Role of Competitive Intensity, Innovation and Management Review, Vol. ahead-of-print No. ahead-of-print. DOI 10.1108/INMR- 05-2021-0075. First Author, Journal Level: (ESCI, Scopus-Emerald Publishing).

[4] Nabi, M.N., & Liu, Z., (2022), Participative leadership effects on followers' radical creativity: role of creative process engagement and supervisor support for creativity, Evidence-based HRM: a Global Forum for Empirical Scholarship. Vol. ahead-of-print No. ahead-of-print. DOI 10.1108/EBHRM-11-2021-0239, First Author, Journal Level: ESCI and Scopus, Emerald Publishing)

[5] Nabi, M.N., & Liu, Z., (2021), Benevolent paternalistic leadership behavior and follower's radical creativity: The mediating role of follower's voice behavior and the moderating role of follower's power distance orientation. International Journal of Research in Business and Social Science, Vol 10 No 3 ISSN: 2147-4478.First Author, Journal level: ABI (ProQuest).

[6] Habib, M.A.; Bao, Y.; Nabi, N.; Dulal, M.; Asha, A.A., (2021), Islam, M. Impact of Strategic Orientations on the Implementation of Green Supply Chain Management Practices and Sustainable Firm Performance. Sustainability, 13, 340. 3rd Author, Journal level: SSCI. IF. 3.899-MDPI.

[7] Nabi, M.N.; Masud, A.A.; Shuvro, R.A., Milon, M.; Islam, F., Akter, M. M.,(2022) Covid-2019 Disruption On Foreign Direct Investment (FDI) of The Textile And Apparel Industry: Evidence-Based Analysis. International Journal of Information, Business and Management, Vol. 14, No.4, 2022. First Author, Journal level: ABI (ProQuest)

[8] Nabi, M. N., Akter, M. M., Habib, A., Al Masud, A., & Kumer Pal, S. (2021). Influence of CSR stakeholders on the textile firms performances: The mediating role of organizational legitimacy. International Journal of Research in Business and Social Science (2147- 4478), 10(8). First Author, Journal level: ABI (ProQuest)

[9] Al, A., Hossain A., Roy D.K., Hossain, M.S., Nabi, M. N., Ferdous, A., & Hossain, M.T., (2021), GLOBAL PANDEMIC SITUATION , RESPONSES AND MEASURES IN BANGLADESH : NEW NORMAL AND SUSTAINABILITY PERSPECTIV. International Journal of Asian Social Science 11(7), 314–332.

Md. Shayekh Munir

Assistant Professor

European Scientific Journal (ISSN: 1857 – 7881 (Print)	Present status of workers in readymade garments industries in Bangladesh	Kaniz Farhana, Md. Syduzzaman Md. Shayekh Munir	11	7	March 2015
Human Resource Management Research 2016 (DOI:10.5923/j.hrmr.20160602.03)	The Impact of Human Resource Management Practices on Job Performances: A Case Study of Dhaka Bank Pvt. Ltd., Bangladesh	Md. Nurun Nabi, Md. Syduzzaman, Md. Shayekh Munir	6	2	2016
International Journal of Current Research (ISSN: 0975-833X)	How motivation influences the job factors of production: A case study of Jamuna Bank Pvt. Ltd, Bangladesh	Md Nurun Nabi Md Shayekh Munir Abu Al Tareq Ahmed Jenepha Eyesmin	8	12	December, 2016
Global Journal of Researches in Engineering (DOI:10.17406/GJRE)	A Survey on the Factors Affecting Employee Turnover in the Readymade Garments of Bangladesh	Sraboni Ahmed, Md. Hasanuzzaman, Md. Shafiqul Islam Chowdhury,	18	1	2018

		Md. Ebrahim Shaikh Md. Shayekh Munir			
Human Resource Management Research (DOI:10.5923/j.hrmr.20221201.01)	Factor Analysis: The Outcome of Motivation on Employees' Performance in Textile Sector.	Sraboni Ahmed, Mohammad Shayekh Munir Mohammad Rashel Hawlader, G. M. Faysal1 Md. Nazmul Islam	12	1	2022
Sustainability (MDPI) (DOI:10.3390/su142416748)	Impact of Institutional Pressure on Cleaner Production and Sustainable Firm Performance	Md. Ahashan Habib Md. Rezaul Karim Marzia Dulal Mohammad Shayekh Munir	14	24	14 December 2022
Springer Nature (Chemical Papers, IF:2.187)	In situ synthesis and deposition of AgNPs on the alkali - pretreated cotton/flax blended denim fabric for antibacterial efficacy	Sraboni Ahmed Adnan Maroof Khan Md. Mashiur Rahman Khan Md. Hasanuzzaman Md. Shayekh Munir Md. Saiful Quddus	N/A	N/A	9 May 2023

Md. Arif Iqbal

Assistant Professor

- China & India: Two immense powers of textile chemicals and dyestuff manufacturing
- Cotton fabric with Titanium Dioxide cleans itself exposed to sunlight
- Developments in medical textiles creating the future of textiles
- DelPHE focused on sustainability for future fashion
- An Investigation of Budget 2012-13 for the Textile & Apparel Industry
- "Air conditioned" jackets gets flurry in Japan
- Textile education on the table at its 100 years completion
- Developments in medical textiles creating the future of textiles

Marzia Dulal

Assistant Professor

LIST OF PUBLICATIONS:

1. Dulal, M., Islam, M. M, (2018). A Study on Consumer Buying Behavior towards Foreign and Domestic Branded Apparels. Global Journal of Management and Business Research: E Marketing. Volume 18 Issue 5 Version 1.0 Year 2018, Type: Double Blind Peer Reviewed International Research Journal, Publisher: Global Journals, Online ISSN: 2249-4588 & Print ISSN: 0975-5853

2. Alam ,J.M. & Dulal, M. (2018).Coping Strategies of Stress Tolerance in Relation to Military Training.Global Journal of HUMAN-SOCIAL SCIENCE: A Arts & Humanities - Psychology. Volume 18 Issue 3 Version 1.0 Year 2018T, ype: Double Blind Peer Reviewed International Research Journal Publisher: Global Journals Online ISSN: 2249-460x & Print ISSN: 0975-587X

3. Dulal, M. & Syduzzaman, M.(2017). Needle Management System in Apparel Industry. International Journal of Scientific & Engineering Research .Volume 8, Issue 5, May-2017,ISSN 2229-5518

4. Syduzzaman, M. & Dulal, M. (2016). Empirical Study on the TQM implementation in the Apparel Industry of Bangladesh. International Journal of Scientific & Engineering Research .Volume 7, Issue 12, December-2016,ISSN 2229-5518

5. Prasad, K.,R., Shahid, A.,M., Nurunnabi , Dulal, M.(2015) A comparative study between one bath dyeing method for polyester cotton (pc) blended fabric over conventional two bath dyeing method. European Scientific Journal. November 2015 edition vol.11, No.33 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431

Ahsan Habib

Assistant Professor

• Ahsan Habib, Morium Pervin , Nasrin Akhter (2018), Social Safety & Security of Women Workers in Garments Sector of Bangladesh. Publisher: Global Journals, Online ISSN: 2249-460x & Print ISSN: 0975-587X.

• Ahsan Habib, Md. Hasan Sheikh, Nurun Nabi, (2018). Employee Turnover & It's Impact on Apparel Industry in Bangladesh: A Case Study of Mondol Group. Publisher: Scientific & Academic Publishing, DOI:10.5923/j.hrmr.20180803.03.

Md. Hasan Sheikh

Assistant Professor

• Hasan Sheikh, Ibrahim Khalil, Saruar Hossain & S.M. Rafio Morshed, (2019). Reducing Defects in Denim Weaving by Applying Six Sigma Methodology: A Case Study. Publisher: Global Journals, Online ISSN: 2249-460x & Print ISSN: 0975-587X.

• Ahsan Habib, Md. Hasan Sheikh, Nurun Nabi, (2018). Employee Turnover & It's Impact on Apparel Industry in Bangladesh: A Case Study of Mondol Group. Publisher: Scientific & Academic Publishing, DOI:10.5923/j.hrmr.20180803.03.

• Nurun Nabi, Rimon Sarkar, Marium Akter, Hasan Sheikh and Asma Ansary Asha, (2018). Impact of marketing mix on customer satisfactions–a case study on officina (bd) ltd, International Journal of Current Research, DOI: https://doi.org/10.24941/ijcr.33112.12.2018.

Farjana Sakila

Assistant Professor

1. Journal: JOURNAL OF MATERIALS SCIENCE AND NANOMATERIALS
Journal homepage: Bhuiyan et al., J Mater Sci Nanomater 2018, 2:1
Published: April 30, 2018
Title: Scope of Adsorption of Acid Dyes by Chitosan-Viscose Hybrid Material from an Aqueous Solution
2. Journal: JOURNAL OF ADVANCEMENT IN ENGINEERING AND TECHNOLOGY
Journal homepage: http://scienceq.org/Journals/JAET.php
Published: July 22, 2015
Title: Market Analysis of Textile Dyes and Auxiliaries in Bangladesh: Challenges and Prospects

Maeen Md. Khairul Akter

Assistant Professor

Analysis of The Factors Affecting the Lead Time for Export of Readymade Apparels from Bangladesh; Proposals for Strategic Reduction of Lead Time, European Scientific Journal November 2014 edition vol.10, No.33 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431.

Development of Different Denim Effect on Knitted Fabric and Comparative Analysis with Conventional Woven Denim on the Basis of Physical and Dimensional Properties, Research Journal of Engineering Sciences, ISSN 2278 – 9472, Vol. 4(4), 9-15, April (2015)

Department of Industrial and Production Engineering

Industrial and Production Engineering (IPE) is a globally recognized engineering fraternity concerned with the development, improvement, implementation and evaluation of integrated systems of people, money, knowledge, information, equipment, energy, material and process. It is very necessary for any manufacturing industry and also service providing enterprise to implement this concept of engineering and principles of management science. Industrial engineers work to eliminate waste of time, money, materials, man-hours, machine time, energy and other resources that do not generate value. IPE engineers figure out how to do things better, they engineer processes and systems that improve quality and productivity. Industrial Engineers can run any industry by improving efficiency as well as effectiveness of operations.

Textile and Ready-made Garments (RMG) industry is the main manufacturing entity in Bangladesh. To make our Textile and RMG sector competitive in the global market, Graduates of Textile Engineering equipped with the tools of Industrial and Production Engineering can be of great value. Its uniqueness will help the graduates of the department to support the contemporary & succeeding needs of the Industries, especially in Textiles and Garments sectors of Bangladesh.

Vision

Recognition of Industrial & Production Engineering (IPE) Team in every Textile Industries in Bangladesh.

Mission

- Development of curriculum foe IPE department according to the industry requirement.
- Continuous Linkage or Collaboration between Industry and the Department.
- Skill Development of Faculty Member and Staff.
- Modernized Lab Facilities to be established in the Department.
- Collaborative Research Activities between Local and International Universities offering IPE degree.
- Applying tools and techniques of IPE in the industry more effectively.

Objectives

- Improving Productivity of our RMG and Textile Industry.
- Proper Quality Management of our Industry.
- Creating opportunity of Textile Engineers specialized on IPE in Textile Industry.
- Development of existing process.
- Innovation of new Products.
- Energy conservation.

