

Annual Report, 2022

Department of

TEXTILE ENGINEERING



Photo-1: Group Photograph of the Faculty Members of Textile Engineering Department

1. Overview of the Department

The Department of Textile Engineering at Green University of Bangladesh (GUB) commenced its journey in 2008 and has since established itself as a leader in textile engineering education in the country. The department offers a comprehensive Bachelor of Science in Textile Engineering program, meticulously designed to equip students with both theoretical knowledge and practical skills essential for the textile industry.

Academic Programs and Curriculum

The B.Sc. in Textile Engineering program spans four years, encompassing 161 credit hours. The curriculum is structured to provide a robust foundation in four major areas: Yarn Manufacturing, Fabric Manufacturing, Wet Processing, and Apparel Manufacturing. This

holistic approach ensures that students gain a well-rounded understanding of the textile sector, preparing them for diverse roles within the industry.

Laboratory Facilities

To facilitate hands-on learning and research, the department boasts eight well-equipped laboratories:

- ***Yarn Manufacturing Lab:*** Features spinning machines that allow students to produce yarn from blow room lap, offering practical experience in machinery operation and yarn production.
- ***Fabric Manufacturing Lab:*** Equipped with various machines and fabric samples, this lab enables students to explore different methods of fabric manufacturing, including weaving and knitting.
- ***Wet Processing Lab:*** Houses industrial sample dyeing machines, wash fastness testers, and other specialized equipment, allowing students to perform pre-treatment, coloration, and finishing processes.
- ***Apparel Manufacturing Lab:*** Offers an integrated educational experience with industrial sewing machines, washing machines, and other equipment essential for garment production.
- ***Textile Testing and Quality Control Lab:*** Provides facilities for assessing the quality and performance of textile materials.
- ***Fabric Structure and Design Lab:*** Allows students to analyze and design various fabric structures.
- ***Computer Lab:*** Supports computational tasks and software applications relevant to textile engineering.
- ***Physics and Chemistry Labs:*** Offer foundational knowledge essential for understanding material properties and chemical processes in textiles.

Co-Curricular Activities

To foster holistic development, the department encourages student participation in various co-curricular activities:

Green University Textile Club (GUTC): Established in 2010, GUTC organizes seminars, career counseling sessions, and publishes advancements in textile engineering.

- ***Intra-Departmental Events:*** Activities such as cricket tournaments, annual picnics, and cultural programs are organized to promote teamwork and community building.
- ***Observance of National Events:*** The department actively participates in events like International Mother Language Day and Pohela Boishakh, fostering cultural awareness among students.

The Department has academic and industrial collaborations with leading organizations at home and abroad to facilitate student exchange, scholarship, joint research, credit transfer, industry academia collaboration etc.

⇒ **Vision Statement**

The Textile Engineering Department of GUB aspires to be a center of excellence for making transformative impact on the socio - economic development with outstanding education, research, creativity, entrepreneurship and eco-friendly innovation.

⇒ **Mission Statement**

The Textile Engineering Department of GUB is to dedicate in preparing competent, ethically driven and socially responsive textile engineering professionals through – adopting outcome-based industry-oriented curriculum; enhancing research, lifelong learning and leadership quality for creativity, adaptability & social transformation to face future Global challenges.

⇒ **Tagline**

Promoting Green Textile for Sustainability.

2. Conferences, Seminars and Workshops organized by the Department

2.1 International Conference on Sustainable Technologies for Industry 4.0 was held on 17-18 December 2022 in the Permanent Campus of Green University of Bangladesh. There was a Keynote Session and a Technical Session for Textile Engineering. The title for the keynote session was “Cross cultural thinking in the development of a sustainable fashion education system: a collaborative approach with industry, policy and the educational sector”. The keynote speaker of the session was Prof. Tao Hui from Wuhan Textile University, China. The technical session comprises of conference paper presentation. There were two invited guests for this session; Hosne Ara Begum, Professor and Head, Department of Yarn Engineering, Bangladesh University of Textiles (BUTEX) and Prof. Dr. Lal Mohan Baral, Professor, Ahasanullah University of Science and Technology (AUST). Four conference paper has been presented on the session from the Department of Textile Engineering. This session was chaired by Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor & Chairperson, Department of Textile Engineering, Green University of Bangladesh (GUB).



Green University



IEEE COMPUTER SOCIETY

2022 4th International Conference on
**SUSTAINABLE TECHNOLOGIES
FOR INDUSTRY 4.0**



Keynote Speaker

Prof. Tao Hui

Dean, School of Fashion
Wuhan Textile University, China

Session Chair

Prof. Dr. Nilai Chandra Sutradhar
Dr. Md. Shariful Alam



Keynote Title

**CROSS-CULTURAL
THINKING IN THE
DEVELOPMENT OF A
SUSTAINABLE FASHION
EDUCATION SYSTEM:**

A COLLABORATIVE APPROACH WITH
INDUSTRY, POLICY, AND THE
EDUCATIONAL SECTOR







STI 2022



4th INTERNATIONAL CONFERENCE ON
SUSTAINABLE TECHNOLOGIES FOR INDUSTRY 4.0

D1T1P7

SATURDAY, 17 DEC 2022

11:30 AM – 01:00 PM

ROOM# PCR-601

PARALLEL SESSION **7**
TEXTILE ENGINEERING APPLICATIONS



SESSION CHAIRS

DR. AHMED JALAL UDDIN
DR. MD. SHARIFUL ALAM

PAPER ID

1366, 2016, 2653,
2710, 4137

Organized by Faculty of Science & Engineering, GDU
Financial Co-sponsor Green University
Technical Co-sponsor IEEE Bangladesh Society
In Association with SQUARE, MCON, DHAKA BEST, and Media Partner





Photo-2: STI Conference 4.0 - 2022

2.2 Seminar on Studying in Germany for Textile Engineers organized by the Department of Textile Engineering in association with Green University Textile Club (GUTC) had successfully organized a seminar on Studying in Germany for Textile Engineers on 01.03.2022. In the keynote speech Dr. -Ing. Moniruddoza Ashir, Research Associate, Institute of Textile Machinery and High-Performance Material Technology (ITM) and Tutor for DAAD scholarship holders concisely discussed about his research activities. It is notable that more than 130 students attended the seminar. He introduced our students with the newest research topics rising in Textile Field. He then thoroughly explained the procedures for studying in Germany and how to apply for DAAD scholarship. After the main session, there was an open question-answer segment in which our students as well as faculty members asked different questions regarding technical sides and higher study prospects in Germany. Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairman, Department of Textile Engineering, Green University of Bangladesh (GUB) wholeheartedly thanked the speaker for his valuable efforts to make the program a success.



Photo-3: Banner of the Seminar on Studying in Germany for Textile Engineers organized by Green University Textile Club (GUTC)



Photo-4: Seminar on Studying in Germany for Textile Engineers organized by Green University Textile Club (GUTC)

2.3 Industrial Talk titled The Fundamental Structures of Wet Processing Technology The Department of Textile Engineering had successfully completed Industrial Talk titled The

Fundamental Structures of Wet Processing Technology on 05.07.2022. Mr. Md. Ali Emam, Executive Director (Textiles), Metro Knitting and Dyeing Ltd. was the keynote speaker of the session. He focused on the fundamental working principles of dyeing machinery, printing machinery and dyeing lab equipment in his speech. He also shared the maintenance works of these machinery from his practical industrial experience. Besides, he also touched on some managerial theory and discussed the qualities of a successful leader, especially from the perspective of the textile industry. Mr. Md. Ali Emam also mentioned the importance of industry-academia collaboration and hoped to continue and enhance the relationship between the Department of Textile Engineering, GUB and Metro Knitting and Dyeing Ltd. in future.



