

# ANNUAL SDGs REPORT 2023



# KEY FACTS



**5** Acres  
Campus Size

 **50+**  
Free Transportation

 **17 Cr.**  
Financial Aid

**3** Acres  
**Green Field**

 Sustainable  
**Buildings**

 **Women**  
Forum



**CETL**  
Center for Excellence for  
Teaching and Learning



**SUSTAINABLE  
TECHNOLOGIES  
FOR INDUSTRY 5.0**

# PREFACE

Green University of Bangladesh (GUB) stands as a beacon of educational excellence, innovation, dedication, and environmental responsibility in Bangladesh, committed to fostering sustainability and supporting the United Nations Sustainable Development Goals (SDGs), with a particular emphasis on alleviating poverty (SDG 1), ensuring good health and well-being (SDG 3), providing quality education (SDG 4), promoting affordable and clean energy (SDG 7), and fostering decent work and economic growth (SDG 8). This commitment manifests through an array of impactful initiatives that extend beyond the classroom, impacting both our local and global communities. Our sustainability initiatives are not limited to theory; they extend to hands-on research, dynamic partnerships, and regular workshops and seminars that foster dialogue, innovation, and collaboration. These activities enable our students and faculty to engage actively with real-world challenges, seeking solutions that are not only impactful but also replicable and scalable. By forging partnerships with other educational institutions, governmental organizations, NGOs, and the private sector, GUB serves as a hub of knowledge exchange and transformative action in Bangladesh. As we share our work and the outcomes of our initiatives, we hope to inspire others to join us in our pursuit of a sustainable, equitable, and prosperous future. We invite you to explore our journey, celebrate our achievements, and support our vision as we work together towards a brighter tomorrow.

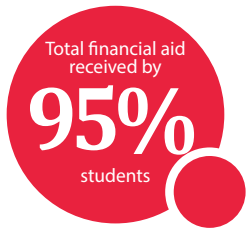
CONTENTS	PAGE
• No Poverty	4-6
• Zero Hunger	7
• Good Health and Well-being	8-9
• Quality Education	10-11
• Gender Equality	12
• Clean Water and Sanitation	13
• Affordable and Clean Energy	14-15
• Decent Work and Economic Growth	16-17
• Industry, Innovation, and Infrastructure	18
• Reduced Inequality	19
• Sustainable Cities and Communities	20
• Responsible Consumption and Production	21
• Climate Action	22
• Life Below Water	23
• Life on Land	24
• Peace, Justice, and Strong Institutions	25
• Partnerships for the Goals	26-28



1 NO POVERTY



End poverty everywhere



Up to **75%** scholarship facility for the deserving international students from low-income countries.

**56.67%** growth in offering financial aid to the students in 2023.

Green University of Bangladesh grants **17 Cr.** BDT annually as scholarships, financial aid, and tuition waivers to support student access to higher education in 2023.

RESEARCH

Microfinance Performance for Better Governance Practices

This research examines the impact of board leadership structure on microfinance performance by analyzing 80 Bangladeshi microfinance institutions. Using GLS and LSDV models, it finds that CEO duality positively affects microfinance sustainability but negatively impacts outreach to the poor. These results highlight the dual role of board leadership in supporting sustainability while limiting outreach, adding valuable insights to microfinance governance literature.

Microfinance Governance

In this paper, the researcher identifies the agency theory's limitations in governance, particularly its failure to account for broader stakeholder influences on organizations. By integrating four management theories, it proposes an expanded governance framework that incorporates these stakeholder forces. The work reviews and critiques existing literature to support this approach and suggests further studies to validate it in diverse institutional settings.

EVENTS

Bank Loans to Support Student Education

Green University supports its students, especially lower-income students. The university authority has already collaborated and signed MoU with different financial institutions and banks to support lower-income student tuition fees and other financial benefits. In this context, Green University of Bangladesh signed an agreement with Bank Asia for a tenure of five years in 2022. The aim of this agreement is to provide loans to the students from low-income families to manage their tuition fee with minimum interest rates.



Blood Donation Camp 2023

Green University Social Bonding Club organized a cloth distribution program in a slum of Cumilla on 23 January 2023. The event was conducted with the theme, "Let's spread warmth this winter." Since during winter, there are many people who feel the crisis of winter clothes, and with that in mind, this small initiative of the "Green University Social Bonding Club" from the Department of Sociology and Anthropology of Green University had organized this event.



GUB Buses



GUB Canteen



GUB Campus

## SERVICES

### Transportation

Green University offers free daily transportation for students, faculty, and staff, operating **50+ buses, 10+ micro-buses and 5 other vehicles on 20 routes**. This initiative saves students on an average of 100 Tk per day in commute costs, with a daily subsidy of approximately **BDT 550k**.

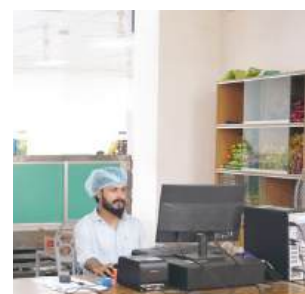


GUB Bus Bay

### Accommodation

Green University provides a secure and reliable hostel facility for student accommodation. It has 03 hostels, 02 for boys and 01 for girls. Hostels are managed according to a specific modern accommodation policy and guidelines. Each hostel is furnished with modern facilities for the students. Managing residence outside the university campus costs approximately **BDT 12k** for each student. So, considering the financial status of most of the students, the university subsidizes the hostel fee by 34%.

### Canteen



Green University has a well-designed university canteen that supports student well-being. It has a **capacity of 1000** people which is managed by the university authority. Where in the neighbouring area, standard lunch cost is minimum 120-150 BDT per person, Green University Canteen provides lunch for 70-100 BDT. The students need to pay **55%-60%** of the food cost and university **subsidizes 40-45%** of the food cost.

### Scholarship for International Students

Green University of Bangladesh (GUB) provides scholarships and waivers for overseas students from low-income nations. The university offers to the international students a **25% to 75%** tuition fee waiver. GUB is committed to making quality education accessible to talented students worldwide and provides merit-based financial assistance.