DEGREE OFFERED

B. Sc. in Textile Engineering (Industrial & Production)

- Number of Seats: 40
- Number of Semester: 08 (6 months each)
- Total Credit: 166

PhD in Textile Science & Engineering

FACULTY MEMBERS

Dr. Mohammad Ali
Professor
Dr. Mohammad Rafiqur Rashid
Assistant Professor & Head of the Department
Md. Abu Sayeed Biswas
Assistant Professor
Salima Sultana Shimo
Assistant Professor
Md Mamunur Rashid
Assistant Professor
Ahasan Ahamed
Assistant Professor
Sourav Kumar Ghosh
Assistant Professor
Saifur Rahman Tushar
Assistant Professor
Rashid Anzoom
Lecturer
Farhatul Janan
Lecturer

Officer's

Mechanical Lab

Sarmin Akter
Technical Officer
Ripon Talukder
Assistant Technical Officer

Publication & Research

Dr. Mohammad Ali

Professor

• Influence of Plasticizer Content on the Transition of Electromechanical Behavior of PVC Gel Actuator
• Characteristics of the creep-induced bending deformation of a PVC gel actuator by an electric field
• Effect of plasticizer on the electric-field-induced adhesion of Dielectric PVC Gels
• Relationship between Electrode Polarization and Electrical Actuation of Dielectric PVC Gel Actuators
• Dielectric and electromechanical studies of plasticized poly (vinyl chloride) fabricated from plastisol

Md Mamunur Rashid

Assistant Professor

• An Adaptive Neuro-Fuzzy Inference System based Algorithm for Long Term Demand Forecasting of Natural Gas Consumption

• Selecting a Material for an Electroplating Process Using AHP and VIKOR Multi Attribute Decision Making Method

• https://www.mendeley.com/catalogue/43ac0cc0-6741-3e1e-8dd0-afca23ad0046/

• https://www.mendeley.com/catalogue/324f8b96-34ad-3459-91e8-2112f08bcd30/

• http://www.ieomsociety.org/ieom2020/papers/386.pdf

• http://www.ieomsociety.org/ieom2020/papers/387.pdf

• http://www.ieomsociety.org/ieom2020/papers/390.pdf

• http://www.ieomsociety.org/ieom2020/papers/394.pdf

• http://itegam-jetia.org/journal/index.php/jetia/article/view/659

Sourav Kumar Ghosh

Assistant Professor

• Sourav Kumar Ghosh, Naurin Zoha, Tanzima Zoha Chowdhury & Md. Sazol Ahmmed "Supplier Selection using Integer Linear Programming Model" Global Journal of Researches in Engineering Volume 18 Issue 4 Version 1.0 Year 2018, ISSN:2249-4596
• Sazol Ahmmed, Tanzima Zoha Chowdhury & Sourav Kumar Ghosh "Automatic Street Light Control System using Light Dependent Resistor and Motion Sensor" Global Journal of Researches in Engineering Volume 18 Issue 1 Version 1.0 Year 2018, ISSN:2249-4596
• Naurin Zoha & Sourav Kumar Ghosh "A simple heuristic for solving one stage multi-modal fixed charge transportation problems" 7th World Conference on Applied Sciences, Engineering & Management 26-27 October 2018, ABS-Paris, France
• Sourav Kumar Ghosh & Naurin Zoha "A Generic MCDM Model for Supplier Selection for Multiple Decision Makers Using Fuzzy TOPSIS" 5th International Conference on Engineering, Research, Innovation and Education,January 25-27, 2019, Sylhet, Bangladesh
Google Scholar ID: https://scholar.google.com/citations?user=w7znyFEAAAAJ&hl=en

Saifur Rahman Tushar

Assistant Professor

Publications:

1. Md. Sagar Islam Khan, Sanatan Sushil, Saifur Rahman Tushar, "Minimization of Defects in the Fabric Section through applying DMAIC Methodology of Six Sigma: A Case Study," Asian Journal of Management Sciences & Education Vol. 9(3) July 2020

Rashid Anzoom

Lecturer

- Rashid Anzoom and M Ahsan Akhtar Hasin, "Application of Ant Colony Algorithm in Fleet Assignment Problem", Production and Operations Management Society (POMS) International Conference 2018, Kandy, Srilanka.
- Pramiti Sarker, Kais Bin Zaman, Rashid Anzoom, " A multi-objective Optimization Approach for the Analysis and Mitigation of Vulnerability of Road Network in Dhaka City", 12th Global Engineering, Science and Technology Conference, 2016, Dhaka, Bangladesh.

Department of Humanities and Social Science

The Department of Humanities and Social Science comprises of Business & Communicative English, Economics and Sociology, creating a distinct blend of communicative and applied tools crucial for Textile Engineers in their field of study and future career. This particular department has been formulated to provide students with necessary exposure to global economy, societal trends dictating business & industries and the effective usage of communication in business. The aim of this department is to prepare students to be able to compete under fierce business environment and global challenges. Adjoined with their core module of study, this department has highly qualified and experienced faculties who are dedicated towards ensuring necessary impetus and value addition to generate a holistic learning experience for future Engineers.

Vision

The vision of The Department of Humanities and Social Science is to deliver the learning outcomes specified by the study program and achieve excellence in the fields of higher education by virtue of extensive knowledge on associated subject matter, comprehensive curriculum and consistent enhancement of teaching.

Mission

Our mission is to prepare knowledgeable, competent graduates who will possess the ability to contribute to the society and integrate their knowledge with various sectors to fetch progressive transformation to the country at large.

Objectives

The objective of the Department is to aid students with the knowledge and skills required to master the major skill sets of corresponding subjects. Graduates undertaking the courses of the Department would approach a diverse range of discourse including academic as well as professional texts by applying themselves with an analytical, critical and logical frame of mind.

Academic Courses :

a) HSS 101: Business and Communicative English (Theory)
b) HSS 102: Business and Communicative English (Practical)
c) HSS 401 : Sociology (Theory)
d) HSS 301 : Economics(Theory)

FACULTY MEMBERS

Shamima Akter Rozy
Assistant Professor & Head of the Department
Dilara Hossain
Assistant Professor
Md. Salah Uddin
Assistant Professor
Shahid Md. Adnan
Assistant Professor
Ehsan Elahi Sabik
Lecturer

Publication & Research

Dilara Hossain

Assistant Professor

- Customized Reality and Fatal Optimism: A Postmodern approach to Arthur Miller's Death of a salesman. Published on Chaos: IUB Studies in Language, Literature and Creative Writing - A Journal of the Department of English, Independent University, Bangladesh. Volume 2, Number 1. Summer 2014.
- Art and Williams' Poetry: Paintings, Painters and Perceptions that Precipitated William Carlos Williams' Poetry. Wizcraft Journal of Language and Literature: Vol. II: Issue: IV ISSN: 2319-4952. December, 2013.
- Voyeuristic Active Male Gaze vs. Passive Mechanism of Female: A Stereotypical Representation of Women in the Context of Television Commercial. Ideas & Ideologies (i&i) e Journal. Volume-1: Issue- 4. ISSN: 2320-7744. March 2013.

Shamima Akter Rozy

Assistant Professor

List of Journal Paper

Serial	Title of the Research Paper	Name of the Researcher	Journal name	Volume	Issue	Year of Publication
1.	Analysis of the Socio-economic Factors of Poor Academic Results and Predicting Probable Solutions of Major Factors	Shamima Akter Rozy*, Sourav Kumar Ghosh, Farhatul Janan	Social Science Research Network	https://ssrn.com/abstract=4523122		2023
2.	COVID-19 pandemic and its impact on the socio-economic context of Bangladesh.	Shamima Akter Rozy*, Muhammad Ali Emon	Eubios journal of Asian and international bioethics: EJAIB.	31	1	2021
3.	Application of Anthony Giddens and Ulrich Beck's Theories Based on Sociological Study on Women's Demographic Change in Dhaka City.	Shamima Akter Rozy*, Sourav Kumar Ghosh	International Journal of Social, Political and Economic Research.	7	2	2020

4.	Socio-economic status of the child vendors: A sociological study in Farmgate and Tejgao industrial Areas.	Shamima Akter Rozy*	IOSR Journal of Humanities and Social Science.	25	5	2020

Shahid Md. Adnan

Assistant Professor

Sl No.	**Title of the Paper**	**Name of the Researcher**	**Name of the Journal with Page Number**	**Volume**	**Issue**	**Year of Publication**
1	*'Regressive or Progressive Apparatus: A Representation of Women in Billboard and Print Advertisements'*	Shahid Md. Adnan	**ASA University Review** (ISSN 1997-6925) Pages: 179-188	Volume 09, No.1	16th Issue	January-June 2015
2	'*The Role and Impact of Business Communication on Employee Performances and Job Satisfactions: A Case Study on Karmasangsthan*	Md. NurunNabi, KM Foysol &	**Arabian Journal of Business and Management Review** (ISSN: 2223-5833),	Volume 07	7th Issue	August,

	Bank Limited, Bangladesh'	Shahid Md. Adnan	*doi: 10.4172/2223-5833.1000301*			2017
3	*'Western Philosophy and Chaka: An Existential Reading'*	Dilara Hossain & Shahid Md. Adnan	**ASA University Review** (ISSN 1997-6925) Pages : 123-129	Volume 12, No.2	23rd Issue	July-December 2018
4	Trajectory of Sexualization in Film Adaptation of Homer's *The Iliad* and Hawthorne's *The Scarlet Letter'*	Sharjana Hossain, Shahid Md. Adnan & Arifur Islam Laskar	**ASA University Review** (ISSN 1997-6925)			

Faculty of Fashion Design and Apparel Engineering

Textile and garments is the largest export oriented sector in Bangladesh. The development of economy of Bangladesh and growth of export are highly dependent on the ability of textile industry to compete internationally with finest products. Cutting edge machinery maintained by skillful engineers are the most important prerequisites for perfect products.

Dean

Prof. Dr. Md. Mashiur Rahman Khan

Faculty of Fashion Design and Apparel Engineering

Department of Apparel Engineering

The Department of Apparel Engineering, a belt of omniscient knowledge and adeptness on industrial textile manufacturing. RMG sector occupies the most portion of foreign currency earning sources in Bangladesh and the demand will never dent due to being the second basic human need. Apparel Engineering Department is the most important and leading one in the first ever public university on textiles in Bangladesh. It has a proud history of delivering top class industry relevant courses and offers you a variety of challenging yet rewarding career paths. From the very technical and innovation to the practical and pragmatic, this department offers a diverse and high quality learning experience in this specific area.

Vision

- To establish apparel engineering department of BUTEX with world class teaching-learning and research facilities.

Mission

- Modernization of apparel engineering laboratory with latest machines, equipment, and technologies and to facilities regular practical classes and research works.
- Establishing apparel engineering department library for the teachers, students and researchers
- Establishing AE departmental seminar room to organize various seminars, workshop, training etc.
- Taking initiative for creating facilities for higher education and training both in home and abroad for the teachers and the staffs.
- Creating linkage of apparel engineering department with apparel industry and alumni.
- Establishing alumni association of apparel graduates initiated by apparel engineering department.

Objectives

- To produce quality apparel graduates suitable for the apparel industry and business sector.
- To create facilities for research and development.
- To ensure pleasant teaching-learning environment.
- To create strong bond within apparel department and alumni.

Academic Courses

At present, we are offering B. Sc. in Textile Engineering (Apparel) and M.Sc. in Textile Engineering (Apparel) degrees. Our courses are recognized for their depth, detail and quality within the sector and you can be assured of high quality teaching staffs and excellent facilities. We are firmly committed to give the students a solid foundation to build their career successfully.

Research & Develpoment

Prof. Dr. Kaniz Farhana

Professor, Department of Apparel Engineering

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Mahamude, A. S. F., Harun, W. S. W., Kadirgama, K., Ramasamy, D., Farhana, K., Salih, K., & Yusaf, T. (2022). Experimental study on the efficiency improvement of flat plate solar collectors using hybrid nanofluids graphene/waste cotton. Energies, 15(7), 2309.

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Chy, M. N. U., Adnan, M., Rauniyar, A. K., Amin, M. M., Majumder, M., Islam, M. S., ... & Paul, A. (2020). Evaluation of anti-nociceptive and anti-inflammatory activities of Piper sylvaticum (Roxb.) stem by experimental and computational approaches. Advances in Traditional Medicine, 20, 327-341.

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Dr. Mahmuda Akter
Associate Professor and Head, Department of Apparel Engineering

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2. Bilisik, K., & Akter, M. (2022). Graphene nanocomposites: A review on processes, properties, and applications. *Journal of Industrial Textiles*, *51*(3_suppl), 3718S-3766S.

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6. Tania, I. S., Ali, M., & Akter, M. (2022). Fabrication, characterization, and utilization of ZnO nanoparticles for stain release, bacterial resistance, and UV protection on cotton fabric. Journal of Engineered Fibers and Fabrics, 17, 15589250221136378.

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9. Akter, M., & Khan, M. R. (2015). The effect of stitch types and sewing thread types on seam strength for cotton apparel. International Journal of Scientific & Engineering Research, 6(7), 198-205.