Photo-5: Banner of the Industrial Talk titled The Fundamental Structures of Wet Processing Technology



Photo-6: Industrial Talk titled The Fundamental Structures of Wet Processing

2.4 Seminar titled "All over Printing Design and Development" which is organized by the Department of Textile Engineering The Department of Textile Engineering in collaboration with the Green University Textile Club (GUTC) had organized a seminar on

Tuesday, 8 November 2022 at Permanent Campus. The program covered an informative session followed by a practical demonstration of the all over printing section. Around 180 participants were present at the webinar. The program began with greetings from Fajun Farin, Lecturer, Department of Textile Engineering. The anchor then welcomed all participants and invited Md. Sherazul Islam, Lecturer, Department of Textile Engineering to share his experience on all over printing sector. Afterward, the anchor invited the Keynote Speaker, Md. Shawkat Hossain Sohel to conduct his session. The Keynote Speaker presented the details of All over printing design and development. At the outset, the honorable chief guest, Dr. Jagannath Biswas, Associate Professor, Department of Textile Engineering and the special guest, Dr. Md. Shariful Alam, Associate Professor, Department of Textile Engineering thanked the organizing team, faculty members, and the club for arranging such a program. In their speech, they mentioned the importance of printing for a textile engineer.



Photo-7: Banner of Seminar titled "All over Printing Design and Development" which is organized by the Department of Textile Engineering







Photo-8: Seminar titled "All over Printing Design and Development" which is organized by the Department of Textile Engineering

2.5 Guest Lecture Session by an Industrial Specialist has been organized this morning by the Department of Textile Engineering for 191 Day Batch of City Campus on the course "Modern Apparel Manufacturing (TEX 441)". The name of the Industrial Specialist is Mr. Ananda Roy, Senior Executive (Garments Washing), SQ Hues Ltd. The session lasted for 90 minutes, where Mr. Roy discussed the basics of Garments Washing, his practical insight about the topic & finally the career aspect of Garments Washing. The students were very attentive. They interact with Mr. Roy in this learning process & learned various unknown facts regarding Garments Washing on OBE and Accreditation



Lecture Series by Industrial Specialists

**12 April, 2022
At 10:00 AM
Room: B-308**



Name of the Industry Person

Mr. Ananda Roy

Senior Executive (Garments Washing)
SQ Hues Ltd.





Photo-9: Guest Lecture Session by an Industrial Specialist

3. Award and Achievements

- a) On 04 January, 2022 the Center for Research Innovation and Transformation arranged the GUB Research Exhibition (GEX 2021) for the GUB faculty members, students and alumni to provide a one-stop platform for innovators to showcase their findings. As per the planning, the top three (03) innovations participated in an International Exhibition RICES 2021 to showcase their innovations and all of the 3 projects have been awarded in the Gold and Silver category. The awardees have already received the digital certificates from the organizer and the medals have been sent through airfreight. On the certificates and Medals giving moments, the honorable Vice chancellor of GUB, Prof. Dr. Md. Golam Samdani Fakir, Advisor, Prof. Dr. Md. Abdur Razzaque, treasurer, Prof. Dr. Md. Fayzur Rahman, Dean of Business Studies, Prof. Dr. Golam Ahmed Faruqui, Dean of Faculty of Science and Engineering, Prof. Dr. Md. Saiful Azad, Dean of Law, Prof. Dr. Farhana Helal Mehtab were present along with the respected registrar, Md. Saiful Islam, Chairpersons of different departments, Directors of different sections.

Award Category: Gold Award

Project Title: Scalable Coating Process of AgNPs silicone on Cotton Fabric for Developing Hydrophobic and Antimicrobial Properties.

Team Leader: Mr. Md. Touhidul Islam, Lecturer, Textile Engineering, GUB

Other Team Members:

Md. Abdullah Al. Mamun

Dr. Hasan Shahariar

MD. Mahbubur Rahman

MD. Monir Hossan





Photo-10: Certificates and medal giving ceremony from CRIT

4. Arrivals, Departures and Promotions

- a) Ms. Dilshat Rubia Dola (Lecturer – Wet Processing), Mr. Md. Shakil Ahmed (Lecturer – Chemistry), Mr. Avijeet Datta (Lecturer – Apparel), Mr. Mashiur Rahman Khan (Lecturer

- Apparel), Mr. Rafe Md. Abu Zayed (Lecturer – Mechanical) departed from the Department of Textile Engineering of GUB in Spring 2022.
- b) Mr. Md. Mohinuddin (Lecturer – Chemistry), Mr. Md. Nabayal Shahed (Lecturer – Wet Processing), Ms. Faijun Farin (Lecturer – Apparel) Joined the Department of Textile Engineering of GUB during Summer 2022.
- c) Mr. Subrata Pal (Lecturer - Chemistry), Ms. Jannat Jahan Joya (Lecturer – Apparel), Mr. Md. Nabayal Shahed (Lecturer – Wet Processing) departed from the Department of Textile Engineering of GUB in Summer 2022.
- d) Mr. Md. Sherazul Islam (PC) (Lecturer - Wet Processing), Mr. Md. Mubashwir Moshwan (Lecturer – Apparel), Mr. Abrar Yasin Abir (Lecturer - Chemistry), Md. Ishmam Ibnul Arabi (Lecturer - Chemistry), Prasenjit Bhowmik (Lecturer - Chemistry), Mr. Matiur Rahman (Lecturer - Chemistry), Ms. Lailatul Nehar (Lecturer – Mechanical) Joined the Department of Textile Engineering of GUB during Fall, 2022.
- e) Ms. Lailatul Nehar (Lecturer – Mechanical) departed from the Department of Textile Engineering of GUB in Fall 2022.
- f) Mr. Md. Mahbubur Rahman got his promotion from Senior Lecturer to Assistant Professor During Summer 2022

5. Student Club Activities

6. **TEX FEST-2022 (The Flagship Event of the Textile Engineering Department)** the Department of Textile Engineering had successfully organized TEX FEST-2022. The program was held on 29.12.2022 (Thursday) and 30.12.2022 (Friday).



Photo-11: Banner of TEX FEST-2022 (The Flagship Event of the Textile Engineering Department)

Day 01: Session 01 (Thursday, 29 December 2022) - Grand Inauguration & Seminar

The Grand Inauguration started at 10:30 PM in the ground floor of the permanent campus with the recitation from Holy Quran. Then Md Mutasim Uddin, Moderator, GUTC welcomed everyone in the TEX FEST-2022. The special guest of the program was Dr. Md. Aminur Rahman, Director, Permanent Campus and the chief guest was Prof. Dr. Md. Fayzur Rahman, Treasurer, Green University of Bangladesh. The session chair of the program was Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairperson, Department of Textile Engineering, GUB. Finally, there was a speech from Md. Ali Emam, Executive Director, Metro Knitting and Dyeing Mills Limited. Around 200 students were present in the Grand Inauguration program.

Grand Inauguration

Tex Fest 2022
Sew the Future

10:00 AM | **29** DEC 22

GROUND FLOOR
GUB PERMANENT CAMPUS

Organized By

Chief Guest
Prof. Dr. Md. Fayzur Rahman
Treasurer
Green University of Bangladesh

Special Guest
Dr. Md. Aminur Rahman
Director
Permanent Campus

Session Chair
Prof. Dr. Nitai Chandra Sutradhar
Chairperson & Distinguished Professor
Department of Textile Engineering

Executive Director
Md. Ali Emam
Executive Director (Textile)
Metro Knitting & Dyeing Mills Ltd.



Photo-12: Day 01 - Session 01 (Thursday, 29 December 2022) - Grand Inauguration & Seminar

Day 01: Session 02 (Thursday, 29 December 2022) - Departmental Quiz Competition

After lunch, a quiz competition was held in room no. 307, Permanent campus. Kahoot was used as the platform of the competition and it was very interactive. Around 70 students of City and Permanent campus actively participated in the competition.

Knowledge Knockout	
Played on	29 Dec 2022
Hosted by	Md. Al Amin Hossain
Played with	83 players
Played	35 of 35

Overall Performance	
Total correct answers (%)	28.02%
Total incorrect answers (%)	71.98%
Average score (points)	8900.14 points





Photo-13: Day 01 - Session 02 (Thursday, 29 December 2022) - Departmental Quiz Competition

Day 01: Session 03 (Thursday, 29 December 2022) - Photography Contest

An exhibition of these six (06) photos was held on 29 December 2022 at the permanent campus of GUB. From all the submitted photos (around 80) only six photographs were selected for the final round. An exhibition of these six (06) photos was held on 29 December 2022 at the permanent campus of GUB. From those photos, the judge panel selected only three (03) photos. Champion, 1st runner-up, and 2nd runner-up was awarded on 30 December 2022.