GUB Campus



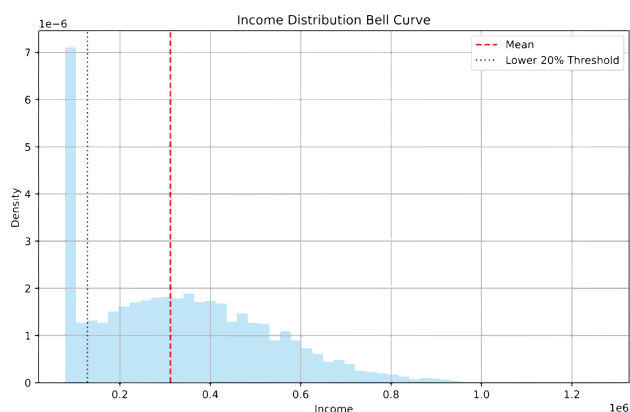
GUB Campus



GUB Campus

## Tuition Waiver

Green University provides a wide range of scholarships and tuition waivers, including merit-based and special category awards. In recent efforts, more students have become eligible for financial aid, with significant growth in scholarships and tuition waivers, especially benefiting female enrollment. The university remains committed to expanding access to quality education by allocating substantial resources for student financial support. In 2023, around 95% of students received financial aid amounting to **BDT 17 Cr.**



## OTHERS

### Local Start Up

GUB supports local startups with approximately **BDT 230k** in financial assistance per project for a three-year duration. The goal is to tackle local challenges like unemployment and poverty by promoting an entrepreneurial mindset. The projects focus on technological innovations, renewable energy, energy efficiency, and other sustainability efforts, leveraging GUB's resources, network, and academic expertise to empower entrepreneurs and create community impact.

### Seminar and Workshop

Green University of Bangladesh organizes seminars, workshops, and international conferences focusing on sustainability. In 2023, **over 40 seminars and workshops** were held to support SDG goals. The annual STI 2023 conference also brings together researchers from various fields to present innovative research aligned with sustainable development objectives.

**1203** students received financial aid out of **1320** students in 2023

**90.14%** growth in female student admission due to offering additional **5%** scholarship in 2023

Green University subsidizes

**55-60%** of the food cost

Daily subsidy of approximately

BDT **550,000** for trasportations



GUB Campus

2 ZERO  
HUNGER

End hunger, achieve food security

Publications

8

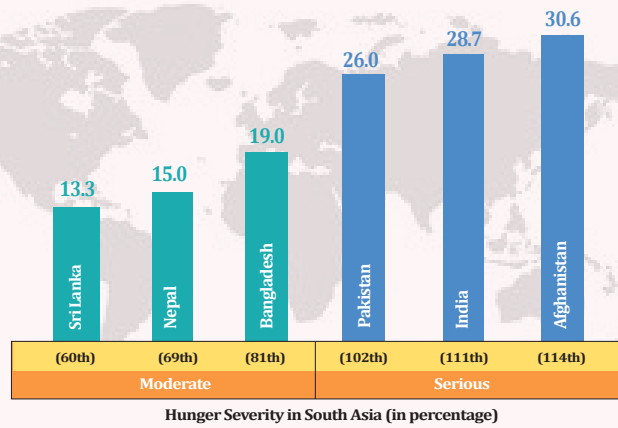
## RESEARCH

### Modern Agriculture Monitoring System

Researcher addresses the critical challenges faced by the agricultural sector in Bangladesh, which contributes over **20% to the national GDP**. It focuses on enhancing farmers' capabilities to assess their soil and crop conditions through a portable device equipped with sensors for moisture, humidity, temperature, and pH levels. By analyzing this data, the system provides timely decision-making support via SMS alerts, promoting efficient irrigation and improved soil fertility. The integration of smart farming technology, coupled with a web-based monitoring system on the IoT platform Blynk, aims to modernize agriculture, increase productivity, and ultimately contribute to food security and the reduction of hunger in farming communities.

### Cabbage Cultivation

Researcher focuses on enhancing cabbage crop productivity by addressing pest infestations that threaten yields. Conventional pest management methods, such as pesticides, are ineffective and harmful to the environment and human health. By leveraging machine learning (ML), specifically the YOLOv5 detection model, this study creates a dataset of four insect classes to enable real-time identification of harmful pests like aphids and diamondback moths. This innovative approach aims to improve pest management practices sustainably, ultimately supporting farmers in mitigating crop losses and promoting food security. The outcomes highlight the potential of ML to revolutionize agricultural practices and contribute to reducing hunger.



Hunger Severity in South Asia (in percentage)

## EVENTS

### Reflection on Bangladesh National Budget 2023-24

On June 15, 2023, Green University of Bangladesh (GUB) organized a seminar titled "Reflection on Bangladesh National Budget 2023-24" at the Permanent Campus, beginning with recitations from the Holy Quran, Gita, and Bible. The seminar included presentations by Green Business School (GBS) students, who analyzed and discussed various components of the budget, such as allocations for education, GDP growth rate, inflation, revenue sources, and implementation of development programs, with support and guidance from faculty members.

The event included a panel discussion where a guest highlighted the national budget's role in shaping sectoral development. Students presented on budget trends, covering expenditure, revenue, allocations, and cross-country education investment analysis. University leaders stressed transparency, anti-corruption efforts, and strategic investments in large projects to drive sustainable growth. The seminar offered valuable insights into fiscal policy's impact on national development to the students.



# 3 GOOD HEALTH AND WELL-BEING



Ensure health and well-being for all

Publications  
**85**

GUB Medical Center



## RESEARCH

### Post-COVID-19 Health Effects

Study investigates post-COVID-19 health effects in Bangladesh, focusing on demographic, physiological, and neurological factors like age, sleep, emotional states, and memory. Survey data from recovered patients were analyzed using machine learning models, with statistical validation through Chi-square and Pearson's coefficients. Among various models, the Decision Tree proved most effective, identifying significant health impact predictors using the Gini Index, Feature Coefficients, Information Gain, and SHAP values.

### Revolutionizing Cancer Therapy

Cancer accounts for about 16% of global deaths, and the Cancer-Moonshot initiative aims to halve cancer mortality over the next 25 years. Early detection and treatment are essential, with AI playing a significant role by enhancing diagnostic accuracy, identifying risk factors, and enabling personalized treatments. AI tools improve understanding and treatment precision but must be accessible to healthcare professionals. This research reviews AI's trends, challenges, and future in cancer research, offering insights for medical and technical experts.



GUB Campus

## EVENTS

### Kite Festival

EEE Club of Green University hosted a "Kite Festival" to celebrate Bangladeshi culture and bring excitement to daily routines. The event featured a kite-flying competition, a "Pitha Utshob" with traditional Bengali treats, a cultural program showcasing Bangaliana, and various stalls, making it a vibrant celebration of community and culture.



### Intra-University Football Tournament 2023

On May 19, 2023, the Green University Sports Club organized the Fifth Intra-University Football Tournament at the Purbachal American City campus. The Vice-Chancellor inaugurated the event, which included participants from students, faculty, and staff across 8 departments. The tournament aimed to promote teamwork, discipline, and personal growth, encouraging a spirit of friendly competition and community engagement.