10. Syduzzaman,M., Rumi,S.S., Fahmi,F.F., Akter M, Dina R.B., Mapping the recent advancements in bast fiber reinforced biocomposites: A review on fiber modifications, mechanical properties, and their applications, Results in Materials, Vol.20, 2023, 100448.

Dr. Lamya Zahir

Associate Professor, Department of Apparel Engineering

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1. Zahir, L., Kida, T., Tanaka, R., Nakayama, Y., Shiono, T., Kawasaki, N., ... & Nakayama, A. (2021). Synthesis of thermoplastic elastomers with high biodegradability in seawater. Polymer Degradation and Stability, 184, 109467.

2. Zahir, L., Kida, T., Tanaka, R., Nakayama, Y., Shiono, T., Kawasaki, N., ... & Nakayama, A. (2021). Synthesis, properties, and biodegradability of thermoplastic elastomers made from 2-methyl-1, 3-propanediol, glutaric acid and lactide. Life, 11(1), 43.

3. Zahir, L. (2021). Development of Biodegradable Thermoplastic Elastomers Composed of 2-Methyl-1, 3-propanediol-based Polyesters and Poly (L-lactide) Blocks (Doctoral dissertation, 広島大学 (Hiroshima University)).

4. Zahir, L., Kida, T., Tanaka, R., Nakayama, Y., Shiono, T., Kawasaki, N., ... & Nakayama, A. (2020). Synthesis and properties of biodegradable thermoplastic elastomers using 2-Methyl-1, 3-propanediol, succinic acid and lactide. Polymer Degradation and Stability, 181, 109353.

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6. Zahir, L., & Khan, M. M. R. (2015). Comparison Study of the Effect of Bleaching and Enzyme Concentration on the Physical and Mechanical Properties of Denim Garments. The International Journal of Scientific & Engineering Research, 6, 343-348.

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Adnan Maroof Khan

Assistant Professor, Department of Apparel Engineering

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9. Conference Paper: Georg Bardl, Adnan Maroof Khan, Andreas Nocke and Chokri Cherif (2017). "Robot-guided eddy current measurement of yarn orientation change during stepwise 3D draping". *17th World Textile Conference AUTEX 2017- Textiles - Shaping the Future; IOP Conf. Ser.: Mater. Sci. Eng.* 254 042005; DOI Index: https://doi.org/10.1088/1757-899X/254/4/042005 .

Upama Nasrin Haq

Assistant Professor, Department of Apparel Engineering

---

1. Haq, U. N., & Alam, S. R. (2023). Implementing Circular Economy Principles in the Apparel Production Process: Reusing Pre-consumer Waste for Sustainability of Environment and Economy. Cleaner Waste Systems, 100108.

2. Akter, M. M. K., Haq, U. N., Islam, M. M., & Uddin, M. A. (2022). Textile-apparel manufacturing and material waste management in the circular economy: A conceptual model to achieve sustainable development goal (SDG) 12 for Bangladesh. Cleaner Environmental Systems, 4, 100070.

3. Haq, U. N., & Ite, T. A. (2022). Exploratory Study of Textile Undergraduates' Knowledge and Perception towards Eco-Friendly Clothing in Bangladesh. Tekstilec, 65(1), 44-57.

4. Haq, U. N., Huraira, A., & Uddin, M. A. (2022). Physical characteristics of Typha elephantina Roxb. fiber (Hogla) for textile application. The Journal of Textile Institute, 113(11), 2328-2334.

5. Hossain, M. M., Haq, U. N., & Khan, M. M. R. (2020). Alteration of Air Transmittance of Plain Weft Knitted Fabrics for Different Parameters. Saudi Journal of Engineering and Technology (SJEAT), 5(11), 451-456.

6. Haq, U. N., & Hossain, M. M. (2017). A review on reduction of air consumption in air Jet Loom: The possible setting points. Journal of Asian Scientific Research, 7(3), 52.

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8. Haq, U. N., Khan, M. M. R., & Khan, M. M. R. (2015). Investigation of the bulk, surface and transfer properties of chlorine bleached denim apparel at different condition. European Scientific Journal, 11(12), 213-226.

9. Haq, U. N., & Khan, M. M. R. (2014). Technology of acid wash on woven denim apparel with damp pumice stone.

10. Haq, U. N. (2014). Behaviors of Physical and Mechanical Characteristics of Denim Apparel After Acid Wash Treatment. International Journal of Engineering Research & Technology, 3(11), 696-701.

FACULTY MEMBERS

Dr. Md. Mashiur Rahman Khan

Professor

Dr. Mahmuda Akhter
Associate professor & Head of the Department
Dr. Kaniz Farhana
Professor
Dr. Lamiya Zaheer
Associate Professor
Mr. Farzana Rahman
Assistant Professor
Mr. Adnan Maruf Khan
Assistant Professor
Mr. Md. Majedul Islam
Assistant Professor
Wishes of Mr. Jasmine Naha
Assistant Professor
Mr. Md. Kamrul Hasan Chowdhury
Assistant Professor
Mr. Upma Nasreen Haque
Assistant Professor
Mr. Smita Rani Debnath
Assistant Professor
Mr. Nurunnessa
Assistant Professor
Mr. Sajid Elahi
Assistant Professor
Mr. Shah Md. Maruf Hasan
Assistant Professor
Mr. Mocha: Farzana Sultana
Lecturer
Mr. Ayesha Siddiqa
Lecturer

Officers

Palash Chandra Nath
Technical Officer
Md: Abu Sayed
Assistant Technical Officer

Department of Textile Fashion and Design

The course offered from this department equips oneself with the necessary knowledge, skills and attributes to succeed in a wide range of careers related to fashion and textile. The course blends individual creativity, technical knowledge of textiles and commercial realism, and one will be able to apply his/her skills & knowledge of the professional design process for innovating something special. The course is designed to reflect contemporary practice in the fashion industry. Individual creativity, both in fashion design and fashion styling, balanced with realism, are key factors underlying the ethos of this course. Students are encouraged to explore their individual talents through the application of the professional design process, from concept to final product.

Vision

Vision of Textile Fashion and Design department of Bangladesh University of Textiles is to be the premier institution of academic excellence for fashion, textiles and design education, research and partnership. The department is committed to Excellence, Innovation, and Customer Satisfaction and Development through self and shared efforts.

Mission

The mission of Textile Fashion and Design department of Bangladesh University of Textiles is to inspire, educate and create true professionals in the broad spectrum of Textile and Fashion design field by promoting academic excellence through well-crafted curriculum and distinctive learner-centered environment. This department aims to nurture the inherent talents and creativity of the students by developing an intellectual stimulating community and fostering a culture of skill-based and practical learning environment through a holistic approach that enables students to maximize employment opportunities and to face global challenges by providing them with career oriented courses.

Objectives

- To provide professional education covering the whole spectrum of activities in fashion and textiles, and develop “all-round” graduates with vision and a global outlook, a sense of social responsibility, critical and creative thinking ability.
- Innovative teaching methodologies and practices to further enhance learning and teaching to implement outcome based learning and teaching, to provide a state of the art environment that stimulates students’ learning interests.
- To impact professional education covering the whole spectrum of activities in the realm of Fashion and Textiles, Design and Management, to develop Design Professionals with a dynamic global outlook, a sense of social responsibility, critical and creative thinking.

- To conduct research to create and disseminate knowledge to all spheres-academic, commerce, industry, community, society and the world at large.
- To become a state of excellence in fashion and textile education and research, regionally and internationally.

DEGREE OFFERED

B. Sc. in Textile Engineering (Fashion & Design)

- Number of Seats: 40
- Number of Semester: 08 (6 months each)
- Total Credit: 165

PhD in Textile Science & Engineering

FACULTY MEMBERS

Dr. Md. Mahbubor Rahman
Associate Professor & Head of the Department
Sutapa Chowdhury
Associate Professor
Md. Mahamudul Hasan
Assistant Professor
Rebeka Sultana
Assistant Professor
Md. Kamrul Hasan
Assistant Professor
Naila Sharmin Kanta
Assistant Professor
Mozahida Akhtar
Assistant Professor
Bristi Sarker
Lecturer

Officer's

Department Office: TFD
Imranul Hasan
Administrative Officer
Fashion Lab
Md. Akhlaqur Rahman
Technical Officer

Faculty of Science and Engineering

The textile and apparel industry is one of the main sectors of industrialization in Bangladesh. The Industrial Revolution has a huge impact on the textile industry. Therefore, the textile industry must be aware of new challenges and reduce production costs, improve productivity, promote industry growth, and change the structure of the workforce. Cutting edge machinery maintained by skillful engineers are the most important prerequisites for perfect products. Our challenge is to transform OBE programmes and skills development infrastructure to deliver the talents needed for an innovative, digitized, sustainable economy.

Dean

Prof. Dr. Nargish Jahan Ara

Faculty of Science & Engineering

Department of Textile Machinery Design and Maintenance

Textile and garments is the largest export oriented sector in Bangladesh. The development of economy of Bangladesh and growth of export are highly dependent on the ability of textile industry to compete internationally with finest products. Cutting edge machinery maintained by skillful engineers are the most important prerequisites for perfect products.
Our mission is to serve the textile industry and economy of Bangladesh on a long term basis by delivering excellent knowledge and highly skilled individuals. A clear conception on theoretical course content along with hands-on experience on machinery design and maintenance in our highest priority.
This department includes experienced and brilliant faculty members from diversified disciplines. Excellent educational background and years of experience in teaching, research and hands-on experience on respective sectors made them highly competent. Moreover, this department offers its students state of the art laboratory facility to learn and research.

Vision

Higher education and research for textile machinery.

Mission

- Creating excellent faculty members.
- Increasing research and lab facilities.
- To enhance collaboration between academia and industry.
- Increasing undergraduate students and, launching MSc and PhD program.
- Integrating textile, electrical, mechanical and computer knowledge.

Objectives

- To create skilled manpower for textile machinery design, manufacturing and maintenance.
- To create leadership in textile machinery marketing.

DEGREE OFFERED

B. Sc. in Textile Engineering (Machine Design & Maintenance)

- Number of Seats: 40
- Number of Semester: 08 (6 months each)
- Total Credit: 165

PhD in Textile Science & Engineering

FACULTY MEMBERS

Dr. Shaikh Md. Mominul Alam
Professor & Head of the Department
A N M Bazlur Rashid
Assistant Professor
Md. Asaduzzaman
Assistant Professor
Tanjheel Hasan Mahdi
Assistant Professor
Md. Mafizul Islam
Assistant Professor
Tanvir Alam
Assistant Professor
Anupom Mondol
Assistant Professor
Ariful Haque Ashik
Assistant Professor
Md. Golam Kibria
Assistant Professor
Tarik Reza Toha
Lecturer
Sultana Umme Habiba
Lecturer

Officer's

Electrical Lab
Md. Nurul Islam Miah
Assistant Technical Officer (Electrical)
Computer Lab
Mohammad Ala Uddin
Technical Officer (Computer)

Publication & Research

Dr. Shaikh Md. Mominul Alam

Professor

- Preparation and properties of Polyimide-silica-polydimethylsiloxane hybrids, Journal of Photopolymer Science and Technology, 20 (2007) 159-162.
- Organic-inorganic hybrids containing polyimide, organically modified clay and in-situ formed polydimethylsiloxane, Reactive and Functional Polymers, V67 (2007) 1218-1224.
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- Effect of in-situ formed polydimethylsiloxane on the properties of polyimide hybrids, Reactive and Functional Polymers, 70 (2010) 755-760.
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- Fully Natural Garment Dyeing Using Tamarind Leaves as Mordant, Journal of Textile Engineering & Fashion Technology, Vol.3(3) (2017) 666-669.
- Fully Chemical free garment dyeing, International Journal of Chemical Studies, Vol. 5(6) (2017) 187-191.
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- Development of knitted gauze fabric as wound dressing for medical application, Advance Research in Textile Engineering, Austin Publishing Group, Vol.3(1) (2018) 1-4.
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- Reviewing the Sustainability of Natural Dyes, Advance Research in Textile Engineering, 5(2) (2020).
- Identifying the Color Strength, Color Intensity, Chromophore Extent and Colorfastness Properties of Cellulosic Fabrics, Advance Research in Textile Engineering, Vol. 5(3) (2020)1-8.
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- Devising a Dust and Noise Pollution Monitoring System for Textile Industry, The 8th International Conference on Networking Systems and Security, ACM Digital Library, 8th NSysS 2021: 8th International Conference on Networking, Systems and Security 2021 P.77–82 https://doi.org/10.1145/3491371.3491381.
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- Automatic pH Controlling System of Dyeing Machine. International Conference on 4th Proceeding of International Conference on 4th Industrial Revolution and Beyond 2021 (IC4IR 2021), pp255-267, Springer, 4 Oct2022.
- Towards Devising a Soil parameters Monitoring System to Improve Plant Irrigation. International Conference on 4th Industrial Revolution and Beyond (IC4IR 2021), Dhaka 10-11th December 2021 Springer (accepted for 2022).
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A N M Bazlur Rashid

Assistant Professor

- Challenging Issues of Spatio-Temporal Data Mininig. **A.N.M. Bazlur Rashid and Md. Anwar Hossain.**
  Volume-03, Number-04, March-2012. Computer Engineering and Intelligent Systems.
- Performance Evaluation of MPEG-4 Video Transmission over IP-Networks: Best Effort and Quality-of-Service. **Md. Anwar Hossain and A.N.M. Bazlur Rashid.** Volume-03, Number-03, February-2012. Computer Engineering and Intelligent Systems.
- Analysis of Dual Core Hexagonal PCF Based Polarization Beam Splitter. **M. R. Khatun, M. S. Islam and A.N.M. Bazlur Rashid.** Volume-03, Number-03, February-2012. Computer Engineering and Intelligent Systems.

