

ANNUAL REPORT



**LEADING BY
INNOVATION AND RESEARCH**

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING
GREEN UNIVERSITY OF BANGLADESH

2024





EXECUTIVE SUMMARY

The Department of Electrical and Electronic Engineering (EEE) at Green University of Bangladesh (GUB) has firmly established itself as a center of excellence in 2024, demonstrating exceptional progress across academic, research, and community spheres. Building on a strong foundation, the department expanded its academic and professional development activities, including impactful industrial engagements, internships with esteemed organizations such as the Power Development Board (PDB), and strategic alumni feedback initiatives that refined academic delivery. Leadership within the department was further strengthened with the appointment of Dr. Md. Hasan Maruf as Chairperson, bringing renewed vision and momentum. EEE's faculty achieved notable milestones, with Dr. Ahmed Al Mansur's promotion to Professor and his outstanding record of over 50 research publications in 2024, a testament to the department's deep commitment to research excellence. Faculty members Dr. Molla Shahadat Hossain Lipu and M. M. Naushad Ali were honored with the Outstanding Research Award 2024, reflecting the department's role at the forefront of innovation and scholarly achievement. Student life thrived under the dynamic leadership of the EEE Club and the Green Robotics Society (GRS), which, in collaboration with IEEE GUB Student Branches, hosted high-impact seminars, workshops, and national competition participations, solidifying the department's reputation in technical excellence. Continuous Quality Improvement (CQI) initiatives, such as the Workshop on Academic Documentation, reinforced the department's focus on maintaining superior academic standards. With its unwavering dedication to academic distinction, pioneering research, and holistic student development, the Department of Electrical and Electronic Engineering at Green University of Bangladesh is charting an inspiring course towards becoming a national and global leader in sustainable technological advancement.

MESSAGE FROM CHAIRPERSON



Welcome to the Department of Electrical & Electronic Engineering (EEE) at Green University of Bangladesh (GUB)! Since its inception in 2003, the EEE Department has evolved into one of the most dynamic and leading departments at GUB, proudly hosting over 1000 students and 35+ dedicated faculty members. From the very beginning, our mission has been to deliver quality education and foster a vibrant learning environment that nurtures innovation, technical excellence, and ethical responsibility. We are equipped with modern infrastructure, state-of-the-art laboratories, and a thoughtfully designed OBE-based curriculum that aligns with the latest industry trends and global technological advancements. Our curriculum emphasizes four core areas: Power and Energy, Electronics, Telecommunications, and Computer Engineering. To bridge the gap between theory and practice, our students are also engaged in industry attachment programs, gaining hands-on experience and real-world exposure. Our faculty members are at the heart of this growth. They are not only passionate educators but also renowned researchers whose work is recognized globally through publications in prestigious international journals and conferences. They are continuously trained in modern teaching methodologies, ensuring our students receive the best possible guidance and mentorship.