GUB Campus

## OTHERS

### Collaboration and Health Services

Green University's sports facilities serve as a vibrant hub for community sports, hosting various events like football, badminton, table tennis, carrom, and volleyball tournaments. For this purpose, GUB has 3 acres of green space with well-facilitated football, cricket, volleyball, and other grounds, which are freely accessible to GUB students and faculty, while external groups can rent it by completing a booking form. Over the years, this ground has become a center for dynamic tournaments, fostering community engagement and active participation from students and faculty.



Green University offers badminton and volleyball courts exclusively for students and faculty, providing a space for physical activity and relaxation. Recently, table tennis and carrom boards were added to our recreational amenities, quickly becoming favorites for both leisure and skill-building. These activities have also fostered stronger connections between faculty and students, enhancing the community spirit on campus.



### Mental Health and Well-being Initiatives



Green University's Meet the Counselor Program, led by psychologist Mst. Farhana Khatun, provides students with essential guidance on personal and academic development, promoting their overall growth. Additionally, the university offers regular mental health support sessions for staff, helping them manage work-related stress and personal challenges. These initiatives create a nurturing, supportive environment that enhances the well-being of the entire university community.

### Future and Ongoing Plans

GUB aims to enhance health and well-being by:

- Collaborating with more healthcare providers for expanded medical and mental health services.
- Upgrading sports facilities and organizing community-inclusive events.
- Increasing mental health support with regular counseling and awareness programs.
- Hosting health education workshops on nutrition, mental health, and disease prevention.

Aligned with SDG 3, these initiatives support a culture of health, well-being, and social responsibility, benefiting students, staff, and the wider community.

4 QUALITY  
EDUCATION

Provide inclusive, quality education

Events

20

## RESEARCH

### Tools and Techniques Adapted for Teaching

Researchers examine the abrupt shift to online teaching in Software Engineering Education and Training (SEET) courses during COVID-19, exploring tools and techniques that educators used, lessons learned, and student perspectives. Through interviews with 16 SEET educators globally and surveys with **over 300 participants**, the study identifies common challenges and offers practical suggestions for improving remote education in future transitions.

### Blended Learning Platform in Higher Education

The "Intelligence of Learning Things" (IoLT), an IoT-based blended learning platform aimed at improving education in developing countries by enhancing traditional methods with smart, collaborative tools. IoLT allows devices and applications to connect teachers and students, facilitating interactive learning and sharing. This model aims to provide more efficient and innovative learning strategies compared to conventional approaches.



GUB Campus



## EVENTS

### Battle of Brain: STEAM Edition

The "Battle of Brains: STEAM Edition" Grand Finale featured competitions like the Circuit Olympiad, Photography Contest, Campus Stories, and Creative Video Contest. Winners were honored for their achievements, and distinguished guests, including the Acting Vice Chancellor and academic leaders, shared inspiring speeches. The event celebrated student talent and creativity, with a special thanks to the organizing committee and participants.



### Seminar on "Higher Studies and Career Opportunities in UK"

On March 7, 2023, Green University's Center for International Affairs (GCiA) and EEE PES organized a seminar on "Higher Studies and Career Opportunities in the UK" in Room 302. The seminar provided insights on study opportunities, application processes, and cultural adjustments for students interested in pursuing higher education in the UK. Faculty members shared their experiences and advice on academic success and securing funding for studying abroad. The event concluded with a Q&A session and a vote of thanks.



GUB Campus



GUB Campus

## Teaching & Learning

### Developing Future Teachers

On February 13, 2023, Green University's Center for Excellence in Teaching & Learning (CETL) launched its inaugural "Developing Future Teachers (DFT)" program, aimed at nurturing outstanding graduate and undergraduate students. The program, which started in Spring 2023, observed 31 students from various GUB departments participate in an orientation session. The event featured inspiring talks by CETL's director and faculty members, setting the stage for an enriching journey. The program offers benefits such as potential adjunct faculty roles, certificates, job placement opportunities, and involvement in research and voluntary projects.



## EVENTS

### Private and Public Collaboration

In 2023, Green University of Bangladesh (GUB) fostered collaboration with private and public sector organizations to enhance academic excellence and innovation. As part of this initiative, CETL organized a member recruitment workshop where Give Bangladesh (NGO) recruited **around 120 volunteers** from GUB, aligning with Sustainable Development Goal 4 to provide access to quality education and promote community development.

**APPLY NOW**  
Be a part of our team  
With Association of  
**CETL**  
Green University of Bangladesh

- Wednesday 11/10/23
- 2:00 PM
- 302 Seminar Room

**1. Recruitment**  
Identify potential volunteers

**2. Execute Project**  
Kombat to integrate hands-on training on project management

**3. Road to Development Work (Training)**  
to equip volunteers with necessary skills and knowledge

**4. Hold Recognition Ceremonies**  
for Volunteers to acknowledge and appreciate their efforts

**5. Team Placement**  
based on their skills and interests

**6. Regular Supervision**  
of Volunteers

**7. Offer Professional Development**  
for Volunteers

**VOLUNTEER CYCLE**

**YOUR CHARITY DESERVES TO MAKE A DIFFERENCE**

### Student Financial Support

Green University of Bangladesh offers merit-based scholarships with fee waivers ranging from **10% to 40% based on SSC and HSC** results. Special waivers are also available for female students, siblings and spouses, ethnic groups, corporate employees, and second-degree programs.

5 GENDER EQUALITY



Equality for all genders, progress for all



RESEARCH

**The Advancement of Gender Equality in the Microfinance Sector**

This research analyses the influence of governance on the dual performance objectives of microfinance institutions (MFIs) in Bangladesh, focusing on the roles of the board of directors, management, and external governance. This analysis reveals that board composition, particularly the presence of female directors, affects outreach negatively, while female managers significantly enhance the depth of outreach. These findings highlight the need for targeted governance structures in hybrid organizations like MFIs to promote gender diversity and stakeholder engagement. The research emphasizes the importance of implementing a Social Director on the board to better align with social goals, contributing to the advancement of gender equality in the microfinance sector.

EVENTS

**Celebration of Women's Day 2023**

On 7th March 2023, via Zoom, the Women's Forum of Green University of Bangladesh celebrated International Women's Day with an event themed "DigitALL: Innovation and technology for gender equality." Distinguished guests and university leaders discussed women's role in tech, the digital gender gap, and online gender-based violence, emphasizing how women's inclusion drives innovation and equality.



**Safety Measures to Reduce Vulnerabilities of Online Harassment**

On 29th December 2023, in Room A-409, Green University of Bangladesh organized a seminar focused on reducing vulnerabilities to online harassment. The program included discussions on preventing online harassment and promoting safe internet practices. Participants were educated on key safety measures and strategies for protecting themselves while using the internet, emphasizing the importance of awareness in fostering a safer online environment.

Green University of Bangladesh offers

**5%**

additional tuition waiver to the **female** students, totaling

BDT **4.5 Cr** annually.