Md. Asaduzzaman

Assistant Professor

1. Asaduz-Zaman, A. H. Chowdhury, ‘’Optimum economic dispatch of interconnected microgrid with energy storage system’’, International Conference on Electrical Engineering and Information Communication Technology (ICEEICT), Dhaka, pp. 1-5, 21-23 May 2015.
2. A. Motin, Md. Imran Hasan , Md. Asaduz-Zaman, ‘Design and optimization of a low cost multi band microstrip patch antenna for K-band, Ku-band and X-band applications’’, 15th International Conference on Computer and Information Technology (ICCIT), Chittagong, pp.615 - 620, 22-24 Dec., 2012.

Tanjheel Hasan Mahdi

Assistant Professor

1. *Characterization of Mechanical and Viscoelastic Properties of SC-15 Epoxy Nanocomposites Reinforced With Multi-Walled Carbon Nanotubes, Nanoclay and Binary Nanoparticles*. **Tanjheel H. Mahdi**, Mohammad E. Islam, Mahesh V. Hosur, Alfred Tcherbi-Narteh and S. Jeelani. ASME 2014 International Mechanical Engineering Congress and Exposition, **Montreal, Quebec, Canada**. November 14–20, 2014. pp. V014T11A031; 7 pages. doi: 10.1115/IMECE2014-36176.
2. *Low Velocity Impact Characterization of Nanoclay and MWCNTs Binary Nanoparticles Modified Carbon/Epoxy Composites Subjected to Marine Environmental Conditioning.* Mohammad E. Islam, **Tanjheel H. Mahdi**, Mahesh V. Hosur, Alfred Tcherbi-Narteh and S. Jeelani. ASME 2014 International Mechanical Engineering Congress and Exposition, **Montreal, Quebec, Canada**. November 14–20, 2014. pp. V014T11A030; 7 pages, doi: 10.1115/IMECE2014-36173.
3. *Synergistic Effects of Nanoclay and MWCNTs on the Performance of Epoxy and Carbon Fiber Reinforced Epoxy Composites*. **H. Mahdi**, M. E. Islam, M. V. Hosur, S. Jeelani, Nanotechnology-Smart Materials, Composites, Applications and New Innovations, 3rd International Conference, NANOCON 014, 14-15, October 2014, **Pune, India.**
4. *Evaluation of Fatigue Properties of Carbon Fiber Reinforced Epoxy Composites Modified with Nanoclay.* **H. Mahdi**, M. E. Islam, M. V. Hosur, S. Jeelani. First World Conference on Fracture and Damage Mechanics: Metals, Glass, Ceramics, Semi-conductors, Polymers, Alloys, Composites, Nanocomposites, Gels, and Adhesives (FRACTURE 2014): August 9-11, 2014 at Mahatma Gandhi University, Kottayam, **Kerala, India.**
5. *Characterization of Mechanical and Viscoelastic Properties of Carbon Fiber Reinforced Epoxy Composites Modified with Multi-Walled Carbon Nanotubes, Nanoclay and Binary Nanoparticles.* **H. Mahdi**, E. Islam, M.V. Hosur, S. Jeelani. CMAX-SAMPE Conference, October 14, 2014, **Orlando, Florida, USA.**
6. *Comparison of Low Velocity Impact Properties of MMT, MWCNT and MMT/MWCNT Binary Nanoparticles modified Carbon/Epoxy Composites Subjected to Marine Environmental Conditioning.* Mohammad E. Islam, **Tanjheel H. Mahdi**, Mahesh V. Hosur, Alfred Tcherbi-Narteh and S. Jeelani. ASC 29th Technical Conference, UC San Diego. September 8-10, 2014, **San Diego, CA, USA.** PP: 532
7. *Mechanical and Thermal Properties of Cellulose Nanofibers Reinforced Epoxy Polymer Nanocomposites.* Nuruddin, **T. H. Mahdi,** M. V. Hosur, S. Jeelani. ASC 29th Technical Conference, UC San Diego. September 8-10, 2014, **San Diego, CA, USA.** PP: 382

8. *Fabrication and performance of carbon/epoxy composites with hybrid of nanoclay AND MWCNTs.* Mahesh Hosur, **Tanjheel Mahdi**, Md. Ekramul Islam , Alfred Tcherbi-Narteh and Shaik Jeelani. 20th International Conference on Composite Materials, **Copenhagen, Denmark**, 19-24th July, 2015.
9. *Characterization of Carbon Fiber Reinforced Epoxy Composites Modified with Nanoclay and Carbon Nanotubes.* Md Ekramul Islam, **Tanjheel H. Mahdi**, Mahesh V. Hosur, Shaik Jeelani. 6th BSME International Conference on Thermal Engineering (ICTE 2014), Dhaka, Bangladesh. **Procedia Engineering, ELSEVIER**, 105 (2015) 821 – 828. doi: 10.1016/j.proeng.2015.05.078.
10. *Low Velocity Impact Characterization of Carbon Fiber Reinforced Epoxy Composites Modified with Multi-Walled Carbon Nanotubes, Nanoclay and Hybrid Nanoparticles.* **H. Mahdi**, E. Islam, M.V. Hosur, S. Jeelani. SAMPE conference. October 21-24, 2013, **Wichita, Kansas, USA.**
11. *Numerical Investigation for Optimum Thermal Performance of a Solar Chimney*. M. F. Ismail, **H. Mahdi**, M. A. R. Sarkar. 5th International Conference on Sustainable Energy and Environmental Protection-SEEP 2012 , **Dublin City University, Ireland,** 5-8 June, 2012, Paper ID-S0323
12. *An aspect of biogas plants at Pabna district in Bangladesh.* **Mahdi, T.H.,** Hasib, Z.M., Ali, M., Sarkar, M.A.R. 2nd International Conference on the Development in Renewable Energy Technology. January 5-7, 2012, **Dhaka, Bangladesh.**
13. *Fabrication and Performance Test of a Solar Tracking Intelligence System Using MATLAB Graphical User Interface.* M. Hasib, **T.H. Mahdi**, A. Morshed and M.A.R. Sarkar. International Engineering conference on Hot Arid Regions (IECHAR 2010), 1-2 March**, Al-ahsa, Kingdom of Saudi Arabia.**
14. *Experimental Analysis on the Heat Transfer Performance of an Ammonia-charged Pulsating Heat pipe*. **H. Mahdi**, S. Ahmed, M.A.Y. Khan, M.M. Razzaque and C.M. Feroz. Conference on Engineering Research, Innovation and Education 2011 (CERIE 2011), 11-13 January, **Sylhet, Bangladesh.**

Md. Mafizul Islam

Assistant Professor

"The effect of quantum dot size, interdot distance and indium content on InxGa1–xN/GaN QD–IBSC", EICT'2013, KUET, Bangladesh.

Md. Golam Kibria

Assistant Professor

• Kibria Md. G, Chowdhury KP, Ashik AH, Riyad Md. EH. Wound Healing Functionality of Mangosteen Extracts on Viscose Fabric. Textile & Leather Review. 2022; 5:147-164.

• Alam, S. M. M., & Kibria, M. G. (2022). Sustainable Heat-setting Process in Stenter for Textile Industry. Materials Today: Proceedings.

• Alam SMM, Kibria MG, Islam S. Investigation of the basic properties of car seat fabrics applied in automotive textiles. J Textile Eng Fashion Technol. 2021;7(3):92-96.

• Kibria G, Rahman F, Chowdhurry D, Uddin N. Effects of printing with different thickeners on cotton fabric with reactive dyes. IOSR J Polym Textile Eng. 2018; 5(1):05-10.

Tarik Reza Toha

Lecturer

- **R. Toha**, M. M. R. Lunar, A. S. M. Rizvi, N. Nurain, and A. B. M. A. A. Islam, "GMC: Greening MapReduce Clusters Considering both Computational Energy and Cooling Energy," in Proceedings of the 52nd International Conference on Communications (ICC). Kansas City, MO, USA: IEEE, May 2018, pp. 1–6. [Online]. Available: https://doi.org/10.1109/ICC.2018.8422113
- M. Alam, B. Sarker, B. Biswas, K. H. Zubaer, **T. R. Toha**, N. Nurain, and A. B. M. A. A. Islam, "Towards Simulating Non-Lane Based Heterogeneous Road Traffic of Less Developed Countries," in Proceedings of the 5th International Conference on Information and Communication Technology for Sustainability (ICT4S), vol. 52. Toronto, ON, Canada: EasyChair, May 2018, pp. 37–48. [Online]. Available: https://doi.org/10.29007
- Ahmed, U. Kamal, **T. R. Toha**, N. Islam, and A. B. M. A. Al Islam, "Predicting Human Count through Environmental Sensing in Closed Indoor Settings," in Proceedings of the 15th International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous). New York City, NY, USA: ACM, November 2018, pp. 49–58. [Online]. Available: http://doi.org/10.1145/3286978.3287021
- S. M. Rizvi, **T. R. Toha**, S. S. Das, S. Chellappan, and A. B. M. A. A. Islam, "Exploiting a Synergy between Greedy Approach and NSGA for Scheduling in Computing Clusters," in Proceedings of the 5th International Conference on Networking, Systems and Security (NSysS). Dhaka, Bangladesh: IEEE, December 2018, accepted. **[Best Student Paper Award]**
- **R. Toha**, A. M. Ishmam, M. H. Islam, M. A. A. Maruf, S. S. Nandi, A. Chakraborty, S. Estyak, M. A. A. Alamin, and A. B. M. A. A. Islam, "An Approach Towards Greening the Digital Display System," in Proceedings of the 4th International Conference on Networking, Systems and Security (NSysS). Dhaka, Bangladesh: IEEE, December 2017, pp. 1–6. [Online]. Available: https://doi.org/10.1109/NSYSS2.2017.
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- Bhattacharjee, T. Tasnim, M. S. R. Sohel, A. Chakraborty, A. A. Maruf, S. Dutta, A. M. Ishmam, **T. R. Toha**, and A. B. M. A. A. Islam, "Service-Hub: A Better Approach for Developing the System of Online Marketing for Daily Services," in Proceedings of the 4th International Conference on Networking, Systems and Security (NSysS). Dhaka,

Bangladesh: IEEE, December 2017, pp. 1–5. [Online]. Available: https://doi.org/10.1109/NSYSS2.2017.8267801