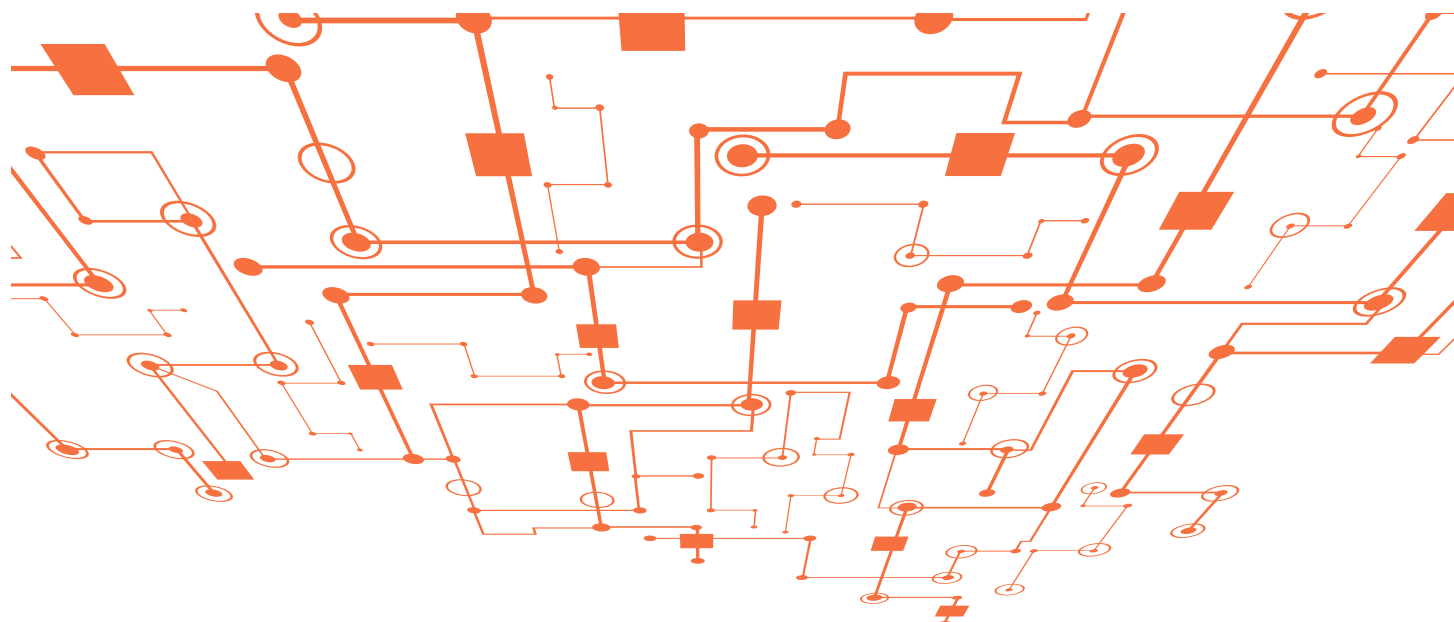
Beyond academics, we take pride in cultivating a holistic educational experience. The EEE Club plays a vital role in organizing a wide range of extra- and co-curricular activities, including seminars, workshops, competitions, industrial tours, and more—encouraging creativity, teamwork, and leadership among our students.

Whether you're a prospective student, a parent, a fellow academic, or simply an interested member of society, I warmly invite you to explore our department through our official website and social media platforms. We are always open to your questions, thoughts, and collaboration.

Come, be a part of the EEE family, and experience the journey of transformation, innovation, and excellence.

Dr. Md. Hasan Maruf
Chairperson, Dept. of EEE
Green University of Bangladesh





RESEARCH
INDUSTRIAL **IEEE PES**
TRAINING **WEBINAR**
DEPARTMENTAL
PROGRAM
WORKSHOP **MENTORSHIP**
SEMINAR **PROGRAM**
CONFERENCE **AWARD**
EEE CLUB

CONTENT

Webinar on “Operation & Control Strategy of Interconnected Microgrid Clusters

January 10, 2024

The IEEE PES, GUB SBC with the collaboration of Dept. of EEE, GUB organized an online webinar on “Operation & Control Strategy of Interconnected Microgrid Clusters” on 10th January, 2024. The keynote speaker for the event was Dr. S.M. Ferdous. He discussed cutting-edge topics related to the operation and control strategy of interconnected microgrid clusters. Professor Dr. ASM Shihavuddin was the chief guest and Associate Professor Dr. Shahadat Hossain Lipu was the session chair. Later, the Chairperson opened the floor for an engaging Q&A session.



Discussion Session on Project and Thesis

January 28, 2024

The webinar named "Discussion Session on Project and Thesis" was organized by the thesis committee of the Department of EEE, GUB on 28 January 2024. The session was enriched by the valuable insights shared by our esteemed Keynote Speaker, Mr. Shahriar Mahmud Kabir, Assistant Professor, Dept. of EEE, who provided invaluable expertise and perspectives on the topic. DR. ASM Shihavuddin, Chairperson and Professor, Dept. of EEE, GUB, for expertly moderating the discussions and ensuring a smooth flow of ideas throughout the webinar. The active participation and engagement from almost 50 students and all attendees contributed to the success of the event, making it an enriching experience for everyone involved.