# 6 CLEAN WATER AND SANITATION



Ensure water and sanitation for all



Publications  
**4**

## RESEARCH

### Petrochemical Wastewater Treatment

This paper asserts the importance of wastewater treatment plants in maintaining environmental balance and ensuring high-quality effluents amidst growing concerns over water scarcity. It explores the application of machine learning techniques, specifically Backpropagation Neural Networks, to enhance the efficiency of petrochemical wastewater treatment processes. By utilizing data from a reputable chemical plant, the study develops predictive models to optimize treatment performance. This research highlights the potential of innovative technologies to improve water treatment systems, supporting the Sustainable Development Goal of ensuring availability and sustainable management of water and sanitation for all.

### Intelligent Irrigation System for Agriculture Industry

This paper deals with growing global demand for freshwater amidst population increases by presenting an IoT-based intelligent irrigation system for the agriculture industry. Utilizing humidity and soil sensors, the system collects and stores soil-related data in a centralized cloud, employing a CFS algorithm to filter out irrelevant information. The data is clustered using the K-means algorithm, and classification models, including SVM, Random Forest, and Naïve Bayes, are developed for predicting water demand and optimizing irrigation. The K-means SVM hybrid classifier achieves an impressive accuracy rate of 98.5%, demonstrating its potential to enhance water efficiency in agriculture, thereby supporting the Sustainable Development Goal of ensuring availability and sustainable management of water and sanitation for all.

## FACILITIES

### Hygienic and Comfortable Campus Facilities

Green University of Bangladesh (GUB) is deeply committed to creating a clean, comfortable, and safe campus environment that reflects our dedication to the well-being of students, faculty, and staff. Recognizing the importance of health and hydration, we have installed water purifiers in each building to ensure access to pure, filtered drinking water for everyone on campus.



Beyond safe drinking water, we prioritize privacy and comfort in our facilities by providing separate, well-maintained washrooms for male and female students. Each washroom is regularly serviced to uphold high standards of hygiene, ensuring a clean and accessible environment for all. Our commitment to these facilities is part of a broader mission to foster a supportive, healthy, and inclusive campus. At GUB, we strive to maintain and improve these amenities as essential to student welfare, convenience, and academic success.

# 7 AFFORDABLE AND CLEAN ENERGY



Ensure affordable, clean energy



Publications  
**169**

## RESEARCH

### Energy-Efficient Aware in Maritime

Researcher introduces VESBELT, an optimization framework for offloading tasks from Maritime IoT (MIoT) devices to edge or cloud servers to address energy and latency issues in marine networks. Recognizing the NP-hard nature of this problem, three systems—VESBELT-ECNN, VESBELT-EANN, and VESBELT-ELSTM—are proposed, utilizing ensemble deep learning models to provide efficient, real-time solutions. Experimental results show these models improve user Quality of Experience (QoE) in terms of timeliness and energy efficiency compared to existing methods.

### Microgrid for Electrification of Remote Communities

Integrating renewable energy-based microgrids to address electricity shortages in rural southern Bangladesh, focusing on the Ruma area. The off-grid system includes solar, hydro, and battery storage, while the on-grid system uses solar and hydro power. Simulations show the on-grid system is economically sustainable with a low LCOE and strong returns. Environmental benefits include significant reductions in CO<sub>2</sub> emissions. The study provides a foundation for policymakers to consider hybrid microgrids for rural electrification, emphasizing solar and hydropower.

## EVENTS

### Industrial Visit to Energypac Engineering Ltd.

On May 20, 2023, the Department of EEE at Green University organized an industrial visit to Energypac Engineering Ltd., a top power engineering company in Bangladesh. A total of 41 students from the 193 and 201 batches, along with three faculty members, participated in the visit. They explored various sections, including Instrument Transformer, Isolator, Switchgear Protection, and Transformer Departments, guided by Energypac staff. Students engaged actively by taking notes, asking questions, and were encouraged to consider internships. The visit, which included lunch, provided valuable hands-on learning and insight into their field.



### PV Performance Workshop

On May 26, 2023, the IEEE PES GUB Student Branch hosted a workshop on PV module performance, providing hands-on experience in testing and analyzing solar panels. Led by Dr. Ahmed Al Mansur and other faculty, students gained practical skills and insights into renewable energy applications. The session ended with a Q&A, inspiring participants to explore careers in sustainable energy.



## Practices

### Sustainable Building Designs

The university integrates energy-efficient designs into all new construction and renovations. This includes features like maximizing natural lighting and ventilation, using sustainable materials, and targeting certifications for sustainable building practices. These initiatives help reducing the environmental impact of campus infrastructure and promote energy efficiency.



### Sustainable Construction Practice

During construction, the university emphasizes minimizing environmental impact by implementing recycling programs and sustainable guidelines for contractors. This reduces waste and encourages eco-friendly building approaches.

### Energy-Efficient Technologies

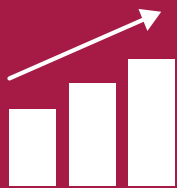
The university is committed to replacing outdated equipment with energy-efficient models, such as LED lighting and sensor-based controls for lighting and HVAC systems, to minimize energy consumption across campus.



### Promoting Sustainability Awareness

Through workshops, seminars, and campus-wide campaigns, the university promotes energy conservation and eco-friendly practices. Online resources, along with sustainability-focused courses, foster environmental awareness and encourage sustainable behaviors among the university community.

# 8 DECENT WORK AND ECONOMIC GROWTH



Promote inclusive economic growth and decent work

Publications  
**33**

## RESEARCH

### Sustainability and Social Outreach of Microfinance Institutions in Developing Markets

This research investigates how board stakeholders influence the sustainability and outreach of microfinance institutions (MFIs) using a multi-theoretical approach and data from a developing country. It finds that independent directors positively impact both sustainability and outreach, while stakeholders like employees, donors, and female board members have mixed effects, influenced by the age and size of the MFI. CEO duality supports sustainability but negatively affects outreach. This study recommends appointing an independent board member as a social director to enhance stakeholder involvement and help MFIs achieve their dual objectives in developing markets.

### Economic Growth, and Technological Innovation on Carbon Emissions

Researchers examines the impact of petroleum consumption, economic growth, and technological innovation on carbon emissions in Bangladesh from 1972 to 2020. The findings show that petroleum consumption and economic growth contribute to higher carbon emissions, while technological innovation helps reduce emissions and improve environmental sustainability. Additionally, technological innovation moderates the effect of petroleum consumption on emissions. The study recommends reducing petroleum reliance, integrating environmental goals into economic policies, and fostering technological development to mitigate carbon emissions.



## EVENTS

### Dream Exhibition: Pathway to Success

On May 11, 2023, Green Business School hosted the "Dream Exhibition: Pathway to Success" as part of the Business Communications course. The event inspired students to connect their dreams with success through effective communication. Guided by university leaders, attendees explored the importance of setting goals and gained motivation to pursue their aspirations confidently.