Photo-14: Day 01 - Session 03 (Thursday, 29 December 2022) - Photography Contest

Day 02: Session 01 (Friday, 30 December 2022) - Career Talk and Innovative Idea Presentation The main contest of Innovative Idea & Presentation was held three days prior to the second day of TEX FEST 2022. The final round was completed on 27/12/2022. The student

who got first prize made a poster on his presentation. The poster was displayed the whole day of TEX FEST 2022. The keynote speaker for the Career Talk session was Mr. Sadman Sadik, Course Instructor – 10 Minutes School. Mr. Sadman is very well known as a motivational speaker and he engaged with our students in a very interactive session.



The poster for the Career Talk session at Tex-Fest 2022 features a blue and yellow color scheme. On the left, it displays the event name 'Tex-Fest 2022' in a stylized font, the date '30 DECEMBER' in a circular badge, and the location 'A-502' with a location pin icon. The main title 'CAREER TALK' is prominently displayed in large, bold, orange letters. Below the title, two speakers are introduced: Dr. Md. Sharful Alam as the Session Chair, and Sadman Sadik as the Keynote Speaker. Each speaker's name and title are presented in a blue and orange banner, accompanied by a circular portrait. At the bottom of the poster, logos for Green University and other affiliated institutions are visible.





Photo-15: Day 02 - Session 01 (Friday, 30 December 2022) - Career Talk and Innovative Idea Presentation

Day 02: Session 02 (Friday, 30 December 2022) - Memory Reminiscing by Alumni Members

The program was successfully organized with a large number of participations from Alumni, Students & Faculty members of the Department. Some alumni share their feelings about their professional life, experiences, suggestions, etc. Some also give some constructive feedback about the Department. The session chair for this program was Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairman, Dept. of Textile Engineering, Green University of Bangladesh.





Photo-16: Day 02 - Session 02 (Friday, 30 December 2022) - Memory Reminiscing by Alumni Members

Day 02: Session 03 (Friday, 30 December 2022) - Prize and Certificate Distribution The Prize and Certificate Distribution ceremony of TEX FEST 2022 was held in Green Garden, Green University of Bangladesh. Our honorable Vice-chancellor Prof. Dr. Md. Golam Samdani Fakir was present as chief guest and special guests were Brig. Gen. Md. Mahboob Sarwar, PhD (Registrar, GUB), Prof. Dr. Md. Saiful Azad (Dean, FSE, GUB), Prof. Dr. ASM Shihavuddin (Chairperson, Department of EEE, GUB) were present as special guests. The session chair was Prof. Dr. Nitai Chandra Sutradhar (Chairperson and Distinguished Professor, Department of Textile Engineering, GUB). The chief guest and special guests handed over the prizes among the winners and Runner ups of various segments of TEX FEST 2022.

Prize Giving Ceremony

Tex Fest 2022

Sew the Future

03:30 PM | 30 DEC 22

GREEN GARDEN
GUB CITY CAMPUS

Organized By

Chief Guest
Prof. Dr. Md. Golam Sarhadul Fahir
Vice-Chancellor
Green University of Bangladesh

Special Guest
Brig. Gen. Md. Mahboob Sarwar, Ph.D
Engineer
Green University of Bangladesh

Special Guest
Prof. Dr. Md. Sahal Akad
Dean, Faculty of Science & Engineering
Green University of Bangladesh

Special Guest
Prof. Dr. ASM Shaukat Bin
Chairperson, Department of BEE
Green University of Bangladesh

Session Chair
Prof. Dr. Hossain Choudhury Binodur
Chief Officer, Quality and Assurance
Dept. of Textile Engineering
Green University of Bangladesh

Innovative Idea & Presentation

Google Classroom QR Code

30 December, 2022

Scan Me

Tex Fest 2022

ORGANIZED BY

Last Date of Submission

21
December, 22
Wednesday





Photo-17: Day 02 - Session 03 (Friday, 30 December 2022) - Prize and Certificate Distribution

Day 02: Session 04 (Friday, 30 December 2022) - Cultural Program

The Cultural Night began at 5:30 pm and lasted until 9 pm. The students, Alumni & Teachers from the Department actively participated in various segments like singing, drama, dance, poetry, etc. The TEX FEST 2022 ended with a colorful vibe at around 9 pm.







Photo-18: Day 02 - Session 04 (Friday, 30 December 2022) - Cultural Program

6.1 Freshers' Orientation Program of the Department of Textile Engineering for Spring-2022 Semester the Department of Textile Engineering of Green University of Bangladesh had successfully organized the Freshers' Orientation Program for Spring-2022 semester. Around 150 participants took part in the program actively. The program was divided in the

following segments – Freshers’ Orientation Program for Spring-2022 semester started at 07:00 PM, 02.02.2022 with the recitation from Holy Quran. Md Mutasim Uddin, Lecturer and Moderator (GUTC), Department of Textile Engineering welcomed the fresher students to the Department of Textile Engineering. After that the fresher students gave self-introduction and one of the fresher students, Md. Tanvir Tarek (ID: 221003029) expressed his feelings about GUB and the department. Ms. Mehnaz Jebin, Lecturer, Department of Textile Engineering delivered a brief presentation about the faculty profiles of the department. After that Md. Ikbal Abir, President, GUTC showed the club activities to the fresher students briefly. Md. Zahir Uddin Babar and Md. Masfiad-Al-Nahian, Alumni Member, Department of Textile Engineering highlighted about various job opportunities of GUB textile graduates. Md. Shahidul Alam, President, Alumni Association of the Department of Textile Engineering briefed about the importance of alumni association. Md. Mahbubur Rahman, Senior Lecturer and Program Coordinator, briefed about various academic activities to the fresher students. Md. Al Amin Hossain, Lecturer and Master Facilitator, Department of Textile Engineering conducted a hands-on training session on Zoom and Google Classroom for the fresher students of Spring-2022 semester. Dr. Md. Shariful Alam, Associate Professor and Mentor Moderator, Department of Textile Engineering, briefed about the mentorship program. He nicely covered about the supports and facilities students get from GUB faculty members and officials. Dr. Jagannath Bishwas, Associate Professor, Department of Textile Engineering, briefed about various achievements of the Department. He also mentioned various aspects of quality education and offered the freshers’ students a very warm welcome. Prof. Dr. Ismail Chowdhury, Professor, Department of Textile Engineering focused about the job opportunities of GUB textile graduates in various government and private organizations. Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairperson, Department of Textile Engineering, chaired the whole program, summarized the strengths of the department, focused the overall prospects of textile education in Bangladesh and finally conclude the session with thanksgiving to the organizers of the program