- Rizvi, **T. R. Toha**, S. S. Das, S. Chellappan, and A. B. M. A. A. Islam, "Many-Objective Performance Enhancement in Computing Clusters," in Proceedings of the 36th International Performance Computing and Communications Conference (IPCCC). San Diego, CA, USA: IEEE, December 2017, pp. 1–2. [Online]. Available: https://doi.org/10.1109/PCCC.2017.8280491
- **R. Toha**, S. Estyak, T. A. Khan, T. Chakraborty, and A. B. M. A. A. Islam, "Sparse Mat: A Tale of Devising A Low-Cost Directional System for Pedestrian Counting," in Proceedings of the 3rd International Conference on Networking, Systems and Security (NSysS). Dhaka, Bangladesh: IEEE, January 2017, pp. 21–29. [Online]. Available: https://doi.org/10.1109/NSysS.2017.7885796 **[Best Paper Award]**
- S. M. Rizvi, **T. R. Toha**, M. M. R. Lunar, M. A. Adnan, and A. B. M. A. A. Islam, "Cooling Energy Integration in SimGrid," in Proceedings of the 3rd International Conference on Networking, Systems and Security (NSysS). Dhaka, Bangladesh: IEEE, January 2017, pp. 132–137. [Online]. Available: https://doi.org/10.1109/NSysS.2017.7885814
- **R. Toha**, M. M. Uddin, M. N. Reza, M. A. Al Maruf, A. Chakraborty, and A. B. M. A. A. Islam, "Towards Making an Anonymous and One-Stop Online Reporting System for Third-World Countries," in Proceedings of the 7th Annual Symposium on Computing for Development (DEV). Nairobi, Kenya: ACM, November 2016, pp. 24:1–24:4. [Online]. Available: https://doi.org/10.1145/3001913.3006633
- A. Shetu, **T. Toha**, M. M. R. Lunar, N. Nurain, and A. B. M. A. A. Islam, "Workload-Based Prediction of CPU Temperature and Usage for Small-Scale Distributed Systems," in Proceedings of the 4th International Conference on Computer Science and Network Technology (ICCSNT), vol. 01. Harbin, HLJ, China: IEEE, December 2015, pp. 1090–1093. [Online]. Available: https://doi.org/10.1109/ICCSNT.2015.7490925

Sultana Umme Habiba

Lecturer

1. **Sultana Umme Habiba**, Tanoy Debnath, Md Khairul Islam, Lutfun Nahar, Mohammad Shahadat Hossain, Nanziba Basnin, and Karl Andersson. "Transfer Learning-Assisted DementiaNet: A Four Layer Deep CNN for Accurate Alzheimer's Disease Detection from MRI Images." In *International Conference on Brain Informatics*, pp. 383-394. Cham: Springer Nature Switzerland, 2023.
2. Md. Khairul Islam, **Sultana Umme Habiba**, Tahsin Ahmed Khan, Farzana Tasnim, COV-RadNet: A Deep Convolutional Neural Network for Automatic Detection of COVID-19 from Chest X-Rays and CT Scans, Computer Methods and Programs in Biomedicine Update, Volume 2, 2022, 100064, ISSN 2666-9900
3. **Sultana Umme Habiba**, Md. Khairul Islam, Farzana Tasnim, Lutfun Nahar, Mohammad Shahadat Hossain, Karl Andersson "Brain-DeepNet: A Deep Learning Based Classifier For Brain Tumor Detection and Classification", 5th International Conference on Intelligent Computing & Optimization 2022 (ICO 2022)
4. Farzana Tasnim, **Sultana Umme Habiba**, Nuren Nafisa, AfsanaAhmed, "Depressive Bangla Text Detection from Social Media Post Using Different Data Mining Techniques", International Conference on Computational Intelligence in Machine Learning 2021, (ICCIML 2021). DOI: 10.1007/978-981-16-8484-5_21

5. **Sultana Umme Habiba**, Md. Khairul Islam, Farzana Tasnim, "A Comparative Study on Fake Job Post Prediction Using Different Data Mining Techniques", 2021 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST), DOI: 10.1109/ICREST51555.2021.9331230
6. Farzana Tasnim, **Sultana Umme Habiba**, "A Comparative Study on Heart Disease Prediction Using Data Mining Techniques and Feature Selection", 2021 2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST). DOI: 10.1109/ICREST51555.2021.9331158
7. **Sultana Umme Habiba**, Md. Khairul Islam, "Tomato Plant Diseases Classification Using Deep Learning Based Classifier From Leaves Images", International Conference on Information and Communication Technology for Sustainable Development (ICICT4SD), BUP, 27-28 February 2021. DOI: 10.1109/ICICT4SD50815.2021.9396883
8. Md. Khairul Islam, **Sultana Umme Habiba**, "Human Age Estimation and Gender Classification Using Deep Convolutional Neural Network", Cyber Security and Computer Science. ICONCS 2020. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 325. Springer, Cham. DOI: **10.1007/978-3-030-52856-0_40**
9. Md. Khairul Islam, **Sultana Umme Habiba**, Sk. Md. Masudul Ahsan, "Bangladeshi Plant Leaf Classification and Recognition Using YOLO Neural Network", International Conference on Innovation in Engineering and Technology (ICIET), University of Dhaka, 23-24 December 2019.
10. **Sultana Umme Habiba**, Md. Khairul Islam, Sk. Md. Masudul Ahsan, "Bangladeshi Plant Recognition using Deep Learning based Leaf Classification", 5th International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering, (IC4ME2), Rajshahi, Bangladesh, 11-12 July 2019. DOI: 10.1109/IC4ME247184.2019.9036515

Department of Physics

The department of physics has started journey as an independent since 2015. Physics is the most fundamental of the sciences that employs rigorous logic, mathematics, experimentation, and critical reasoning. Physics Department design courses theoretical and practical to equip undergraduate student to develop the basic scientific skills in textiles. Our Physics Lab is organized on mechanical, optical, electrical, and thermal based experiments.

The teachers of this department with high professional, intellectual and ethical standards are actively engaged in teaching and research. Our mission is to provide basic physics in the area of Textiles Physics to fulfill the demand of the country. We are strongly committed to both teaching and research excellence.

Vision

To build a foundation for excellence and encourage the development of the university by igniting and promoting enthusiasm, interests and passion in the study of physics.

Mission

The Department aspires to provide the best scientific methods in teaching the basic principles of physics, both theoretical and experimental and puts most of time to keep the level of education and scientific research.

Objectives

- Configure a basic of physics curriculum and smooth study plan.
- Provide a sophisticated level of physics education for teaching of undergraduate and graduate studies.
- Work in the completion of applied research, basic scientific research, experimental (theoretical and applied).
- Support and encourage the scientific cooperation between faculty members in the department and cooperation with other departments in the field of multi-purpose research.
- To awaken the young minds and discover their talents both in theory and in practical physics.
- Spread the spirit of competition and encouragement and give the opportunity to all students.
- To develop strategy in the department for continuous improvement.

FACULTY MEMBERS

Dr. Hasina Akter
Associate Professor & Head of the Department
Dr. Tanu Shree Roy
Associate Professor
Md. Hedayet Ullah
Assistant Professor
Md. Harun Or Rashid
Assistant Professor
Mr. Lincoln Paik
Assistant Professor
Dr. Md. Murad Ahmed
Assistant Professor
Rajia Sultana
Lecturer

Officer's

Physics Lab
Md. Zakaria Rahman
Senior Technical Officer
Md. Abdur Razzak
Technical Officer
Md. Ariful Islam
Assistant Technical Officer

Publication & Research

Dr. Hasina Akter

Associate Professor

Sl. No	Title of the Research Paper	Name of the Researcher	Volume	Issue	Year of Publication
1	Carrier transport mechanisms of iodine-doped plasma polymerised N, N, 3, 5 tetramethylaniline thin films	**H. Akther** , M. Mahbubur Rahman, A.H. Bhuiyan etc	Vol 31, 103327, Materials Today Communications	https://doi.org/10.1016/j.mtcomm.2022.103377	2022
2	Understanding the enhancement of the optical and electronic attributes of iodine-doped vacuum deposited tetramethylaniline (PPTMA) thin film coatings	**Hasina Akther** , A.H. Bhuiyan , M. Mahbubur Rahman etc	Vol 874 159989, Journal of Alloys and Compounds	https://doi.org/10.1016/j.jallcom.2021.159989	2021
3	Surface modification and improvements of wicking properties and dyeability of grey jute-cotton blended fabrics using low-pressure glow discharge air plasma	M.Hedayet Ullah , **Hasina Akther** , M.Mahbubur Rahman , A.B.M. Foisal , M.Mahmud Hasan , S.M. Amir-Al Zumahi , Amun Amri	Vol. 7, 07893 Heliyon	https://doi.org/10.1016/j.heliyon.2021.e07893	2021

4.	Nonlinear wave solutions of cylindrical KdV-Burgers equation in nonextensive plasmas for astrophysical objects	U M Abdelsalam, M S Zobaer, **H. Akther,** M.G. M. Ghazal, M.M. Fares	Vol 137(6), 1061 Acta Physica Polonica A,	https:// doi: 10.12693/APhysPolA.137.1061	2020
5	Effect of film thickness on topographic, microstructural, optical and dielectric behaviour of PPMBA thin films	Rahima Nasrina, Humayun Kabir , **Hasina Akther**, A.H. Bhuiyan	Vol 19 103357, Results in Physics	https://doi.org/10.1016/j.rinp.2020.103357	2020
6	Chemical Analysis of Plasma Polymerized N,N,3,5 tetramethylaniline by X-ray Photoelectron Spectroscopy	**H. Akther** and J. A. Syed	Vol 7(1): 07-12 Int. j. eng. Technol.	www.gurpukur.com or www.gscience.net	2020
7.	Dielectric properties of plasma-polymerized N, N, 3, 5-tetra methylaniline thin films	**H. Akther** and A. H. Bhuiyan	Vol 18, 53-60 Surface Review and Letters	DOI: 10.1142/S0218625X11014485	2011
8.	Space charge limited conduction in plasma polymerized N, N, 3, 5, tetramethylaniline thin films	**H. Akther** and A. H. Bhuiyan	Vol 488, 93-97 Thin Solid Films,	https://doi.org/10.1016/j.tsf.2005.04.110	2005
9.	Electrical and Optical	**H. Akther** and A. H. Bhuiyan	Vol 7 173 New J. Phys.	**DOI** 10.1088/1367-2630/7/1/173	2005

	properties of plasma-polymerized N, N, 3, 5-tetramethylaniline thin films				
10.	Infrared and ultraviolet-visible spectrosc. investigation of plasma polymerized N, N, 3, 5-tetramethylaniline thin films	**H. Akther** and A. H. Bhuiyan	Vol 474, 14-18, Thin Solid Films,	https://doi.org/10.1016/j.tsf.2004.07.050	2005
11.	Study of Adsorption of $(CH_3)_2S$ on Cu(111) Surface	J.A. Syed, A.T.M.K. Jamil, **H. Akther**	Vol 32(2), 95-100 Jahangirnagar Univer. J. of Sci.	National	2009
12.	Determination of Graded-Index Profile of optical fiber by computational experiment	K.M. Rezanur Rahman, **H. Akther** and M.R. Amin	Vol 24, 185-189 Jahangirnagar Univer. J. of Sci.	National	2007
13.	Preparation and chemical analysis of plasma polymerized N,N,3,5 tetramethylaniline	**H. Akther**, A. H. Bhuiyan, Md.Asaduzzaman and J.A. Syed	ICME11 -RT-051	Conference Paper	2011