### Chartered Accountancy: A Career Choice

On March 21, 2023, Green Business School (GBS) and ICAB organized an awareness program on chartered accountancy as a career. Around 120 students attended, who learned about the Chartered Accountant (CA) profession's requirements, challenges, and career paths in Bangladesh. The event included presentations, quiz and award giving ceremony.



Permanent Employees  
**326**

Contractual Employees  
**115**

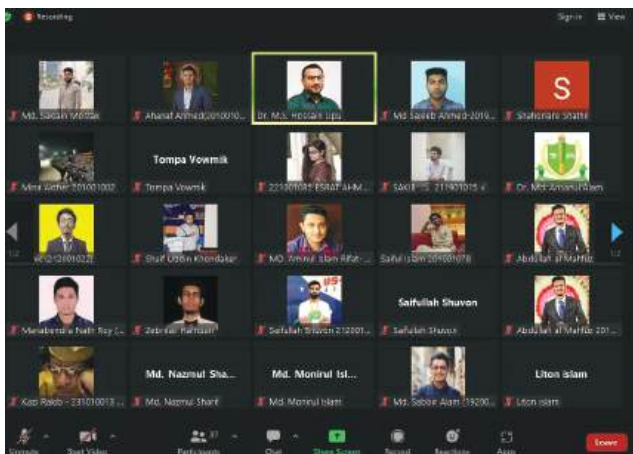
Number of students in 2023  
**6843**

Completed Degree in 2023  
**1771**

GUB Campus

### Webinar on Manufacturing Electrical Equipment Jobs in Bangladesh's Power Industries

On September 24, 2023, IEEE PES GUB SBC hosted a webinar on "Job Opportunities in Manufacturing Electrical Equipment in Power Industries of Bangladesh." Dr. Molla Shahadat Hossain Lipu, Advisor of IEEE PES GUB SBC, opened the event, followed by a speech from Prof. Dr. ASM Shihavuddin, Chairperson of the Department of EEE at GUB. The keynote speaker, Mufid Anam Litu, a Senior Engineer at Reverie Power and Automation Engineering Ltd and GUB alumni, discussed job opportunities in the power sector, interview tips, and career preparation. The session ended with a Q&A and closing remarks from Dr. Ahmed Al Mansur, Associate Chairperson of the Department of EEE at GUB.



### On Campus Recruitment with "Call Point Business Solutions"

The Center for Career Development (CCD) at Green University of Bangladesh organized an "On Campus Recruitment" session with Call Point Business Solutions, an international telesales company. The walk-in interview, held from 12-3 pm at the Syndicate Room (Building-A), observed a significant number of student participation, resulting in 12 students being hired directly. Students who missed the session will have the opportunity to attend interviews at the company's office. CCD plans to organize similar recruitment programs regularly for students.



# 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Build resilient infrastructure  
and foster innovation

Publications

61

## RESEARCH

### Revolutionizing Urban Mobility: Sustainable Traffic Management

This paper proposes an AIoT-based system to enhance urban traffic management in Dhaka, Bangladesh. Utilizing a customized dataset of 200 data points, the model achieved high precision in identifying various road users: 89% for CNG vehicles, 84% for cars and buses, and 84% for pedestrians, while demonstrating 80% accuracy in lane detection. With only a 0.4% misclassification rate between cars and motorcycles, the findings indicate significant potential for refining object detection. By leveraging innovative AIoT technologies, this research lays the groundwork for improved traffic management strategies, promoting efficient infrastructure in rapidly urbanizing environments, and aligns with the SDG for industry, innovation, and infrastructure.

### Energy Management for Renewable Energy Integration Towards Grid Decarbonization

For effective energy solutions to combat carbon emissions, a primary driver of air pollution and climate change. The research provides a comprehensive review of current medium-voltage inverter technologies, including structural analysis, model development, and energy management schemes, while identifying research gaps and applications for grid decarbonization. By offering insights into the strengths and limitations of these technologies, the study serves as a valuable resource for researchers, engineers, and decision-makers, promoting innovation and sustainable infrastructure aligned with the SDG for industry, innovation, and infrastructure.



## EVENTS

### Study Tour to DTG- 2023, Dhaka International Textile and Garment Machinery Exhibition



On 2023, the Department of Textile Engineering at Green University of Bangladesh organized a study tour to the DTG-2023 (Dhaka International Textile and Garment Machinery Exhibition) at ICCB. This exhibition featured suppliers from **1,200 leading brands across 35 countries**, showcasing modern machinery and the latest trends in the textile and garment industry. A total of 60 students participated, with 33 from the city campus and 27 from the permanent campus, all traveling together via university-provided transportation. The visit was supervised by four faculty members who divided the students into groups, with Associate Professor Dr. Jagannath Biswas serving as the adviser for the trip.



GUB Campus

10 REDUCED  
INEQUALITIES

Reduce inequalities globally

Events

6

## RESEARCH

**Real GDP, Real Gross Capital Formation, and Foreign Direct Investment**

The volatility of Bangladesh's economic indicators, specifically real GDP growth rates, gross capital formation, and foreign direct investment inflows, using data from 1972 to 2020. By employing ARIMA and ARCH models, the study analyzes the conditional mean and variance of these growth rates, revealing a dependence on previous years' rates and highlighting time-varying volatility in the economy. The findings underscore the risks associated with economic fluctuations, which can exacerbate inequalities. Understanding this volatility is essential for policymakers to implement strategies that promote stable growth and reduce economic disparities, aligning with the Sustainable Development Goal of reducing inequalities.

**Motivational Factors of Migration**

This study focuses on the motivational factors affecting the period of migration from Bangladesh to Italy. The econometric model is developed to observe the association between motivational factors and the exploratory determinant variables. The results for the whole sample consisting of **300 households** show the explanatory power of both long and short regressions. Finally, the multivariate analysis finds the significant push factors are social network, social status, social prestige, better marriage opportunities for migrants, and pull are factors heavily influenced by their relatives that already live in Italy, family reunification, frequent regularisation policy, integration policy, and citizenship opportunity.

GUB Campus



## EVENTS

**Managing Sustained Quality Performance of GUB Offices: The Role of Ethics, Etiquette, and Manner**

On June 17, 2023, the CETL at Green University of Bangladesh organized a successful workshop on ethics and professionalism. Participants engaged in discussions, practical exercises, and team-building activities that promoted collaboration. A presentation on GUB's 10-Year Academic Master Plan highlighted the university's commitment to growth. The workshop enhanced GUB's professional culture and supported key Sustainable Development Goals related to quality education and reduce inequalities.