Freshers Orientation

Dept. of Textile Engineering for Spring-2022

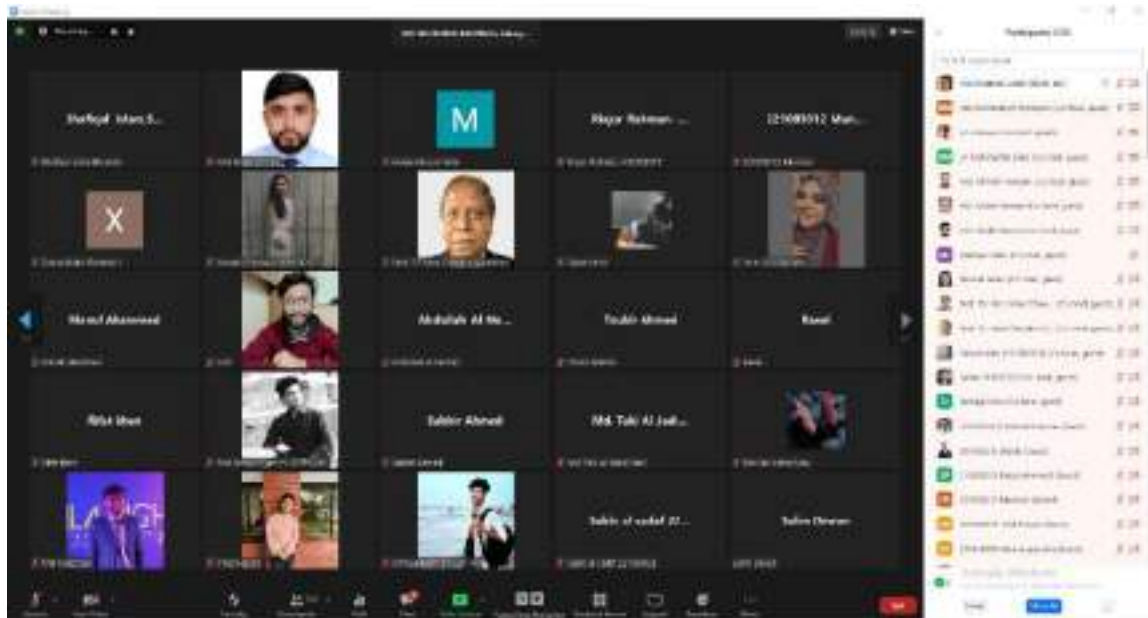
Date: 02 February, 2022; Time: 07:00 PM



Secretary/Chair
Prof. Dr. Nilai Chandu Sutradhar
Distinguished Professor and Chairperson
Dept. of Textile Engineering
Green University of Bangladesh



Zoom ID: 62062145442



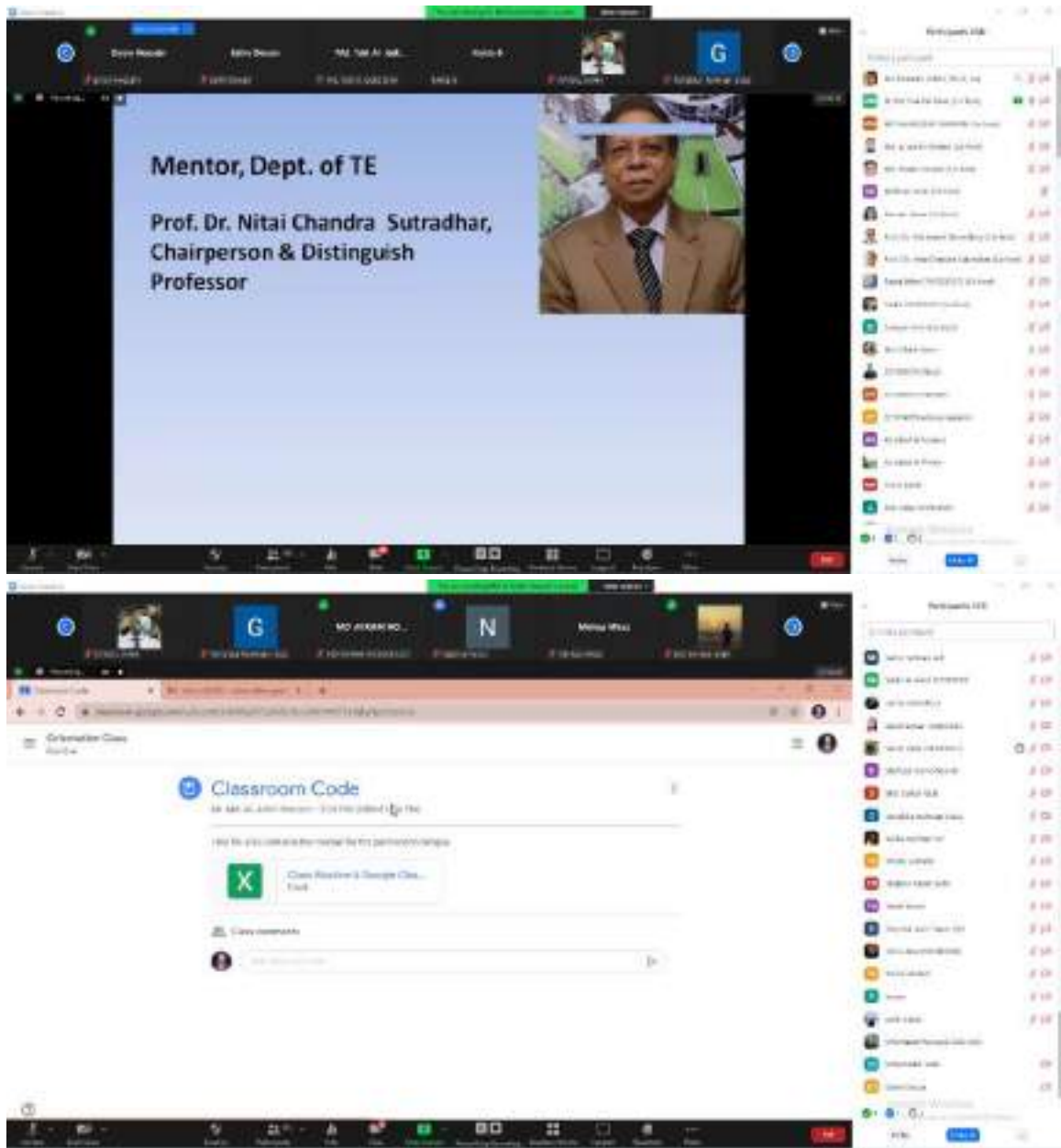


Photo-19: Fresher's Orientation Program of the Department of Textile Engineering for Spring-2022 Semester

6.2 Industrial Visit to Aptech Industrial Park by The Department of Textile Engineering in association with GUTC on 12 March 2022 (Saturday), the Department of Textile Engineering had successfully organized an Industrial Visit at Aptech Industrial Park, located in Kashimpur, Gazipur. Aptech is one of the leading industries in our country. Its main products are denim jeans & blazers. In addition, it is an ECO friendly Industry. There were 36 students participated in this visit, among them 26 are from city campus 183 Batch & the rest are from 191, 192 Batch of Permanent Campus. Two faculty members of the Textile Department Mr. Monir Hossain & Mr. Omor Faruque accompanied them. As it was

the first industrial visit after the pandemic, the students were very eager. The journey started at 8 am in the morning. They reached the industry at around 11 am. They were warmly welcomed in the industry. The Director of Admin Col. Md. Mozammel Hossain (Retd.) sir gave an introductory welcoming speech towards the students. Then the students were divided into three groups, each group being given a supervisor. They documented their learning in their notebook and gave reflection to the faculties at the end of the day. The students bought a gift for the Director of Admin Col. Md. Mozammel Hossain (Retd.) to show their gratitude.



Photo-20: Banner of the Industrial Visit to Aptech Industrial Park by the Department of Textile Engineering







Photo-21: Industrial Visit to Aptech Industrial Park by the Department of Textile Engineering

6.3 Intra-Department Cricket Tournament-2022 Organized by GUTC An Intra-Department Cricket Tournament was successfully organized by the Department of Textile Engineering in association with Green University Textile Club (GUTC). The final match of the tournament was held on 27.03.2022 (Sunday) in the permanent campus cricket ground. After an exhilarating match, team Green Tigers won the champion title by beating team Green Lions. A large number of students and alumni members enjoyed the match and inspired both the teams. The prize distribution ceremony was held after the match, presided by Dr. Md. Shariful Alam, Associate Professor and Mentor Moderator, Department of Textile Engineering, Green University of Bangladesh.