Alumni Feedback Session on Program Curriculum

January 29, 2024

Alumni Feedback Session on the Program Curriculum of the Department of EEE was organized on 29 January 2024. The Keynote Speaker, Md Hasan Maruf, Assistant Professor, Dept. of EEE, GUB introduced the Alumni Feedback Form to the attendees. It elaborately explained the key points on how to fill out the form. The Special Guest, Dr. ASM Shihavuddin, Chairperson and Professor, Dept. of EEE, GUB, focused on the importance of feedback in our Continuous Quality Improvement (CQI) process.





Graduation Lunch: The Closing Rhythm

January 29, 2024

The Graduation Lunch event, "The Closing Rhythm," was held on January 29, 2024, at Green Café, bringing together the graduating batches 201, 202, and 203 from the EEE Department at Green University for a memorable farewell. The EEE Club organized the event and filled with laughter, nostalgia, and celebration, honoring students and faculty with awards in various categories. Students received recognition for Best

Thesis Group, Best Poster Presenters, Most Creative Student, Best Leader, and Best Athlete. among faculties, Dr. Ahmed Al Mansur and Dr. Ahsanul Alam received the Best Supervisor Award, and Asif Ul Haque was recognized as the Best Advisor. Prof. Dr. ASM Shihavuddin, Chairperson and Professor of Dept. of EEE, GUB, expressed gratitude to the awardees for their dedication and encouraged them to strive for excellence in their future endeavors. The event was beautifully anchored by Rabeya Akter Rabu, Lecturer, Dept. of EEE, GUB, adding warmth to the occasion. The Graduation Lunch was a perfect farewell, allowing students to reflect on their academic journey and cherish lifelong memories.





Fresher's Orientation Spring 2024

February 25, 2024

Prof. Dr. Khawza Iftekhar Uddin Ahmed, honorable vice-chancellor (Acting), Prof. Dr. ASM Shihavuddin, Chairperson, Dept. of EEE, Prof Dr. Md. Nazmus Shakib, Associate Professor, Department of EEE, Prof. Dr. Md. Quamrul Ahsan, Distinguished Professor, Dept. of EEE, faculty members, departmental coordination officers, newly admitted students, and students from different batches were present at the Fresher's Orientation Program for Spring 2024. Following the formal sessions, the freshers had the opportunity to visit the laboratories and participate in robotics fights organized by the Robotics Club. The day concluded with a group photo session, symbolizing the unity within the EEE Green Family.



Annual Picnic 2024

March 3, 2024

The Annual Picnic 2024 of the Department of EEE, Green University of Bangladesh, was held on March 3 at Barnachota Resort. The day began with breakfast at 9:00 AM, followed by a variety of fun activities including drawing contests, cricket, marble races, badminton, and swimming. A hearty lunch and a short sightseeing tour added to the enjoyment. The cultural segment was a highlight, with performances and interactive games like "Guess the Market Rate" and "Guess the Song." Esteemed professors, including Prof. Dr. Quamrul Ahsan and Prof. Dr. Fayzur Rahman, graced the event from the start. Dr. Ahsan delivered an inspiring speech, while Prof. Dr. ASM Shihavuddin, Chairperson of EEE, entertained with a melodious song. Musical performances by M. M. Naushad Ali and Rukshana Parvin added to the festive atmosphere. The event successfully fostered bonding and joy among students and faculty, making it a memorable day for all.





Workshop on Enhancing Academic Documentation

March 6, 2024

The CQI committee, Dept. of EEE, GUB, organized an interactive workshop on enhancing academic documentation for Continuous Quality Improvement (CQI) implementation on March 6, 2024. The session emphasized the importance of structured documentation in improving teaching methodologies, meeting accreditation standards, and fostering institutional growth. Experts shared best practices for organizing academic records, assessments, and reports while introducing innovative tools for streamlining documentation. Faculty, staff, and students actively participated in discussions on overcoming challenges and aligning documentation with CQI goals. The workshop reinforced GUB's commitment to academic excellence and continuous improvement.