Dr. Tanu Shree Roy

Associate Professor

List of Journal Papers

Serial	Title of the Research Paper	Name of the Researcher	Volume	Issue	Year of Publication
1.	Incorporation of Ag-Doped Zno Nanorod through Graphite Hybridization: Effective Approach for Degradation of Ciprofloxacin	Tanu Shree Roy, Surya Akter, Monabbir Rafsan Fahim , Md. Abdul Gafur, Tahmina Ferdous	Vol . 9,no. 2 (2023) e13130 Heliyon	https://doi.org/10.1016/j.heliyon.2023.e13130	2023
2.	Eco-Friendly Synthesis of Silver Nanoparticles for Multifunctional Protective Cotton and Flax Fabrics	Tanu Shree Roy, Monabbir Rafsan Fahim, M. Tauhidul Islam, Md.Abdul Gafur & Tahmina Ferdous	Vol.19,Issue 16 pp.13681–93 Journal of Natural Fibers	https://doi.org/10.1080/15440478.2022.2104775	2022
3.	Electrostatic Ion-Acoustic Shock Waves in a Magnetized Degenerate Quantum Plasma	Sharmin Jahan, Booshrat E. Sharmin, Nure Alam Chowdhury, Abdul Mannan, Tanu Shree Roy, and A A Mamun	Vol.4, pp. 426-434, plasma	https://doi.org/10.3390/plasma4030031	2021
4.	Modulational instability of dust-ion-acoustic waves in pair-ion plasma having non-thermal non-extensive electrons	M.K. Islam, A.A. Noman, J. Akter, N.A. Chowdhury, A. Mannan, T.S. Roy, M. Salahuddin, A.A. Mamun	pp-1-12 Contributions to Plasma Physics	https://doi.org/10.1002/ctpp.202000214	2021
5	First and second-order dust-ion-acoustic rogue waves in non-thermal plasma	Banik, S., R. K. Shikha, A. A. Noman, N. A. Chowdhury, A. Mannan, T. S. Roy, and A. A. Mamun	Vol.75,no2 The European Physical Journal D	https://doi.org/10.1140/epjd/s10053-020-00033-z	2021

6	The Development of Zno Nanoparticle Coated Cotton Fabrics for Antifungal and Antibacterial Applications	Tanu Shree Roy, Siraj Ud Daula Shamim, Md. Khalidur Rahman, F. Ahmed, M. A. Gafur	Vol.11,pp 601-610 Materials Sciences and Applications	https://doi.org/10.4236/msa.2020.119040	2020
7	Design and Development of Floor Contamination Monitor for Gamma Ray Measurement	Mahedee Hasan, Kazi Golam Martuza, Tanu Shree Roy, Ashraf Mehbub, Humayun Kabir, Farhana	Vol.4, Issue 6, pp. 23-30 International Journal of Research in Electronics & Communication Technology	DOA:03012017	2016
8	Design and Development of Low Cost Security Alarm Using Optoelectronic Device	Md. Barkat Ullah, Humayun Kabir, Tanu Shree Roy, Ashraf Mehbub, Kazi Golam Martuza, Md. Ramjan Ali, Md. Abdul Mannan Chowdhury	Vol.10, Issue 4, Ver. I, pp. 19-23 IOSR Journal of Electronics and Communication Engineering (IOSR-JECE)	DOI:10.9790/2834-10411923	2015
9	Simple Discussion on Stepper Motors for the Development of Electronic Device	Tanu Shree Roy, Humayun Kabir, Md A. Mannan Chowdhury	Vol.5, Issue 1, pp. 1089-1096 International Journal of Scientific & Engineering Research		2014
10	Structural And Optical Properties Of Plasma Polymerized Pyromucic Aldehyde Thin Films	Humayun Kabir, M. Mahbubur Rahman, Tanu Shree Roy, A.H. Bhuiyan	Vol.12 No:05 pp. 30-34 International Journal of Mechanical & Mechatronics Engineering IJMME-IJENS		2012

11	Bio-chemical synthesis of silver nanoparticles and coated on Cotton and Flax fabrics	International Conference on Science and Technology for Celebrating the Birth Centenary of Bangabandhu (ICSTB-2021) OP-K31, pp. 386		T. S. Roy, F. Ahmed, M. A. Gafur	2021, Bangladesh
12	The development of ZnO nanoparticle coated different fabrics for medical applications	BCSIR Congress 2019		T. S. Roy, F. Ahmed, M. A. Gafur	

Md. Hedayet Ullah

Assistant Professor

Serial	Title of the Research Paper	Name of the Researcher	Volume	Issue	Year of Publication
1.	Laser-Induced Breakdown Spectroscopy (LIBS) for Trace Element Detection: A Review	Z. H. Khan , M. Hedayet Ullah , Bulu Rahman , Aminul I. Talukder, Md. Wahadoszamen , K. M. Abedin , and A. F. M. Y. Haider	Vol. 2022, pp.1-25, Journal of Spectroscopy	https://doi.org/10.1155/2022/3887038	2022
2.	Surface modification and improvements of wicking properties and dyeability of grey jute-cotton blended	M.Hedayet Ullah , Hasina Akther , M.Mahbubur Rahman , A.B.M. Foisal , M.Mahmud Hasan , S.M. Amir-Al	Vol. 7, e 07893 Heliyon	https://doi.org/10.1016/j.heliyon.2021.e07893	2021

	fabrics using low-pressure glow discharge air plasma	Zumahi , Amun Amri			
3.	Detection of trace amount of arsenic in groundwater by laser-induced breakdown spectroscopy and adsorption	A.F.M.Y. Haider , M. Hedayet Ullah, Z.H. Khan, Firoza Kabir, K.M. Abedin	Vol.56, pp.299-303, Optics & Laser Technology	http://dx.doi.org/10.1016/j.optlastec.2013.09.002	2014
4.	Elemental Profiling and Identification of Eco-Toxic Elements in Agricultural Soil by Laser-Induced Breakdown Spectroscopy	Abul F.M.Y. Haider , Firoza Kabir, M. Hedayet Ullah, Z.H. Khan, Kazi M. Abedin	Vol. 1, No. 4, pp.41-44, Applied Ecology and Environmental Sciences	DOI:10.12691/aees-1-4-1	2013

Md. Harun Or Rashid

Assistant Professor

• Md. Harun-Or-Rashid, Md. Mahfuzur Rahman, M. Arifuzzaman, A.K.M. Akther Hossain. Structural, magnetic, and electrical properties of Ni0.38-xCu0.15+yZn0.47+x-yFe2O4 synthesized by sol-gel auto-combustion technique. Journal of Materials Science: Materials in Electronics, Springer Nature (2021).
• M. Nazrul Islam, Md. Harun-Or-Rashid, Roksana Parvin, A.K.M. Akther Hossain. Improvement of microstructure and initial permeability of Mn0.5Ni0.1Zn0.4GdxFe2-xO4 with sintering temperature. Journal of Results in Physics, Elsevier (2021).
• Md. Harun-Or-Rashid, M. Nazrul Islam, M. Arifuzzaman, A.K.M. Akther Hossain. Effect of sintering temperature on the structural, morphological, electrical and magnetic properties of Ni-Cu-Zn and Ni-Cu-Zn-Sc ferrites. Journal of Materials Science: Materials in Electronics, Springer Nature (2021).
• M. Arifuzzaman, M. B. Hossen, Md. Harun-Or-Rashid, M. L. Rahman. Structural and magnetic properties of nanocrystalline Ni0.7-xCuxCd0.3Fe2O4 prepared through Sol-gel method. Journal of Materials Characterizations, Elsevier 171 (2021) 110810.
• M.H. Rashid, A.K.M. Akther Hossain. Structural, morphological and electromagnetic properties of Sc3+ doped Ni-Cu-Zn ferrites. Journal of Results in Physics, Elsevier, 11 (2018) 888-895.
• M.H. Rashid, J. Rabeya, M.H. Doha, O. Islam, P. Reith, G. Hopman, H. Hilgenkam. Characterization of single step electrodeposition Cu2ZnSnS4 thin films. Journal of Optics, Springer Nature, 47 (2018) 256.

Mr. Lincoln Paik

Assistant Professor

• Dy-doped MoO3 nanobelts synthesized via hydrothermal route: Influence of Dy contents on the structural, morphological and optical properties.
(https://doi.org/10.1016/j.jallcom.2021.160070)

Dr. Md. Murad Ahmed

Assistant Professor

Serial	Title of the Research Paper	Name of the Researcher	Volume	Issue	Year of Publication
1	β−γ spectroscopy of the ^{195}Os nucleus	**M. Ahmed**, Y. X. Watanabe, Y. Hirayama, M. Mukai et al.	Phys. Rev. C 103, 054312	DOI:https://doi.org/10.1103/PhysRevC.103.054312	2021, USA
2	First direct observation of isomeric decay in neutron-rich odd-odd ^{186}Ta	Y. X. Watanabe, P. M. Walker, Y. Hirayama, M. Mukai. **M. Ahmed** et al.	Phys. Rev. C 104, 024330	DOI:https://doi.org/10.1103/PhysRevC.104.024330	2021, USA
3	Deexcitation γ-ray transitions from the long-lived $I^{\pi}=13/2^{+}$ metastable state in ^{195}Os	Y. X. Watanabe,..**M. Ahmed**, Y. Hirayama, M. Mukai et al.	Phys. Rev. C **101**, 041305(R)	DOI:https://doi.org/10.1103/PhysRevC.101.041305	2020, USA
4	Properties of ^{187}Ta Revealed through Isomeric Decay	P. M. Walker, Y. Hirayama, G. J. Lane, H. Watanabe, G. D. Dracoulis, **M. Ahmed**, M., X. Y. Watanabe et al.	Phys. Rev. Lett. 125, 192505	DOI:https://doi.org/10.1103/PhysRevLett.125.192505	2020, USA
5	Nuclear spectroscopy of r-process nuclei using KEK Isotope Separation System	Y. Hirayama, Y.X. Watanabe, M. Mukai, P. Schury, **M. Ahmed** et al.	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms 463, 425-430	doi:10.1088/1742-6596/1643/1/012138	2020, Netherlands
6	Development of a multi-segmented proportional gas counter b-decay spectroscopy at KISS	M. Mukai,Y. Hirayama, P. Schury, Y. X Watanabe, **M. Ahmed**, H. Miyatake et al.	Nuclear Instruments and Methods in Physics Research B,10,1016	https://doi.org/10.1016/j.nimb.2019.04.036	2019, Netherlands
7	b- and g- decay spectroscopy of ^{197,198}Os	Y. Hirayama, Y. X Watanabe, M. Mukai, **M. Ahmed**, H. Miyatake et al.	Physical Review C, 98	https://doi.org/10.1016/j.nimb.2019.04.035	2018, USA
8	High-efficiency and low back-ground multi-segmented proportional gas counter for beta decay spectroscopy	M. Mukai,Y. Hirayama, Y. X Watanabe, P. Schury, H. S. Jung, **M. Ahmed**, H. Miyatake et al.	Nuclear Instruments and Methods in Physics Research A, 884	https://doi.org/10.1016/j.nima.2017.12.013	2018, Netherlands
9	In-gas-cell laser spectroscopy of magnetic dipole	Y. Hirayama, M. Mukai, Y. X Watanabe, **M. Ahmed**,	Physical Review C, 96	DOI:https://doi.org/10.1103/PhysRevC.96.014307	2017, USA

	moment of the $N = 126$ isotope ^{199}Pt	H. Miyatake et al.			
10	Doughnut-shaped gas cell for KEK Isotope Separation System	Y. Hirayama, Y.X Watanabe, M. Mukai, M. Oyaizu, **M. Ahmed**, H. Miyatake et al.	Nuclear Instruments and Methods in Physics Research B, 412	https://doi.org/10.1016/j.nimb.2017.08.037	2017, Netherlands
11	Ionization cross section, pressure shift measurements of osmium	Yoshikazu Hirayama, Momo Mukai, Yutaka Watanabe, **Murad Ahmed** et al.	Journal of Physics B: Atomic Molecular and Optical Physics, 50	**DOI** 10.1088/1361-6455/aa8b50	2017, U. K
12	Nuclear spectroscopy of r-process nuclei around N = 126 using KISS	Y. Hirayama, Y. X Watanabe, H.Miyatake, **M. Ahmed** et al.	IL Nuovo Cimento, C, 39,	DOI 10.1393/ncc/i2016-16359-9	2016, Switzerland
13	Natural Radioactivity and dose assessment in sand and sediment samples from Kuakata beach, Bangladesh	**Md. Murad Ahmed**, Suranjan Kumar Das**, Selina Yeasmin**	J. Bangladesh Acad. Sci., Vol. 40, No. 1,		2016, Bangladesh
14	Measurement of the natural radioactivity and radiological hazard of soil, sand and sediment samples collected from coastal area, Cox's bazar, Bangladesh	Sariful, Suranjan Kumar Das**, **Md. Murad Ahmed**, Selina Yeasmin**	J. Bangladesh Acad. Sci., Vol. 39, No. 2		2015, Bangladesh
15	Study of natural radioactivity and radiological hazard of sand, sediment and soil samples from Inani Beach, Cox's Bazar, Bangladesh	**M. M. Ahmed**, Suranjan Kumar Das**, M. A Hayder, M. M. H. Bhuiyan, M. I. Ali, D. Paul**	Journal of Nuclear and Particle Physics, 4(2),		