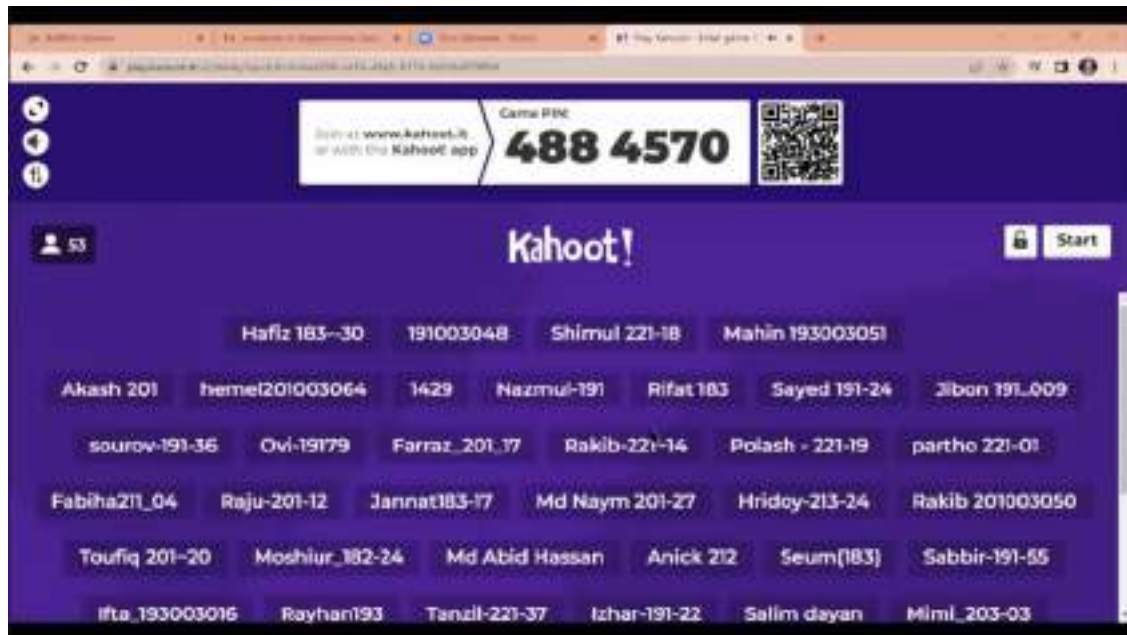
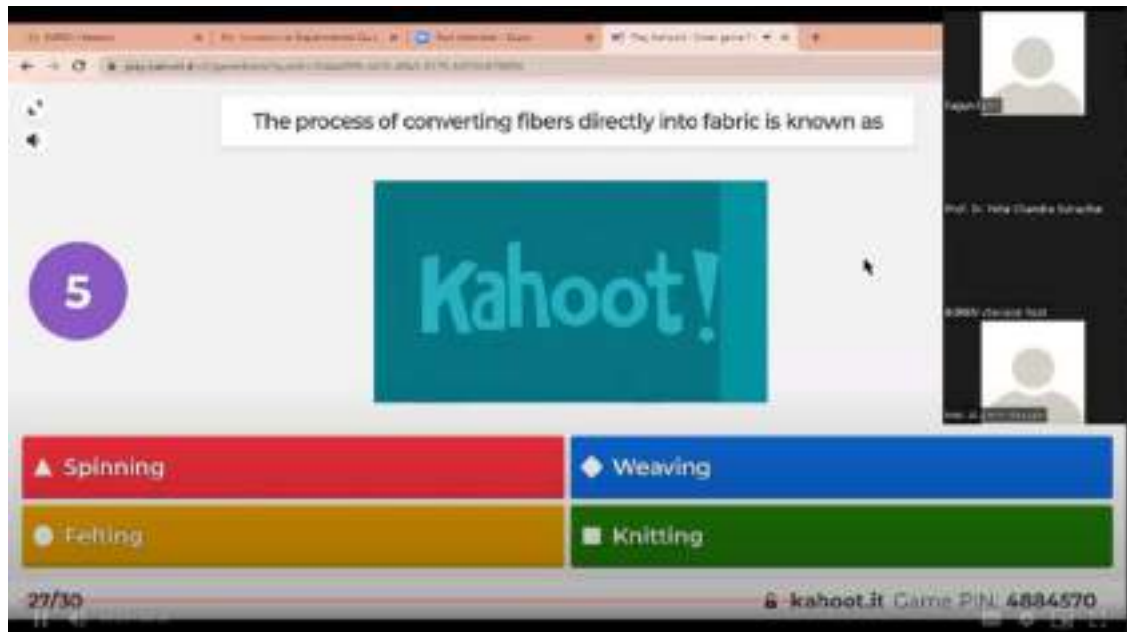


Photo-22: Intra-Department Cricket Tournament-2022

6.4 Departmental Quiz Competition - Spring 2022 Department of Textile Engineering had successfully organized this semester's (Spring 2022) Departmental Quiz Competition online on 16 April 2022 by using the Zoom & Kahoot! Platform. The chair of the session was Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairperson, Dept. of Textile Engineering, Green University of Bangladesh. All the faculties were also present at the meeting. There were 30 questions (23 related to General Knowledge, 07 related to Basic Textile Engineering). Around 55 students participated in the competition. The competition was tough and all of us enjoyed the session. The competition was very tough and all of us enjoyed the session.



Photo-23: Banner of the Departmental Quiz Competition – Spring 2022



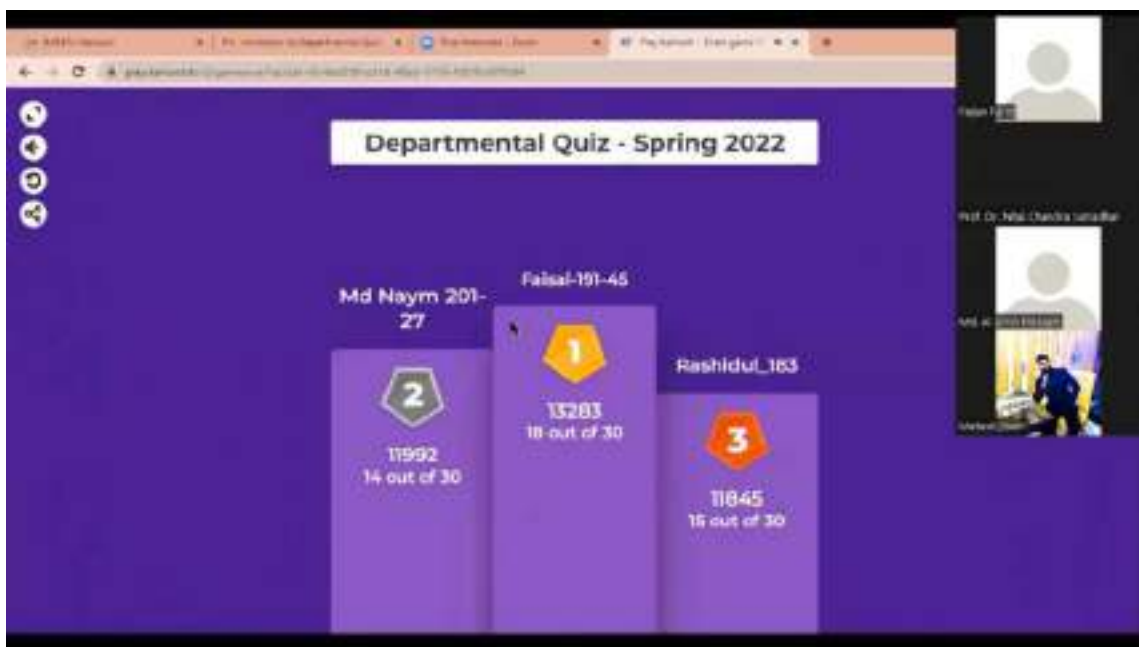


Photo-24: Departmental Quiz Competition – Spring 2022

6.5 Iftar Mahfil-2022 Organized by the Green University Textile Club (GUTC) the Department of Textile Engineering has successfully organized Iftar Mahfil-2022 on 22.04.2022 (Friday) in A-302, A-301 and A-310, City Campus, Green University of Bangladesh. Around 170 students, 30 alumni members and 20 faculty members and guests were present in the program. The program started with recitation from the Holy Quran. Then, Dr. Md. Shariful Islam, Associate Professor and Mentor Moderator, Department of Textile Engineering, Green University of Bangladesh delivered his welcome speech. After that, Prof. Dr. Md. Golam Samdani Fakir, Honorable Vice Chancellor, Green University of Bangladesh delivered his insightful speech. He specially mentioned about the five things every Muslim should try to do in the holy month of Ramadan. Prof. Dr. Md. Abdur Razzaque, Honorable Advisor, Green University of Bangladesh emphasized the importance of Ramadan in his brief speech. After that, Md. Shahidul Alam, President, Alumni Association of the Department of Textile Engineering and Md. Ikbal Abir, President, Green University Textile Club, gave brief speeches. Dr. Jagannath Biswas, Associate Professor, Department of Textile Engineering and Prof. Dr. Ismail Chowdhury, Professor, Department of Textile Engineering focused on the positive sites of fasting in their speeches. Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairperson, Department of Textile Engineering, Green University of Bangladesh presided over the program. He thanked all the organizers of the program for arranging a very tidy program in his concluding remarks. Finally, Prof. Dr. Md. Fayzur Rahman, Honorable Treasurer, Green University of Bangladesh led the Doya Mahfil before Iftar.