Seminar on the Operational Activities of a Capital Market Intermediaries and its instruments

March 18, 2024

The Dept. of EEE, GUB hosted an insightful seminar titled "An Introduction to the Operational Activities of Capital Market Intermediaries & Its Instruments" on March 18, 2024. The event featured expert speakers, including Mr. Md. Arifur Rahman Mian, Mr. Kamal Uddin, and Mr. Mohammad Shamsul Arefin from ICB, who provided valuable insights into the role of capital market intermediaries and financial instruments. Dr. Md. Fayzur Rahman, Professor, Dept. of EEE, graced the event as the Chief Guest, emphasizing the importance of financial literacy for engineers. The seminar was chaired by Dr. ASM Shihavuddin, Chairperson and Professor, Dept. of EEE, ensuring an engaging and interactive session. Attendees gained a comprehensive understanding of capital markets, bridging the gap between engineering and finance, and opening doors to diverse career opportunities.

Industrial Visit to Creative IT Institute

March 10, 2024

Seventy students from the Dept. of EEE have participated in different sessions of this industrial visit. They were accompanied by Mr. Sourav Barua, Lecturer (Sr. level), Dept. of EEE, GUB. The journey started at 8:00 AM from the permanent Campus and reached there at 9:20 AM. The Head of the Admin and HR department presented an introductory welcoming speech to the students. The short video introduction of Creative IT was

displayed to describe their mission and vision to the students, along with their achievements in the IT sector. They also elaborated on the importance of courses such as CCNA, cloud computing, digital marketing, web development, graphics design, and cybersecurity. The students took notes of their learning in a notebook and posed questions to the assigned supervisors of each group.





Iftar Mahfil - 2024

March 28, 2024

The event, held on 28th March in Room No. A-409 and A-302, aimed to foster communal harmony and reflection during the holy month of Ramadan. It provided an opportunity for us to come together, share blessings, and engage in meaningful conversations. We were delighted to have over 200 participants, including distinguished faculty members both from the EEE department and other departments.



Poster Hackathon Season 2 (Express to Impress)

March 29, 2024

The Poster Hackathon season-2 (Express to Impress) event not only celebrated innovation and creativity but also showcased the culmination of months of hard work by our talented students. The Poster Hackathon brought together around 126 EEE Department students who presented their thesis and project work on posters. Their hard work and creativity were evident in the high-quality posters presented. Their work not only reflects your individual achievements but also underscores the collective excellence of our EEE Department.

Inauguration Ceremony of IEEE SB, IEEE CS SBC & IEEE PES SBC GUB

May 17, 2024

The IEEE Student Branch GUB, IEEE CS SBC GUB, and IEEE PES GUB SBC hosted the "Inauguration Ceremony-2024" on May 17, 2024, with distinguished guests, faculty, and over 120 students in attendance. The event featured committee introductions, certificates of appreciation, and insightful speeches on IEEE's impact and future plans. A panel discussion on "Challenges and Prospects of Using ChatGPT and AI in Academia" explored AI's role in education and the job market. A special session on "Advanced LLM in Software Engineering and Research" introduced AI tools and programming techniques. Key speakers, including industry experts and faculty members, shared valuable insights on research, innovation, and IEEE's contributions. The event fostered knowledge-sharing, networking, and motivation for students. The ceremony concluded with a call to action for organizing more technical events and enhancing IEEE's role at GUB.



Seminar on Robot Operating System

May 20, 2024

The Green Robotics Society, in collaboration with IEEE GUB SB, IEEE CS GUB SBC, and IEEE PES GUB SBC, successfully hosted a seminar on "Robot Operating System" on May 20, 2024, at Green University of Bangladesh with over 110 attendees, including faculty and students. Md. Istiac Ahmed welcomed guests, followed by an inaugural speech from Prof. Dr. Mohammad Shorif Uddin, Vice-Chancellor, who emphasized robotics' role in industrial advancements. Keynote speaker

Md. Hafizul Imran conducted a live demonstration of ROS, showcasing autonomous robot navigation, mapping, and obstacle avoidance. The session included interactive discussions and expert insights from faculty members. Dr. Molla Shahadat Hossain Lipu and Prof. Dr. Md. Ahsan Habib Tareq highlighted the significance of robotics in industry and collaboration with tech institutions. The event concluded with a vote of thanks by Dr. Ahmed Al Mansur, appreciation for the speaker, and a call for more robotics-focused seminars at GUB.