Rajia Sultana

Lecturer

Serial	Title of the Research Paper	Name of the Researcher	Journal Name	Issue	Year of Publication
1.	A Study on Light Traps for Attracting and Killing the Insects Using PKL Electricity	K. A. Khan, Rajia Sultana ,Shahinul Islam,and S. M. Zian Reza	Springer Nature Singapure pte Ltd 2021	https://doi.org/10.1007/978-981-33-6915-3_14	2021
2.	PKL Electricity-An Observation	Md. Afzol Hossain , Md Ohiduzzaman, Rajia Sultana, Rajeda Khatun, Shirin Akter,K. A. Khan, and Mehedi hasan	Springer Nature Singapure pte Ltd 2021	https://doi.org/10.1007/978-981-33-6915-3_53	2021
3.	Portable PKL Powered Lantern	Md. Ohiduzzaman, Rajia Sultana, Rajada Khatun, Shirin Akter, and K. A. Khan	Ethics and Information Technology (ETIT)	DOI: http://doi.org/10.26480/etit.02.2020.179.183	2021

Department of Chemistry

Among the four departments under the Faculty of Science and Engineering, the department of Chemistry is one of the promising departments' of Textile University. Chemistry is the central science of innovation, information, technology and development. The department of chemistry acts as a base for all engineering department of BUTEX. It is a highly specialized branch in the areas of dyeing and finishing chemistry, fiber and polymer chemistry, and a newer area that intersects with materials science and effluent treatments of textile waste water. The research is on doing things better (quicker, cheaper) and with a lower adverse environmental impact than offered by conventional technology to improve textile handle, water repellency and laundering properties. Undergraduate and graduate laboratories of the department are soon going to be enriched under the project.

The department also focuses on providing masters degree on chemistry to create opportunity of higher education and research in growing need of textile, textile effluents and garments industry.

Vision

To be a window of modern age through research, innovative works and establishing new dimension between textile and chemistry.

Mission

- To ensure a dynamic and encouraging learning environment and research based educational class room and laboratory.
- To acts as a base for all branches of science like textile engineering.
- To strengthen the students providing quality teaching and make them capable to cope with leadership, teamwork, problem solving, career preparation, ethics.
- To enhance collaboration between institutional knowledge and industrial knowledge.
- To carry out collaborative projects that offer long term innovative works.

Objectives

- Impart quality education by updating and adopting outcome based curriculum.
- Provide high quality education for the undergraduate and graduate program on textile chemistry.

FACULTY MEMBERS

Dr.Nargish Jahan Ara
Professor
Dr. Md. Samiul Islam Chowdhury
Professor & Head of the Department
Dr. A M Azmal Morshed
Associate Professor
Md. Farhadur Rahman
Assistant Professor
Farzana Yasmin
Assistant Professor
Sadia Salsabil Bristy
Assistant Professor
Md. Mizanoor Rahman
Lecturer
Afnan bin Siddique
Lecturer
Nazmul Hossain
Lecturer

Officer's

Chemistry Lab

Md. Jahangir Hossen
Senior Technical Officer
Md. Ataur Rahman
Technical Officer
Md.Kamrojjaman
Assistant Technical Officer

Publication & Research

Dr. Md. Samiul Islam Chowdhury

Professor

Sl No.	Title of the Paper	Name of the Journal with Vol. No. pp	Year and Country of Publication	Name of Author(s)*	Types of Publication**
1	Synthesis of homo- and copolymer containing sulfonic acid via atom transfer radical polymerization.	*Taylor & Francis* Vol. 25, pp 261-270	**2022** UK	Md. Wali Ullah, Naoki Haraguchi, Md. Azgar Ali, Md. Rabiul Alama, and **Samiul Islam Chowdhury**	Research Article
2	Polymerization of Styrene Derivatives Using Anilinonaphthoquinone-Ligated Nickel Complexes and Thermal/Rheological Properties of the Produced Polymers	*Macromolecular Chemistry and Physics*, Vol. 223, pp 2100402(1-6)	**2022** USA	**Samiul Islam Chowdhury**, Takumitsu Kida, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono	Research Article
3	Synthesis and antimicrobial activity of chalcone containing polystyrene	*Indian Journal of Chemistry*, Vol. 60B, pp 456-464	**2021** India	Farhana Sumi Rain, Tariqul Hasan, **Samiul Islam Chowdhury** & Roushown Ali	Research Article
4	Effect of Flexible Chain on Mesomorphic Properties of Alkyloxy Substituted 4-Chloroazobenzene Liquid Crystals	Asian Journal of Chemistry Vol. 33, pp 1159-1164	**2021** India	Kamruzzaman, Roushown Ali, Rabiul Karim, **Samiul Islam Chowdhury** and Tariqul Hasan	Research Article
5	Copolymerization of norbornene and conjugated dienes using anilinonaphthoquinone-ligated nickel complexes	*Polymer* Vol.187, pp 122094.	**2020** Netherlands	**Samiul Islam Chowdhury**, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono	Research Article
6	Synthesis of norbornene/divinylbenzene copolymers catalyzed by anilinonaphthoquinone-ligated nickel complexes and their applications for the synthesis of graft polymers	*Journal of Polymer Science part A polymer Chemistry*, Vol. 58, pp 1564–1570	**2020** USA	**Samiul Islam Chowdhury**, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono	Research Article

7	Coordination-Insertion Copolymerization of Norborneneand *p*-Substituted Styrenes Using Anilinonaphthoquinone-Ligated Nickel Complexes.	*Macromolecular Chemistry and Physics*, Vol. 221(5), pp 1900494.	**2020** USA	**Samiul Islam Chowdhury**, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono	Research Article
8	Copolymerization of Styrene and [Poly(ethylene glycol) methyl ether] Methacrylate using Reverse Atom Transfer Radical Polymerization	*Chemical Science & Engineering Research*, Vol. 2, pp 34-38	**2020** India	Lamya Zahir, Nargish Jahan Ara and **Samiul Islam Chowdhury**	Research Article
9	Copolymerization of Norbornene and Styrene withAnilinonaphthoquinone-Ligated Nickel Complexes.	*Polymers* Vol. 11 (7), pp 1100.	**2019** Switzerland	**Samiul Islam Chowdhury**, Ryo Tanaka, Yuushou Nakayama, Takeshi Shiono	Research Article
10	Kinetic Studies on Bulk Atom Transfer Radical Polymerization of Styrene	*American Journal of Polymer Science and Technology* Vol. 3, pp 103-107	**2017** USA	**Samiul Islam Chowdhury**, Lamya Zahir, Tariqul Hasan	Research Article
11	Synthesis of Well-Defined Vinyl End-Functional Polystyrene Using Multifunctional Initiator by Atom Transfer Radical Polymerization.	*American Journal of Applied Sciences*, Vol. 12 (8), pp 581-587.	**2015** UAE	**Samiul Islam Chowdhury**, Roushown Ali and Tariqul Hasan	Research Article
12	Synthesis and Characterization of Mono and Di arm α-halo esters as aInitiator for Atom Transfer Radical Polymerization	*Research Journal of Chemical Sciences*, Vol. 5 pp 41-45	**2015** India	Homayun Kabir, **Samiul Islam Chowdhury**, Tariqul Hasan	Research Article
13	Synthesis and Characterization of Dioxolane α-bromoester from Glycerol and Its Application as Initiator on theAtom Transfer Radical Polymerization	*Journal of Chemical, Biological and Physical Science;* Section A: Chemical Sciences Vol. 5, pp 2706-2722	**2015** India	**Samiul Islam Chowdhury**, Tariqul Hasan	Research Article

14	Synthesis of Well-defined Dihydroxyl End-Functional Polystyrene using Trifunctional Initiator via Atom Transfer Radical Polymerization.	*American International Journal of Research in Science, Technology, Engineering & Mathematics* Vol: 9(2), pp 113-118	**2015** USA	**Samiul Islam Chowdhury**, Tariqul Hasan	Research Article
15	Effect of Spacer Length from Vinyl Group of Vinyl-bromoester Initiator on Atom Transfer Radical Polymerization of Styrene.	*American International Journal of Research in Science, Technology, Engineering & Mathematics* Vol: 9(3), pp 212-215	**2015** USA	**Samiul Islam Chowdhury**, Tariqul Hasan	Research Article

Dr. A M Azmal Morshed

Associate Professor

1. **Abu Mohammad Azmal Morshed** , Md. K I. Sharker and Md. Abdul Khaleque," A Application of Nanotechnology in the medical Sciences: A new horizon of treatment" Am. Journal of Biomed. Sci., **9(1),** 1-14(2017).
2. Kaniz Fatema, T A Trisha, Abu Mohammad Azmal Morshed, Md. Moyen Uddin Pk., Tanzina Akter, Bushra Jannat and Suvomoy Datta," An Epidemiological Study of Antibiotic Resistance of Salmonella typi and Salmonella Paratypi-A from Clinical Sample in Dhaka City, Vol. 8(4), P. 1-5,(2016).
3. **Abu Mohammad Azmal Morshed** and Md. Mujibor Rahman," *A Physico-Chemical Studies on dyeing progress variables and dyeing Kinetics of Natural Dyes*" ***IOSR Journal of Polymer and Textile Engineering (IOSR-JPTE),* Vol. 2(3), 71-75, (January-2016).**
4. Moyen Uddin Pk, **Abu Mohammad Azmal Morshed**, Kaniz Fathema and Saiful Islam ,"*Prevalence of Herpes Simplex Virus (HSV) infection among Adults Citizens of Dhaka, Bangladesh: A Statistical Inferences"* ***J. of Blood Disorders Transfusion* , Vol.5(1)**, 1000-1003,(August, 2015).
5. Md. Ehsanul Huq, **Abu Mohammad Azmal Morshed** and W. E. Sneader ,"*Barbiturate Esters as Intravenous Anesthetics: A new Dimension of Anesthesia Route"***. Archives of Medicine, 7(3),** 8-12,(April-2015).
6. **Abu Mohammad Azmal Morshed ,"***Root Reasons behind the Unusual Behaviors of the Earth climate thus the causes of Natural Disasters"* ***IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT),* 7(2), p. 5-7 ,(Nov-2013).**

7. Moyen Uddin Pk and **Abu Mohammad Azmal Morshed,"** *Prevalence of HBsAg and Anti-HCV Positivity among Blood Donors: Experience in a Private Hospital of Dhaka, Bangladesh",* ***J. of Blood Disorders Transfusion***, **4(5),** 154-156, (Sep-2013)
8. **Abu Mohammad Azmal Morshed** and T. H. Yoon, "*Surfactant Induced Photostability Enhancements of Thiol Coated Quantum Dot Nanocolloids". **Korean Chem. Soc**.,* **29(1),**p.249-251,(2008).
9. Kabir-ud-Din, **Abu Mohammad Azmal Morshed** and Z. Khan,"*Redox behavior of D-mannose and chromium (VI) in the presence and absence of micelles and inorganic salts", **Indian Journal of Chemistry, 43B,*** p.2178-2188, (2004).
10. Kabir-ud-Din, **Abu Mohammad Azmal Morshed** and Z. Khan, "*The Role of Manganese (II), Micelles and Inorganic Salts on the Kinetics of the Redox Reaction of L-Sorbose and Chromium (VI)".**International Journal of Chemical Kinetics,*** **35**, p.543–554,(2003)**.**
11. Kabir-ud-Din, **Abu Mohammad Azmal Morshed** and Z. Khan, "*Micellar Effects on the Oxidation of D-Glucose by Chromic Acid in Perchloric Acidic Medium*", ***Journal of Carbohydrate Chemistry***, **22**, p.835-858, (2003).
12. Kabir-ud-Din, **Abu Mohammad Azmal Morshed** and Z. Khan," *Influence of Sodium Dodecyl Sulfate/Triton X-100 Micelles on the Oxidation of D-fructose by Chromic acid in presence of $HClO_4$". **Carbohydrate Research,*** **337(17)**, p.1573-1583, *(2002)***.**
13. Kabir-ud-Din, **Abu Mohammad Azmal Morshed** and Z. Khan," *Micellar Effects on the chromium (VI) oxidation of D(+)-xylose" **Inorganic Reaction Mechanisms***, **3(4)**, p.255-266, (2002).
14. Kabir-ud-Din, **Abu Mohammad Azmal Morshed** and Z. Khan, "*Oxidative Degradation of L(+)arabinose by Chromium(VI) in absence and presence of/Sodium Dodecyl Sulfate and TX-100 Micelles*". ***Oxidation Communication***, **26**, p.59-71 , (2003).