Photo-25: Iftar Mahfil-2022 Organized by the Green University Textile Club (GUTC)

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He also mentioned various aspects of quality education and offered the freshers' students a very warm welcome. Prof. Dr. Ismail Chowdhury, Professor, Department of Textile Engineering focused about the job opportunities of GUB textile graduates in various government and private organizations. Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairperson, Department of Textile Engineering, chaired the whole program, summarized the strengths of the department, focused the overall prospects of textile education in Bangladesh and finally concluded the session with thanksgiving to the organizers of the program.





Photo-26: Freshers' Orientation Program of the Department of Textile Engineering for Summer-2022 Semester

6.7 Fresher's Orientation program of Dept. of Textile Engineering - Fall 2022

[Permanent Campus] Green University Textile Club (GUTC) in collaboration with the Department of Textile Engineering, organized the Fresher's Orientation program for the "Fall 2022" semester on October 06, 2022 at 02:30 PM. This program was arranged to welcome the fresher's to the permanent campus. At the program, Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor of Green University of Bangladesh, was present as an honorable chief guest, while Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairperson, was present as a session chair, and Prof. Dr. Md. Fayzur Rahman, Treasurer of GUB, was present as an honorable special guest. Among others, club moderators, program coordinators, faculty members, department coordination officers, club members, alumni members, and more than 30 newly admitted students were present at the program. Throughout this program, the fresher's have enriched their knowledge regarding the disciplines, their scope, and opportunities from the respected teachers of the department. This program was essential to increasing inter-batch communication among faculty members. Dr. Nitai Chandra Sutradhar, Chairperson of the Dept. of TE, briefly presented how to become a good textile engineer. In his speech, he emphasized the importance of a successful textile engineer having a strong blend of theoretical and practical expertise.





Photo-27: Fresher's Orientation program of Dept. of Textile Engineering - Fall 2022
[Permanent Campus]

6.8 Fresher's Orientation Program of the Department of Textile Engineering - Fall 2022
[City Campus] the Department of Textile Engineering in association with Green University Textile Club (GUTC) organized the freshers' orientation program for Fall-202

semester (City Campus) on October 04, 2022 (Tuesday) at 12:00 PM. This program was arranged to welcome newcomers to the Department of Textile Engineering. Prof. Dr. Md. Golam Samdani Fakir, Vice Chancellor, Green University of Bangladesh, was present as an honorable chief guest. Prof. Dr. Md. Fayzur Rahman, Treasurer, Green University of Bangladesh, was present as an honorable special guest while Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairperson, Department of Textile Engineering, Green University of Bangladesh, was present as a session chair. Among others, club moderators, faculty members, department coordination officer, club members, alumni members and more than 35 newly admitted students were present at the program. Throughout this program, the freshers have enriched their knowledge regarding the department, their career scope and opportunities as a textile graduate from the respected teachers of the department.





Photo-28: Fresher's Orientation program of Dept. of Textile Engineering - Fall 2022
[City Campus]

6.9 Departmental Quiz Contest - Summer 2022 The Department of Textile Engineering has successfully organized this semester's (summer 2022) successfully organized this semester's (Summer 2022) Departmental Quiz Competition on 01 September 2022 by using the Kahoot! Platform. The chair of the program was Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor and Chairperson, Dept. of Textile Engineering, Green University of Bangladesh. Most of the faculties were also present at the program. There were 40 questions (30 related to General Knowledge, 10 related to Basic Textile Engineering). More than 50 students participated in the competition. The competition was tough and all of us enjoyed the session. At the end of the program, the winners of the quiz competition have been awarded with books. Books are considered as the best friends of students in a real sense, and it is said that they are also the best companions of students. They play a significant role in Student's life.



Photo-29: Banner of the Departmental Quiz Contest - Summer 2022





Photo-30: Departmental Quiz Contest - Summer 2022

6.10 **Industrial Visit to Metro Knitting & Dyeing Mills Ltd. by The Department of Textile Engineering** on 04 September, 2022 the Department of Textile Engineering in association with GUTC had successfully organized an Industrial Visit at Metro Knitting & Dyeing Mills Ltd. Fatullah, Narayangonj. This is one of the leading industries in our country. Its main products are Knitted T-shirts, Polo shirts, men & ladies dresses and blazers. In addition, it is an ECO friendly Industry. There were 33 students, participated in this visit, all of them from city campus 191 Batch. Three faculty members of the Textile Department, Mr. Md. kaikobad, Mr. Nabayel Shahed & Mr. Ishmam Ibnul Arabi, accompanied them. The journey began at 8:00 o'clock in the morning. We reached the industry about 10 am. The industry welcomed us warmly. The Head of Admin and HR Department Mr. Nitai sir presented an introductory welcoming speech towards the students. The students were then separated into two groups; each group is being given a supervisor. We visited the knitting section, dyeing section, printing section, finishing section, washing section, and ETP plant under the supervision of the assigned supervisor. Students documented their learning in a notebook and gave reflection to the faculties. Finally, the DGM and AGM sir of this industry met for 10 minutes to conclude the program.







Photo-31: Industrial Visit to Metro Knitting & Dyeing Mills Ltd. by the Department of Textile Engineering

6.11 **Industrial Visit organized to AJ Fashion Limited by the Department of Textile Engineering** The Department of Textile Engineering had successfully organized an industrial visit to AJ Fashion Limited on 09.09.2022 (Friday). Around 25 students of the 191 Day batch participated in the visit. Md. Mutasim Uddin, Lecturer, Department of Textile Engineering, Md. Al Amin Hossain, Lecturer, Department of Textile Engineering and Pradip Datta, Lab Technician (Apparel Manufacturing), Department of Textile Engineering, accompanied the team. AJ Fashion Limited consists of five (05) floors where the cutting, sewing, finishing, quality control and Industrial Engineering (IE) sections are located. At first the GM of the group Mr. Maminul Islam briefed shortly. Then the team was divided in five (05) groups and visited various sections in a very organized manner. Finally, the groups met again in the conference room to review the visit and have a Q & A session.





Photo-32: Industrial Visit organized to AJ Fashion Limited by the Department of Textile Engineering

6.12 **Industrial Visit at Esquire Knit Composite Ltd. by The Department of Textile Engineering** On 12 November 2022 (Saturday), the Department of Textile Engineering successfully organized an Industrial Visit at Esquire Knit Composite Ltd., Kanchpur, Narayanganj, one of the leading industries in our country. Its main products are knitted t-shirts, polo shirts, men's & women's wear. The number of students were 35 comprising 192 and 193 batch accompanied by two faculty members of the Textile Engineering Department, Mehnaz Jebin & Md. Sherazul Islam. The journey began at 8:00 o'clock in the morning. We reached the industry around 10 o'clock. The industry welcomed us with an introductory speech about the industry. The students were then separated into two groups; each group was given a supervisor. They visited all the dept. of the factory i.e. knitting, dyeing, washing, cutting, embroidery, printing and sewing section under the supervision of the assigned supervisor. Students documented their learning in a notebook and gave reflection to the faculties. Finally, they bid us adieu at 4pm.