**Organizational Ethics, Culture, and Values: Strengthening Togetherness**

On August 22, 2023, CETL hosted a workshop at Green University of Bangladesh to promote organizational ethics, culture, and values. The event featured lectures, collaborative exercises, and a Kahoot game to strengthen connections and foster a positive culture. A presentation on the 10-Year Academic Master Plan underscored the university's growth commitment. Participants' insights enhanced discussions on the importance of organizational values in development.

# 11 SUSTAINABLE CITIES AND COMMUNITIES



Make cities inclusive and sustainable

Publications  
**30**



GUB Campus

## EVENTS

### Landscape of Smart Grid and SCADA System Security



This keynote presentation explores three key areas of Smart Grid and SCADA system security. It begins by examining data privacy and integrity through innovative federated learning and blockchain frameworks. Next, it addresses Smart Grid vulnerabilities, focusing on detection and mitigation strategies for False Data Injection (FDI). The presentation also covers Cyber-Physical Security Integration, highlighting novel methods to detect power system device attacks and differentiate cyber threats from physical faults. Ultimately, it provides insights into securing critical infrastructure from emerging cyber threats.

### Industrial Visit to Chorka Textile Ltd.

On May 21, 2023, the Department of Textile Engineering organized an industrial visit to Chorka Textile Ltd. for 29 students and two faculty members. After departing at 9:00 AM and arriving by 11:00 AM, the group was welcomed with an introductory speech. Students toured various departments, including merchandising, storage, and sewing, while documenting their learnings. The visit concluded with a Q&A session, and snacks and lunch were provided, making it a valuable experience for gaining practical insights into their field.

## RESEARCH

### Carbon Emission Measurement

A model is proposed in this research to monitor and manage vehicle emissions, addressing air pollution in both urban and hilly areas in Bangladesh. Using sensors and GPS, the model tracks greenhouse gas levels, identifies areas with high pollution, and detects unfit vehicles, sending alerts to authorities for timely action. By accounting for increased emissions in hilly regions, where fuel consumption **rises by 20%**, the model's dynamic threshold system helps reduce urban pollution, supporting healthier, more sustainable urban environments.

### Sustainable Paths for Tomorrow's Urban Landscapes

A smart and sustainable urban development plan for Purbachal City, Dhaka, Bangladesh, focusing on renewable energy and eco-friendly mobility to support the SDG for sustainable cities. By installing solar panels on infrastructure and deploying Type D electric buses, the project aims to reduce reliance on fossil fuels. Simulations show the solar system can **generate 7,317.34 MWh** annually, **saving 84,479 tons of CO<sub>2</sub>**. With an LCOE of 0.02 USD, IRR of 11%, and an ROI of 7.7%, this economically viable approach enhances resilience, environmental sustainability, and quality of life in urban settings.

12 RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION

Promote sustainable consumption  
and production

Publications

13

## RESEARCH

### Improved Energy Management of a Thermal Power Plant

Researchers examine energy management in Ashuganj Power Station Company Limited (APSCCL), a natural gas-based thermal power plant in Bangladesh, to enhance efficiency, sustainability, and economic feasibility. By assessing both energy and exergy efficiencies, which range **between 32-57%**, and using eight sustainability indicators, the study reveals improvement opportunities in fuel depletion and system losses. Intelligent maintenance and equipment upgrades are recommended to lower operational costs, optimize fuel use, and reduce carbon emissions, supporting more sustainable energy production.

### Revolutionizing Agriculture: Optimal Crop Prediction

An innovative IoT-driven Machine Learning and Blockchain framework designed to transform agriculture by enhancing crop forecasting and resource management is proposed in this work. By continuously collecting real-time data on environmental factors and soil nutrients, the framework utilizes a Support Vector Machine model that achieves a remarkable **97.73% prediction accuracy** for crops. The integration of Blockchain technology ensures data transparency and integrity, fostering trust among stakeholders. Additionally, a user-friendly online application enhances accessibility to crop projections and historical data, promoting engagement and informed decision-making. This framework supports sustainable and responsible agricultural practices, ultimately improving efficiency and empowering farming communities.



## EVENTS

### TEX FEST 2023



On 15th and 16th February 2023, the Department of Textile Engineering hosted a two-day event at Green University of Bangladesh. The festivities began with an inauguration and a festive rally, followed by a Career Talk with industry experts and a display of innovative posters. Day two featured an alumni gathering, sports competitions among students, alumni, and staff, and an Industrial Talk with a keynote speaker from Fariha Knit Tex Limited. The event concluded with a prize-giving ceremony and a cultural night showcasing fashion shows and performances, strengthening connections within the Textile Engineering community.

13 CLIMATE  
ACTION

Take action on climate change

Publications

61

## RESEARCH

### Climate Change and Climatic Hazards: Chakma Indigenous Communities

Researchers examine how socio-demographic factors influence perceptions of climate change and related hazards in Rangamati Sadar Upazila, Bangladesh. Findings show that most **respondents (61%) perceive** a moderate shift in climate patterns, with factors like age, education, income, and media exposure significantly shaping awareness. Education, identified as the strongest predictor, along with media access, enhances understanding of climate risks. This research highlights the importance of targeted educational and media interventions to improve public awareness and adaptive capacity in climate-vulnerable areas.

### Solar-Wind Hybrid Power Generation in the Coastal Regions

A hybrid renewable energy system is presented for Patenga Sea Beach, Bangladesh, to reduce reliance on fossil fuels and cut CO<sub>2</sub> emissions **by 5,767 tons over** its lifespan. By integrating solar, wind, and hydropower, the system meets a daily demand of 1,000 kWh with a low levelized cost of energy (LCOE) at \$0.03, ensuring cost-effectiveness and resilience to climate variability. Through simulations, this project demonstrates how hybrid systems can adapt to environmental shifts, supporting sustainable energy production and reducing the carbon footprint in climate-sensitive regions.



GUB Campus

## EVENTS

### World Environment Day Celebration

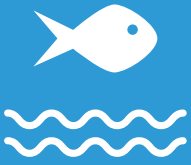
On June 5, 2023, Green University's Department of Sociology and Anthropology celebrated World Environment Day with activities like tree planting, plant distribution, and campus cleaning to address plastic pollution. Students actively participated, making it a meaningful, environmentally-focused event.



### LEO Tree Plantation Challenge 2023

On August 13, 2023, the Leo Club of Green University participated in the LEO Tree Plantation Challenge 2023 at Ramna Park, Dhaka, under the theme "Let's Fight Global Warming." The event emphasized environmental conservation through tree planting and community engagement, while also raising awareness among locals about the importance of tree care for a greener future.