Interns' journey at PDB

May 16, 2024

Exciting start to the EEE - Green University interns' journey at PDB! Senior faculties and mentors onboard to guide and inspire, ensuring a rich learning experience. The interns are diving deep into hands-on projects, collaborating with experts in the field, and exploring innovative solutions to pressing energy challenges. With the perfect balance of academic support and industry exposure, this internship is setting the stage for a transformative career path. The combination of practical training and expert guidance promises to equip these future engineers with the skills, knowledge, and confidence they need to excel in the energy sector and beyond. The journey ahead is full of endless possibilities!



Securing first Place In 45th National Science and Technology Fair

June 12, 2024

At the 45th National Science and Technology Fair, which concluded on June 12, 2024, students from the EEE Department, Green University of Bangladesh, representing "Narsingdi Science & Robotics Lab," secured first place among top projects from 495 upazilas across 64 districts. They were also honored as the best young innovators in the country. This achievement follows their previous success at the 44th National Science and Technology Fair, where they won first place in the special group and received the best young innovators award. Their winning project, an AI Unmanned Aerial Vehicle Drone, highlights their exceptional innovation and technical expertise.



LAB RACE

June 06, 2024

The Lab Race Program of the EEE Department, Green University of Bangladesh, engaged students in conducting various lab experiments across eight different labs, fostering hands-on learning and technical proficiency. The event featured a total prize of 10,000 BDT, recognizing the top-performing teams' excellence. Team EEE ELITES emerged as the Champion, comprising Mijanur Rahman, Ebne Saieed Limon, and Shihab Uddin. The 1st Runner-up position was secured by Team Short Circuit, represented by Jahidul Hasan Rony, Shafiun Nahin, and Md. Hasan. Meanwhile, Team BBS, consisting of Md. Naimur Rahman, Md. Miraj Mia and Siam Omor Shanto claimed the 2nd Runner-up spot. The competition successfully encouraged students to enhance their practical skills and teamwork, contributing to a dynamic learning environment within the department.



Faculty Get-together

June 27, 2024

The esteemed faculty of Dept. of EEE, GUB, enjoyed a post-Eid-Al-Adha get-together at Posh Lounge Rooftop, including a heartfelt farewell for Professor Dr. ASM Shihavuddin. The evening was filled with laughter, warm memories, and moments of reflection on his incredible journey with the university. Colleagues and friends shared

stories of their unwavering commitment, dedication to academic excellence, and his guidance that inspired countless students and faculty members alike. We wish him all the best in his future endeavors. His contributions and dedication will be greatly missed, but his legacy will continue to inspire those he leaves behind. As he embarks on new adventures, we remain grateful for his leadership and support throughout the years. Here's to new beginnings and the lasting impact, Professor Dr. Shihavuddin has made at the Green University of Bangladesh.



Congratulations

Dr. Md. Hasan Maruf
for being appointed as the

CHAIRPERSON

Department of EEE
Green University of Bangladesh



Faculty Workshop on BAC Accreditation Standards and Criteria

August 10, 2024

The Department of EEE, Green University of Bangladesh, in collaboration with the IQAC, successfully organized a series of faculty workshops on BAC Accreditation Standards and Criteria. The first workshop was held virtually via Zoom on 31 July 2024, where Md. Istiaq Ahmed served as the keynote speaker and discussed BAC standard practices, faculty teamwork, and SAR chapters. The second session took place on campus on 7 August 2024, featuring Dr. Ahmed Al Mansur, Associate Professor, Dept. of EEE, GUB, as the keynote speaker. The final workshop on BAC report preparation was conducted on 10 August 2024, attended by the department's faculty members and presided over by Mr. Md. Asif Ul Haq, Assistant Professor of EEE and PSAC member, who provided significant insights on accreditation criteria and documentation. Additionally, another successful workshop was organized on 13 August 2024, where Mr. Md. Asif Ul Haq once again presided over the session, offering valuable guidance to the faculty members of the Department of EEE in preparation for applying for BAC accreditation.