Photo-33: Banner of Industrial Visit at Esquire Knit Composite Ltd. by the Department of Textile Engineering







Photo-34: Industrial Visit at Esquire Knit Composite Ltd. by the Department of Textile Engineering

6.13 **Industrial Visit at Pretty Industrial Park by the Department of Textile Engineering** the Department of Textile Engineering successfully organized an Industrial Visit at Pretty Industrial Park Ltd., Zamgora, Ashulia on 27th November 2022. They manufacture and export knitted t-shirts, polo shirts, sweaters, men's & ladies dresses etc. The number of students was 27 and two faculty members of the Textile Engineering Department, Mr. Md. Mubashwir Moshwan & Ms. Faijun Farin accompanied them. The journey began at 6:40 o'clock in the morning. We reached the industry around 8:10 o'clock. The industry welcomed us with an introductory speech about the industry. The students were then separated into two groups, each group being given a supervisor also two faculty members continuously helping to collaborate with them. They visited all the dept. of the factory i.e. Yarn dyeing, knitting, fabric dyeing, finishing, cutting, printing and sewing section, ETP also the sweater section under the supervision of the assigned supervisor. Students documented their learning in a notebook and gave reflections to the faculties. Finally, they bid us adieu at 2:30 pm. Overall, it was a very productive day for the students. They were pleased by getting the opportunity to experience the practical field of their

respective

study

area.



Photo-35: Banner of Industrial Visit at Pretty Industrial Park by the Department of Textile Engineering







Photo-36: Industrial Visit at Pretty Industrial Park by the Department of Textile Engineering

7. Presentation Papers/Attendance in seminar/workshops etc.

7.1 **Participation at ChemFusion International ChemFest-2022 as Judge of the Wall Magazine Competition** on February 25, 2022; Mr. Subrata Pal, Lecturer, Department of Textile Engineering, participated in the final round of the ChemFusion International ChemFest-2022, organized by ChemFusion in association with the American Chemical Society (ACS), Bangladesh Chemistry Society, Red-Green Research Centre, Project Chemistry, and Somoy Television. The ChemFusion International ChemFest-2022 started its journey through the registration process on January 1, and the preliminary selection process runs from February 16 to February 20. Students from schools, colleges, and universities from home and abroad participated in six events, viz., Chemical Hacathon, Chemistry Olympiad, Hands on Experiment, Chem Show, Poster Presentation, and Wall Magazine. I was selected as one of the judges for the final round of the Wall Magazine contest. At the inaugural and prize giving ceremonies, there were a great number of renowned researchers and faculty members in the field of chemistry from home and abroad.



Inauguration Ceremony

25 February, 10 A.M. LIVE



Chief Guest



Md. Abdur Karim
President
Bangladesh Chemical Society (BCS)



Dr. Mohammad Nazim Islam Bhuiyan
Principal Scientific Officer, BCSIR

Special Guest



Mong Sami Manna Borhwal
Principal Scientist, Nucleobite Chemistry,
Next generation DNA Sequencing
Technology
Ph.D., USA

Special Guest



Jamal Uddin
Professor and Founding Director,
Center For Nanotechnology at
Coppin State University

Special Guest



Dr. Saif M. Chowdhury
Associate Professor
University of Texas at Arlington

Special Guest



Convener

Dr. Md Iqbal Rouf Momen
Professor
Dept. of Chemistry, DU



Co-Convener

Dr. Mohammad Ismail
Professor
Dept. of ACCE, DU

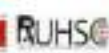


Adviser

Dr. Mehruza Haque
Post Doctoral Fellow
UBC, Canada



Project chemistry



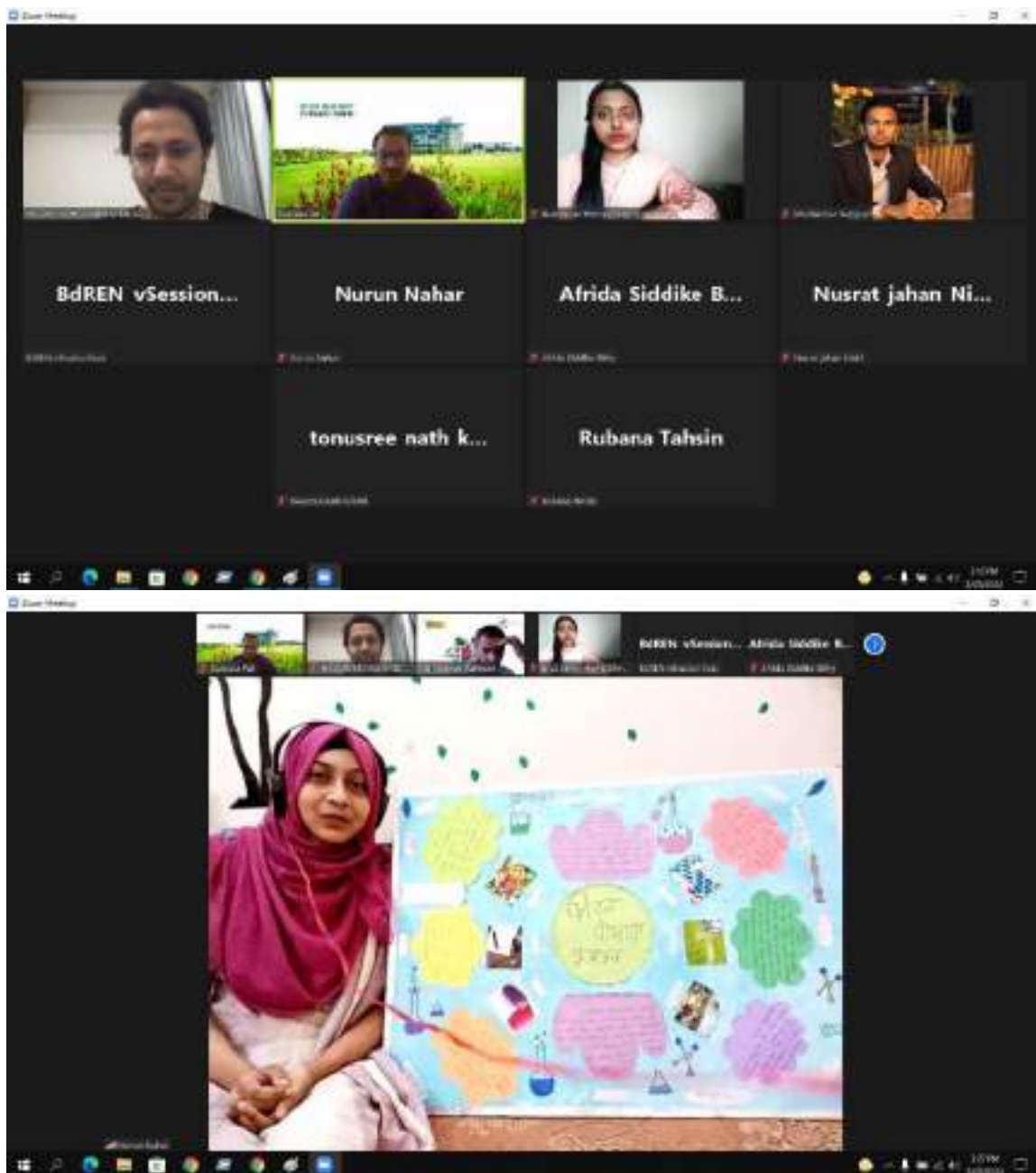


Photo-37: Participation at ChemFusion International ChemFest-2022 as Judge of the Wall Magazine Competition

8. Research and Publications

a) Journal Articles

1. Datta, A., Uddin, M. M., Rahman, M. M., & Helal, M. M. (2022). The benefits of using computerized system over manual system in apparel production. GUB Journal of Science & Engineering, 8(1), 36–40. <https://doi.org/10.3329/gubjse.v8i1.62330>