Md. Farhadur Rahman

Assistant Professor

- Mohammad Farhadur Rahman, Nargish Jahan Ara, Mohammad Mesbah Uddin, Mohammad Zakir Sultan. Toxic Effects of Levafix Blue CA and Levafix Amber CA Reactive Dyes on Liver and Kidney in Mice. *International Journal of Nutrition and Food Sciences*, 6, No. 5, 2017 pp. 187-193. doi: 10.11648/j.ijnfs.20170605.11
- Mohammad Farhadur Rahman, Nargish Jahan Ara, Bishnu Pada Dey, Mohammad Zakir Sultan. Toxic Effects of Coralene Red XF and Remazol Red RR Textile Dyes on Liver and Kidney in Mice. *International Journal of Food Science and Biotechnology*.Vol. 2, No. 4, 2017, pp. 97-102. doi: 10.11648/j.ijfsb.20170204.14
- Farhadur RM; Anisur RM; Zakir, SM and Abdus, SM (2017), "Study of Drug-Drug Interaction and Simultaneous Estimation of a new Combinational Drug by DSC and HPLC." *International Journal of Drug Research and Technology,* 7 (4), 180-194
- Mohammad Farhadur Rahman, Md. Zakir Sultan, Asma Rahman, Md. Anisur Rahman and Md. Abdus Salam. Simultaneous Estimation of Antihypertensive and Antidiabetic Drugs by HPLC. *Research and Reviews: Journal of Pharmaceutical Quality Assurance* (2015), Volume 1 (1), 25-29
- Mohammad Farhadur Rahman, Md. Abdus Salam, Asma Rahman and Md. Zakir Sultan. 2017. Studies of Interactions of Valsartan, Glimepiride and Ciprofloxacin HCl by DSC and HPLC. *Bangladesh Pharmaceutical Journal 20(2): 195-200*

Afnan bin Siddique

Lecturer

Publication:

"Synthesis, structure and photophysical properties of mono- and di-nuclear platinum (II) acetylide complexes"- Journal of organometallic chemistry, Vol.950, Page. 121970, 2021.

Nazmul Hossain

Lecturer

Publications:

1. **Nazmul Hossain**, Md. Ismail Hossain, Parbhej Ahamed and Mohammad Abu Yousuf "Binary Solvent System for Extraction of Cathode Material From Spent Li -ion Batteries." *Dhaka University Journal of Science* (2022): 225-
2. Hossain M. M. and **M. N. Hossain**. "Determination of Quality Index for Surface and Ground Water of Jashore, Bangladesh." *Annals of Bangladesh Agriculture* 25.1 (2021): 117-122.

3. M.Shahidul Islam, Suman C.Mohanta, Md.Abu Bakar Siddique, M. Abdullah -Al-Mamun, **Nazmul Hossain**, Ummey Hafsa Bithi "Physico-chemical assessment of water quality parameters in Rupsha river of Khulna region, Bangladesh." *Int. J. Eng. Sci* 7.1 (2018).

Department of Mathematics and Statistics

Vision

To carry out the vision of the university by achieving the excellence in teaching and research in the field of Mathematics, Statistics and Engineering

Mission

The Department of Mathematics and Statistics engages in the discovery and dissemination of mathematical knowledge at all levels-professional, graduate and undergraduate. The Department conducts fundamental research in pure mathematics, applied Mathematics and Statistics. Publications in peer-reviewed journals and participation in conferences, seminars are the hallmarks of the department's scientific activities.

Objectives

To equip the graduates with Mathematical and Statistical Knowledge and allow them to utilize this Knowledge in solving problems related to their respective areas.

FACULTY MEMBERS

Dr. Anup Kumar Datta
Associate Professor & Head of the Department
Md. Rokonuzzaman
Assistant Professor
Margia Yesmin
Assistant Professor
Md. Kawsarul Islam
Assistant Professor
Md. Anowar Hossain
Assistant Professor

Publication & Research

Md. Rokonuzzaman

Assistant Professor

Serial	Title of the research paper	Name of the Researchers	Name of Journal/doi	Volume/ Issue	Year of Publication
01	Effect of quantity based discount frame in inventory planning under time dependent demand: A case study of mango business in Bangladesh	Md. Rukonuzzaman Md. Al-Amin Khan Aminur Rahman Khan Ali Al Arjani Md. Sharif Uddin El-Awady Attia	ScienceDirect Journal of King Saud University-Science https://doi.org/10.1016/ j.jksus.2023.102480	Paper is accepted and Peer reviewed, that is not yet assigned to volume/ issue but is citable using DOI	09 August,2023

Md. Anowar Hossain

Assistant Professor

LIST OF PUBLICATIONS:

A. Hossain, M.S. Ali: Entitled-Study on Exterior Algebra Bundle and Differential Forms by Annals of Pure and Applied Mathematics, Volume 05, No. 02, 2014, 198-207

Chowdhury, D.F. Wahid, and M.A. Hossain: entitled- Proof of 'J is a Radical Class' Using Amitsur Theorem, by Global Journal of Science Frontier Research Mathematics and Decision Sciences, Volume 12, Issue 12, Version 1.0,Year 2012, 12-20

N Siddiki, M. Roy and M. A. Hossain: entitled- Numerical solution of large system of linear equations using several methods and its applications by Novus Natural Science Research, Vol. 3, No. 1, 2014

A. Hossain, M. A. Halim: entitled-Study of Grassmann Algebra with Differential Forms by International Journal of Scientific & Engineering Research, Volume 7, Issue 4, April-2016

K. S. Uddin, M. N. Siddiki, M. A. Hossain: entitled-Numerical Solution of a Linear Black-Scholes Models: A Comparative Overview by IOSR Journal of Engineering (IOSRJEN) ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 05, Issue 08 (August. 2015), ||V3|| PP 45-51

Offices of BUTEX

Office of the Vice-Chancellor

Prof. Dr. Shah Alimuzzaman
Vice-Chancellor

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Assistant Registrar (PS to VC)

Md. Shafiqul Islam
Assistant Director (Public Relation)

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Kabari Majumder
Registrar

Administrative Section, Registrar Office

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Assistant Registrar (HR)
Mohammad Arifur Rahman
Assistant Registrar
Farhana Akter
Administrative Officer (HR)
Gita Rani Karmaker
Administrative Officer (HR)

Academic Section, Registrar Office

Mohammad Sharifur Rahman
Deputy Registrar (HR)
Jakirul Islam Peter
Assistant Registrar (Academic)
Md. Ehsanul Karim
Assistant Registrar

Store Section

Md. Faruq Hossain
Assistant Registrar

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Md. Monjur Alam
Assistant Technical Officer and
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Swapan Kumar Mandal
Assistant Director (Physical Education)

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Executive Engineer
Sheikh Md. Mashrur Zayeem
Senior Assistant Engineer (Civil)
Md. Ramjan Ali Talukder
Assistant Engineering (Civil)
Arun Kanti Chakma
Assistant Technical Officer

Medical Center

Dr. Md. Abu Ishaque
Medical Officer

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Deputy Director (Finance & Accounts)
Sarmin Akhter
Assistant Director (Salary)
Alok Chandra Dey
Assistant Director (Budget)
Abdul Matin Dewan
Accounts Officer
Mohammad Sahadat Hossain
Section Officer (Cash)
Nasrin Akter
Assistant Accounts Officer
Md. Masud Rana
Assistant Accounts Officer

Audit Cell

Md. Moniruzzaman
Deputy Director (Audit)
Muhibbur Rahman
Assistant Audit & Accounts Officer

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Controller (Current Charge)
Md. Mubarak Hossain
Deputy Controller of Examinations
Marjani Tuban Nahar
Assistant Controller of Examinations
Mohammad Khaled Hossan
Section Officer
Md. Azizul Haque Khaled
Section Officer
Eva Akhter
Section Officer
Anwara Katun Nilu
Administrative Officer

Office of the External Affairs

Dr. Mohammad Abbas Uddin
(Shiyak)
Director, External Affairs

Office of the Research and Extension (ORE)

Dr. A T M Faiz Ahmed
Director (Research & Extension)

Office of the Students Welfare

Dr. Md. Reajul Islam
Head, Dept of Yarn Engineering
Director of Student's Welfare

Office of the Planning & Development

Prof. Dr. Mohd. Forhad Hossain
Director (Additional Charge)
Hossain Mohammad Akbar
Assistant Director (Procurement)

Office of the Proctor

Prof. Dr. Ummul Khair Fatema
Proctor
Dr. Sultan Mahmud
Assistant Proctor

Central Library

Mahfoza Begum
Section Officer

ICT Cell

Engr. Md. Ashifur Rahman
Programmer
Engr. Abu Saleh Md. Jahurul Haque
Assistant Maintenance Engineer
Rubel Rana
Technician (Network & Hardware)

Institutional Quality Assurance Cell (IQAC)

Prof. Dr. Mohd. Forhad Hossain
Director
Dr. Md. Ahashan Habib
Additional Director
Md. Shamim Islam
Assistant Director
Abdul Matin Dewan
Accounts Officer

Accredited Lab

Prof. Dr. Hosne Ara Begum
Director (Additional Charge)
Ummey Mohsina Asia Begum
Assistant Director (Reporting)
Ruksana Jannat Nourin
Assistant Director (Reporting)
Md. Farukul Islam Chowdhury
Technical Officer
Ahnaf Abid Momo
Technical Officer

Executive Development Center (EDC)

Prof. Dr. Mohammad Ali
Director, EDC
Prof. Dr. Mohd. Forhad Hossain
Deputy Director, EDC
Dr. Mohammad Rafiqur Rashid
Asst. Director, EDC (Academic)
Dr. Mohammad Abbas Uddin
Asst. Director, EDC (Administration)
Adeeba Binte Azad
Executive (Admin)
Binoy Kumar Sarkar
Executive (Finance)

HELD-BUTEX Project

Prof. Dr. Ummul Khair Fatema
Co-ordinator-I, HELD-BUTEX

Muhammad Sohel Hossain
Finance Officer, HELD-BUTEX

BUTEX-KIK Scholarship Support Project

Dr. Mohammad Abbas Uddin
(Shiyak)
Co-ordinator

Affiliated College/Institute

- Bangabandhu Textile Engineering College
- Sheikh Rehana Textile Engineering College
- Sheikh Kamal Textile Engineering College
- Dr. M A Wazed Miah Textile Engineering College
- Begumgonj Textile Engineering College
- Pabna Textile Engineering College
- SARS Textile Engineering College
- Textile Engineering College Chittagong
- Bangladesh Handloom Education & Training Institute
- Sheikh Hasina Textile Engineering College, Melandaho, Jamalpur

Residential Hall

G. M. A. G. Osmani Hall

Dr. Md. Syduzzaman
Provost
Md. Kamrul Hasan
Assistant Provost
Saifur Rahman Tushar
House Tutor
Forhad Ahmed
House Tutor

Officer

Md. Ayub Ali
Assistant Technical Officer

Total Seat-296

Shaheed Aziz Hall

Dr. Emdad Sarker
Provost
Dr. Md. Nurun Nabi
Assistant Provost
Dr. Md. Murad Ahmed
Assistant Provost
Md. Bashar Uddin
House Tutor

Officer

Md. Abdul Malek
Assistant Technical Officer

Total Seat-245

Syed Nazrul Islam Hall

Dr. Md. Mahbubor Rahman
Provost
Md. Rubel Khan
Assistant Provost
Md Abul Kalam Azad
Assistant Provost
Md. Reasat Aktar Arin
House Tutor
Md. Morshedul Haque
House Tutor

Total Seat-216

Sheikh Hasina Hall

Dr. Hasina Akter
Provost
Toufiqua Siddiqua
Assistant Provost
Upama Nasrin Haq
House Tutor

Total Seat-164