Industrial Visit to Ulterior Engineering Ltd.

September 13, 2024



The IEEE Power and Energy Society (PES) chapter organized an industrial tour on September 13, 2024, at Ulterior Engineering Ltd. in Mohakhali, Dhaka. The tour provided valuable hands-on learning opportunities, offering participants a comprehensive view of cutting-edge technologies and processes. Industry experts led interactive presentations, enhancing participants' understanding of engineering practices and industry standards. The event facilitated meaningful networking between students, faculty, and professionals, helping bridge the gap between academia and industry. Observing the daily operations of the company gave participants a practical understanding of real-world problem-solving and management. The tour also inspired students, highlighting potential career paths and emphasizing the importance of continued learning. The IEEE PES chapter thanks Ulterior Engineering Ltd. for their hospitality and educational contribution.

The EEE Club, in collaboration with the Green University Center for International Affairs (GCiA), successfully hosted a webinar titled "Charting Your Academic Journey: Exploring Higher Studies Opportunities in Australia" on September 21, 2024, at 6:30 PM in Zoom platform. The session aimed to guide students and alumni in exploring prospects and pathways for higher education in Australia. The keynote speaker, Mr. Khan Rahmat Ullah, Scientia PhD research scholar at UNSW Sydney, delivered an inspiring talk on university applications, scholarships, and the academic environment in Australia, which was highly appreciated by attendees. The presence of Dr. Ahmed Al Mansur, Associate Professor and Director of GCiA, as the Chief Guest, and Mr. M M Naushad Ali, Assistant Professor and Moderator of the EEE Club, who chaired the session with great expertise adorned the session greatly. The active participation of alumni from Green University added depth to the event, sharing experiences and engaging with current students. The Q&A session following the presentation was particularly interactive, addressing key concerns about studying abroad while fostering meaningful discussions on career opportunities and personal growth.

Seminar on Charting Your Academic Journey: Exploring Higher Studies in Australia

September 21, 2024



Freshers Orientation Fall 2024

September 17, 2024

The Department of Electrical and Electronic Engineering (EEE), in collaboration with the EEE Club, hosted a successful Freshers' Orientation Program for Fall 2024 on September 17, warmly welcoming the new batch of students. The event featured inspiring speeches from Prof. Dr. Quamrul Ahsan, Dr. Molla Shahadad Hossain Lipu, and other faculty members, along with engaging activities like a Kahoot game and gift distribution. Distinguished guests, including Prof. Dr. Md. Saiful Azad, Dean of Science & Engineering, and Prof. Dr. Khawza Iftekhar Uddin Ahmed, Pro-Vice Chancellor, offered motivational guidance for the students' academic journey. The active participation of faculty, staff, and students made the event a memorable and inspiring start for the freshers.





Industrial Training of Fall 2024 Semester

September 29 – October 12, 2024



The Bangladesh Power Development Board (BPDB) organized a series of industrial training sessions for Electrical and Electronic Engineering (EEE) students from Green University of Bangladesh (GUB) from September 29 to October 12, 2024. The training began at the BPDB Directorate of Training & Career Development, followed by a session at BPDB headquarters on electrical faults and protection systems. On October 1, students visited Ghorashal Power Plant, followed by training at Shiddirgonj Power Station on October 2 and Kanchan Purbachal Power Generation Ltd. on October 3 and 5. Training continued at the Central Equipment Repairing Shop (CERS), Tongi, on October 6 and 7. On October 8, students attended

a session at Spectra Solar Power Plant, followed by a visit to Meghnaghat Power Limited, a 450 MW Combined Cycle Power Plant, on October 9. On October 10, students gained insights into grid operations at the National Load Dispatch Centre (NLDC). Finally, on October 12, they explored the Tongi 80MW Gas Turbine Power Plant under the guidance of faculty member Md. Ashaduzzaman Niloy. These training programs bridged the gap between academic knowledge and industrial applications, enhancing students' practical understanding of power systems. The initiative provided invaluable exposure to real-world energy sector operations, reinforcing their theoretical foundations with hands-on learning.