2. Helal, M. M., Uddin, M. M., Rahman, M. M., & Alam, M. S. (2022). The impact of neutral enzyme on jute-cotton blended denim fabric. *GUB Journal of Science & Engineering*, 8(1), 24–28. <https://doi.org/10.3329/gubjse.v8i1.62328>
3. Rahman, M. M., Uddin, M. M., Hossan, M. M., Helal, M. M., Ireen, S., & Biswas, J. (2022). Effect of varying concentration of soda ash on fastness properties of reactive dyed cotton fabric. *International Journal of Composite Materials*, 12(1), 10–16. <https://doi.org/10.5923/j.cmaterials.20221201.02>
4. Uddin, M. M. (2022). Effect of varying concentration of soda ash on fastness properties of reactive dyed cotton fabric. *International Journal of Composite Materials*, 12(1), 10–16. <https://doi.org/10.5923/j.cmaterials.20221201.02>
5. Kaniz Farhana, Sneha, Z. Z. ., Mondol, S. ., Farin, F. ., & Mahamude, A. S. F. . (2022). Business Trend Analysis of RMG Industry in Context of Bangladesh-A Case Study. *International Journal of Industrial Management*, 14(1), 515-528. <https://doi.org/10.15282/ijim.14.1.2022.7327>

b) **Conference Proceedings**

1. Abir, A. Y., Arabi, I. I., Alam, M. S., Moon, J. F., & Hasnat, M. A. (2022). Ultra-sensitive detection of nitrate ions by Cu-electrodeposited gold electrode. In 4th International Conference on Sustainable Technologies for Industry 4.0 (STI), 17–18 December, Dhaka.
2. Arabi, I. I., Alam, M. S., Mohinuddin, M., Abir, A. Y., Moon, J. F., & Biswas, J. (2022). DFT based pharmacokinetic, ADMET, QSAR and molecular docking studies of some polyphenolic derivatives against HCV NS5B polymerase. In 4th International Conference on Sustainable Technologies for Industry 4.0 (STI), 17–18 December, Dhaka.
3. Jahan Mousumi, N., Mohinuddin, M., Uddin, M. M., Alam, M. S., Mahbubur Rahman, M., & Biswas, J. (2022). Removal of azo dye from textile effluent by activated charcoal extracted from jute stick. In 4th International Conference on Sustainable Technologies for Industry 4.0 (STI), 17–18 December, Dhaka.
4. Kaikobad, M., Faruque, M. O., Jebin, M., Ireen, S., & Rahman, M. M. (2022). Effect of elastane on physical properties of double jersey knit fabric for active wear. In 4th IEEE International Conference on Sustainable Technologies for Industry 5.0 (STI), 17–18 December, Dhaka.

5. Uddin, M. M. (2022). Performance analysis of lean tools implementation in garment industry: A case study. In 4th International Conference on Sustainable Technologies for Industry 4.0 (STI), 17–18 December, Dhaka.

c) **Review Paper**

1. Sayam, A., Rahman, A. N. M. M., Rahman, M. S., Smriti, S. A., Ahmed, F., Rabbi, M. F., Hossain, M., & Faruque, M. O. (2022). A review on carbon fiber-reinforced hierarchical composites: Mechanical performance, manufacturing process, structural applications and allied challenges. Carbon Letters..

9. Miscellaneous:

9.1 Farewell of Mr. Md. Shakil Ahmed – Lecturer (Chemistry), Department of Textile Engineering, GUB Mr. Md. Shakil Ahmed, Lecturer(Chemistry), Department of Textile Engineering, Green University of Bangladesh has recently accepted the opportunity to join NPCBL (Nuclear Power Company Bangladesh Limited) as an Executive Trainee. As per his opinion, It was not an easy decision to make because he truly enjoys working with all of you here at Green University of Bangladesh. The Department arranged a farewell program for him at The Buffet Stories, Mirpur-11, Dhaka on March 17, 2022 at 1:00 PM. Prof. Dr. Nitai Chandra Sutradhar, Distinguished Professor & Chairperson, Department of Textile Engineering, presided over the program. We all wished him good luck on his upcoming journey.



Photo-38: Farewell of Mr. Md. Shakil Ahmed – Lecturer (Chemistry), Department of Textile Engineering, GUB

9.2 **Textile Engineering “Faculty Get-Together Event”** the Textile Engineering department of the Green University of Bangladesh has successfully organized a get together at

Melbourne Thai & Chinese Restaurant, 220/A/2, Begum Rokeya sharani, Mirpur, Dhaka-1216 on June 2022. Around 20 faculty members attended this event to make it cheerful. The program started at 1:00 PM. We are very much delighted due to the presence of Prof. Dr. Nitai Chandra Sutradhar (Distinguished Professor and Chairperson) Sir, Prof. Dr. Ismail Chowdhury (Professor) Sir, Dr. Md. Shariful Alam (Associate Professor) Sir, Dr. Jagannath Biswas (Associate Professor) Sir, Md. Mahbubur Rahman (Senior Lecturer & Program Coordinator) Sir and Md. Monir Hossan (Lecturer & Program Coordinator of Permanent Campus) Sir. They discussed their perspectives on GUB's success. Through insightful speech of Prof. Dr. Nitai Chandra Sutradhar (Distinguished Professor and Chairperson) Sir inspired the faculty members for achieving the next success for the Textile Engineering department. This program was extremely enjoyed by all of the faculty members and everyone is now highly boosted up to do something great for the Department as well as our University.





Photo-39: Textile Engineering “Faculty Get-Together Event”

9.3 Library Orientation Program for the Department of Textile: Fall 2022 the Department of Textile had organized an Orientation program on Monday, 31 October at 6:00 pm using the Zoom Platform. The program covered an informative session followed by a practical demonstration of the resources, services, and facilities of the library, and how to avail of them. Around 51 participants were present at the Orientation. The program began with greetings and anchoring by Sadia Washima a student of the Department of Textile. She then invited the Deputy Librarian of the GUB Library Mr. Md. Ashiqur Rahman to conduct his session. In his session, the Deputy Librarian presented the details of printed resources,

e-resources, study facilities, rules and regulations, e-library, cyber zone, and so on. Later he demonstrated the process of searching and downloading e-books and articles from various publishers. Afterward, the anchor invited the Session Chair Associate Professor DR. MD. SHARIFUL ALAM to deliver his valuable Speech. In his Speech, the respected chair defined the education system at the university that is dissimilar to school and college and not centered on textbooks only. Topics of their syllabus may be found in different book chapters, journal articles, online resources, and so on. They can find a list of texts and references in the lesson plan that their course teachers share with them. They will find most resources from the library. If they require a degree with knowledge and skills they have to go to the library and study as much as they can. They require emphasizing printed resources first and then online. The Library has non-academic collections too, like fiction, Bongobondhu, and Liberation war-related books, historical collections, etc. Students require studying them to build non-academic knowledge and skills. He suggested visiting the library with friends and fellows, asking the Library officials about resources, and studying with them. At the end of the program, the anchor appreciated the organizing team for arranging a fruitful session and students and faculty members for joining the orientation program.



Green University

Textile Engineering Department

LIBRARY ORIENTATION PROGRAM

for the Department of Textile Engineering : Fall 2022

Date: October 31, 2022, **Time:** 06.00 PM

Facilitator
Mr. Md. Ashiqur Rahman
Deputy Librarian
GUB Library

Session Chair
Dr. Shariful Alam
Associate Professor
Dept. of Textile Engineering

Platform :  **ID: 67358442388** | Password: 2697



Photo-40: Library Orientation Program for the Department of Textile: Fall 2022

10. Conclusion:

The year 2022 marked a period of dynamic progress and academic enrichment for the Department of Textile Engineering at Green University of Bangladesh. Through a well-balanced blend of academic rigor, industry-oriented exposure, co-curricular engagement, and research innovation, the department has significantly advanced its mission of producing competent and socially responsible textile engineers.

The successful organization of international conferences, impactful seminars, industry visits, and flagship events like TEX FEST-2022 reflects the department's commitment to holistic student development and strong industry-academia collaboration. Notable achievements in research and innovation—including international awards and impactful publications—further underscore the department's growing prominence in the textile education and research landscape of Bangladesh.

With continued dedication from faculty, enthusiastic student participation, and supportive institutional leadership, the department remains steadfast in its vision of promoting sustainable, innovative, and globally relevant textile education. The momentum built in 2022 sets a strong foundation for even greater accomplishments in the years to come.