14 LIFE BELOW WATER



Protect oceans and marine resources

Project

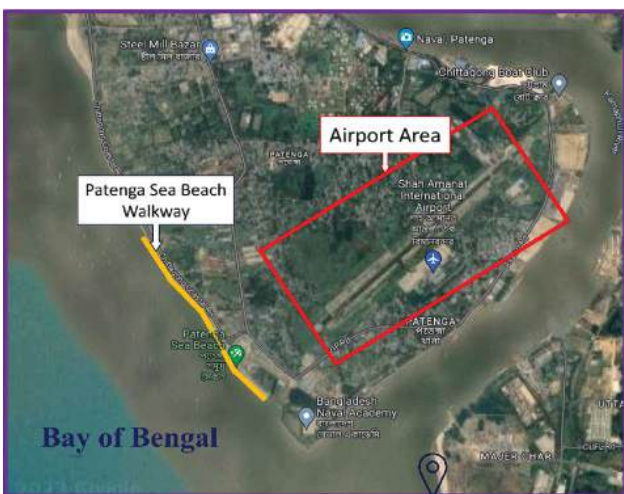
1



RESEARCH

Reducing Reliance on Fossil Fuels and Cutting Greenhouse Gas Emissions in Marine Ecosystems

A research is conducted on Patenga Sea Beach, Bangladesh for reducing reliance on fossil fuels and cutting greenhouse gas emissions, which benefit coastal and marine ecosystems. Harnessing solar, wind, and hydropower, the system minimizes environmental impacts, offering a leveled cost of energy of \$0.03 and an **89% performance efficiency. Avoiding 5,767 tons of CO<sub>2</sub>** emissions, it contributes to cleaner coastal environments and supports sustainable energy goals, promoting eco-friendly development that protects marine life and nearby waters.



A detailed view of the study location on Patenga Sea Beach, Bay of Bangal

EVENTS

Investigation of Marine Ecosystems at the Coastal Area of the Bay of Bengal



An investigation employing Remote Operating Vehicles (ROVs) and advanced machine learning algorithms has performed on the marine ecosystems in the coastal area of the Bay of Bengal. This study aims to assess the biodiversity, ecological status, and potential threats to marine life in this region, as well as to analyse the water quality, temperature, and salinity issues. The ROVs collected high-resolution imagery and video data, while also measuring environmental variables such as water temperature, salinity, and dissolved oxygen. Advanced machine learning algorithms has applied to extract meaningful information from the collected data. The findings of this investigation will have important implications for the conservation of marine ecosystems and the sustainable use of marine resources and will be presented in the form of recommendations for the local authorities.

15 LIFE  
ON LAND

Sustainably manage forests and ecosystems



National Botanical Garden

## RESEARCH

### Reducing Resource Waste, and Strengthening Financial Security for Small institutions

This study addresses the challenge of credit card fraud detection, which promotes economic stability, reducing resource waste, and strengthening financial security for small institutions. Using data mining techniques like Decision Tree, Random Forest, Artificial Neural Networks, and Logistic Regression, the proposed model aims to minimize false alarms and improve fraud detection accuracy. **With 99% accuracy** and reduced false alarms, this approach contributes to secure financial transactions, which underpin sustainable economic practices and reduce potential economic burdens on communities, ultimately supporting a more resilient society.



GUB Campus

## EVENTS

### Visit National Botanical Garden

The Department of Sociology and Anthropology from Green University of Bangladesh visited the National Botanical Garden of Bangladesh in 2023. This visit likely involved exploring the diverse plant species and ecosystems within the garden, which provides a rich educational resource for students studying sociology, anthropology, and environmental sciences. The Botanical Garden offers a unique environment for learning about biodiversity, conservation, and the cultural significance of plant life in Bangladesh.



### Cleaning Operation 2023

On February 17, 2023, the Eco-Warriors Club of Green University organized Cleaning Operation 2023 at the Folk Art Museum, Sonargaon, and Kanchan near the university's permanent campus. Led by faculty members and involving around 30 participants, the event aimed to promote cleanliness and raise environmental awareness among the local community. Through this initiative, the club encouraged community involvement in maintaining hygiene and a sustainable environment.

16 PEACE, JUSTICE AND STRONG INSTITUTIONS



Promote peace and inclusive societies

Events  
9



GUB Campus

RESEARCH

GreenFarm

An IoT-based agricultural model is proposed for empowering farmers by enhancing food security and sustainable farming practices. By providing real-time data on lighting, irrigation, soil, and crop conditions, the system enables efficient resource management and reduces dependency on external resources. Powered by solar energy and connected via NodeMCU ESP8266, it offers an eco-friendly, cost-effective solution that supports rural resilience and stability, helping build a fair and just food system for growing global needs.

Social Outreach of Microfinance Institutions Indeveloping Markets

This study examines how diverse stakeholder representation on Microfinance Institution (MFI) boards enhances both sustainability and social outreach, crucial for supporting underserved populations. Findings indicate that independent directors positively impact the dual mission of MFIs, while roles of employees, donors, and female members vary based on MFI age and size. CEO duality aids sustainability but may limit outreach. Recommendations include appointing an independent social director to broaden stakeholder involvement, fostering inclusive governance that supports resilient and fair financial services in developing markets.

EVENTS

Celebration of 75 Years of Universal Declaration of Human Rights- UDHR Organized by the Department of Law, Green University of Bangladesh

Celebration of 75 Years of Universal Declaration of Human Rights- UDHR program is one of the core programs that the Department of Law all over the world organizes and celebrates. Being the first global document on Human Rights, UDHR has been creating a tremendous positive impact in shaping the constitutions all over the world and developing the paradigm of modern human rights for 75 years. As part of the commitment to ensuring human rights and being part of the global law family, the Department of Law in the Green University of Bangladesh is feeling privileged to celebrate this program.



A Campaign and Orientation Workshop

The Department of Law at Green University of Bangladesh, in collaboration with WAVE Foundation, organized a "Campaign and Orientation Workshop" on June 7, 2023, at the university's city campus for the "Promoting Citizen's Participation for Progressive Taxation Project." Facilitated by Kh. Tahsin Ashrafi, the workshop observed active participation from students and faculties.

17 PARTNERSHIPS  
FOR THE GOALS

Strengthen global partnerships

Publications

86

## RESEARCH

**Climate Change on Rice Productivity**

Researchers examine the symmetric and asymmetric effects of climate change (CC) on rice productivity (RP) in Malaysia using ARDL and NARDL models with data from 1980 to 2019. The results show that rainfall and cultivated area positively affect rice output, while climate change has an asymmetric long-term impact. Positive changes in temperature and rainfall negatively affect rice productivity, while negative changes have a positive effect. The study emphasizes the need for policymakers to consider both symmetric and asymmetric effects of climate change in developing agricultural policies to ensure sustainable development and food security.

**Job Satisfaction on Organizational Performance in the Manufacturing Industry**

Research investigates the factors influencing organizational performance in Bangladesh's manufacturing sector, identifying transformational leadership, human capital, and job satisfaction as key determinants. Data from **294 employees** revealed that these factors explain 59.6% of the variance in performance, with transformational leadership having the strongest impact ( $\beta = 0.443$ ). The study underscores the importance of these factors for enhancing long-term organizational performance and offers practical insights for improving management strategies in the sector.



## INDUSTRY PARTNERSHIPS

**US-Bangla Group**

The MoU between Green University of Bangladesh (GUB) and US-Bangla Group (USBG) establishes internship and job opportunities for GUB students in various sectors like airlines and real estate. USBG will supervise internships, provide skill training, and offer job placements based on qualifications. Both institutions will appoint coordinators to manage the partnership, which can be terminated with 90 days' notice.

**Solarland**

Green University of Bangladesh (GUB) partnered with SOLARLAND to foster industry-academia collaboration in the renewable energy sector. Through this partnership, GUB and SOLARLAND aim to promote sustainable energy practices and innovation, leveraging SOLARLAND's expertise in renewable energy technology, including solar and LED solutions. This collaboration reflects a shared commitment to environmental sustainability and academic advancement.



GUB Campus



GUB Campus

### Bank Asia

Green University of Bangladesh signed an agreement with Bank Asia for a five-year tenure. The agreement aims to provide loans to students from low-income families to help manage their tuition fees at minimum interest rates. The agreement will expire on March 23, 2027.

### MOMODa Foundation

Green University of Bangladesh (GUB) has entered into a Memorandum of Understanding (MoU) with the Momoda Foundation, marking a significant partnership aimed at advancing sustainable development goals (SDGs). This collaboration is focused on leveraging both organizations' strengths to promote initiatives that foster social, economic, and environmental sustainability. By working together, GUB and the Momoda Foundation aim to implement impactful projects and programs that contribute to achieving the SDGs, enhance community engagement, and drive positive change in society. This partnership reflects a shared commitment to educational excellence and the pursuit of sustainable solutions for pressing global challenges.

## UNIVERSITY PARTNERSHIPS

### Louisiana State University

Green University of Bangladesh (GUB) and Louisiana State University Shreveport (LSUS) signed a five-year Agreement of Cooperation to promote student and faculty exchanges, dual degree programs, and joint research. The agreement includes scholarship options, visa assistance, and health insurance requirements, with coordinators from each institution overseeing program administration. The partnership renews automatically unless terminated by either party.

### Hubei University of Technology

Green University of Bangladesh (GUB) and Hubei University of Technology have signed an MOU to collaborate in education, research, and cultural exchange. This partnership includes joint degree programs, faculty and student exchanges, and shared academic conferences and research initiatives. The agreement aims to foster mutual understanding and promote academic and cultural ties between the two institutions, and is set for a duration of six years.

### Industry Partners

### University Partners





GUB Campus

## EVENTS

### 2023 5th International Conference on Sustainable Technologies for Industry 5.0 (STI 2023)



On December 9, 2023, STI 2023 welcomed researchers, industry professionals, and practitioners to showcase their scientific achievements and sustainable solutions in fields such as computer science, electrical engineering, textile engineering, robotics, and cyber-physical systems related to Industry 5.0. The event featured presentations on industrial developments and innovative technologies aimed at advancing future sustainable industries.

#### STI 2023

09

Keynote Speakers

250+

Authors

120+

Senior Academician

35+ Industry Practitioner From 40 Countries

### The 2022 ICPC Asia Dhaka Regional



On 20 May, 2023, Green University of Bangladesh organized the 2022 ICPC Asia Dhaka Regional, bringing together talented students from across the region to compete in one of the most prestigious programming competitions. US Bangla supported the event by providing air tickets as prizes for the winners. The event showcased technical skills and fostered collaboration, celebrating innovation in computer science and problem-solving.



85 research papers were published through international collaborations.

472

Courses are aligned with SDGs



# LIST OF COMMITTEE MEMBERS

## 1 NO POVERTY

**Captain (Navy) Shaikh Mohammad Salahuddin (LPR)**

Registrar (Convener)

**Prof. Dr. Md. Ahsan Habib Tareq**

Professor, CSE & Director, CCE (Co-convener)

**Sourav Barua**

Assistant Professor, EEE & Assistant Director, CCD (Member Secretary)

**Md. Ashraf Anowar ACS**

Director, F&A

**Dr. Md. Aliur Rahman**

Chairperson, JMC

**Humaiyun Kabir**

Assistant Professor, SOC

**Mahbubur Rahman**

Assistant Professor, TE

**Md. Mazharul Islam**

Joint Registrar (Admission)

**Md. Shaheen Hawlader**

Senior HR Officer

**Tamzid Hossain**

Junior Officer, Student Affairs

**Ms. Tajmeem**

Officer (Admission & Marketing)

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**Prof. Dr. Md. Shahidullah**

Dean (Acting), FASS & Chairperson, English (Co-convener)

**Md Baktiar Alam Bulbul**

Lecturer, GBS (Member Secretary)

**Prof. Dr. Nitai Chandra Sutradhar**

Distinguished Professor & Chairperson, TE

**Prof. Dr. Abul Hossain**

Chairperson, Sociology

**Dr. Afzal Hossain Khan**

Director, Student Affairs

**Dr. Serajum Munira**

Director, CLCS

**Md. Ashiqur Rahman**

Deputy Librarian

**Md. Rasel Kabir**

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**Ms. Monira Shormin**

Assistant Professor, JMC

**Md. Ibrahim Azad**

Lecturer, JMC

**Humyra Mahzabin Khan**

Senior Office, Registrar Office

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**Mr. Md. Saiful Islam**

Joint Registrar (Academic)

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Chairperson, Law

**Dr. Muhammad Abul Hasan**

Associate Professor & Chairperson, ADS

**Dr. Md. Mehedi Hasan**

Proctor & Associate Professor, Law

**Md. Asad Noor**

Assistant Professor, GBS

**Mohammad Khorshed Alam**

Deputy Director, F&A

**Showkat Ara Khanom**

Assistant Professor, GBS

**Mr. Mohammad Tamzid**

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**Shariful Islam**

Assistant Professor, Law

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Medical Officer, MBBS, CCD (BIRDEM) (Co-convener)

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**Mozdahaer Abdul Quader**

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**Md Fahimul Islam Fahim**

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**Mahtab Hossain**

Senior Officer (Multimedia)

**Md. Basher Uddin**

Junior Officer

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**Shariful Islam Sharif**

Assistant Engineer (Electrical)

**Md Fazlay Rabby**

Lab technician, EEE

**Md. Mohi Uddin Mohin**

Lab technician, EEE

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Student, Green University of Bangladesh

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Institutional Quality Assurance Cell



Green University