Seminar on Potential Career Path in Solar PV Energy Technologies

October 03, 2024

The seminar on "Potential Career Paths in Solar PV Energy Technologies" was recently held at Green University of Bangladesh (GUB), organized by the GUB EEE Club in collaboration with GCiA (Green University Center for International Affairs) and IEEE PES. The seminar began with a welcome speech by Md. Ashaduzzaman Niloy, Lecturer, EEE, followed by an inspiring address from Prof. Dr. Md. Saiful Azad, Dean of the Faculty of Science and Engineering, emphasizing the role of Electrical & Electronic Engineering in innovation and sustainability. Prof. Dr. Md. Quamrul Ahsan, the session chair, introduced the keynote speaker, Prof. Dr. Nowshad Amin (Professor, AIUB), highlighting his groundbreaking contributions to solar photovoltaic technologies. Prof. Amin delivered a transformative keynote session, engaging the audience with insights into career and research opportunities in the solar PV sector. The interactive Q&A session further enriched the discussion, with Prof. Amin providing thoughtful responses to participants' queries. The event concluded with a token of appreciation presented to Prof. Amin by Pro-Vice Chancellor Prof. Dr. Khawza Iftekhar Uddin Ahmed. Distinguished guests, including Dr. Molla Shahadat Hossain Lipu, Dr. Ahmed Al Mansur, and Dr. Md. Hasan Maruf, also graced the occasion, contributing to its success. The seminar left attendees inspired and motivated, marking a memorable event in the journey of renewable energy exploration at GUB.



Poster Hackathon Season-3

October 18, 2024

Poster hackathon Season-3 (Phase II), held on October 18, was a tremendous success, with 115 students showcasing 33 innovative projects. The Green Auditorium was filled with excitement as participants presented their research and

creative ideas in a vibrant atmosphere. Their dedication, passion, and ingenuity made the event a remarkable celebration of knowledge and innovation. The enthusiastic participation turned this flagship event into a truly memorable experience.



Participation in 4th International RoboTech Olympiad 2024

October 9, 2024

Green Robotics Society (GRS) participated in the 4th International Robo Tech Olympiad, organized by Daffodil International University and Robo Tech Valley. GRS fielded four dynamic teams: Green Warrior, Green Nexus, Green Bionic, and Green Quantum, each showcasing their talents and innovation across three exciting competitions: Robo Soccer, Drone Race, and Line following Robot. The event provided a valuable opportunity for GRS members to compete on an international stage, demonstrating their skills in robotics and automation. This competition was a remarkable experience, as GRS teams contributed their expertise and creativity towards the vision of building Smart Cities of Tomorrow. Their dedication and innovation were evident throughout the event, and GRS extends its heartfelt appreciation to all participants for their hard work and commitment. The Olympiad not only fostered a spirit of healthy competition but also underscored GRS's commitment to pushing the boundaries of technological advancement and excellence in robotics.



GUB Annual Research Publication Award Ceremony 2024

October 23, 2024

Congratulations to our Research Excellence Award Winners of 2024! We are honored to recognize the outstanding achievements of our esteemed faculty members for their remarkable research contributions, dedication to innovation, and commitment to academic excellence. Their groundbreaking work continues to push the boundaries of knowledge, inspiring both their peers and students. Special congratulations to Dr. Ahmed Al Mansur, Dr. Molla Shahadat Hossain Lipu, Dr. Md. Ahsanul Alam, Dr. Md. Hasan Maruf (Associate Professors), D. M. Saaduzzaman, M M Naushad Ali, Sourav Barua (Assistant Professors), and Umme Syda Akther (Lecturer), whose research efforts have significantly contributed to their respective fields. A special recognition goes

to Dr. Molla Shahadat Hossain Lipu and M M Naushad Ali from the Department of EEE, GUB, for receiving the Outstanding Research Award 2024, honoring their exceptional contributions to research and innovation. Their dedication to advancing knowledge and driving impactful discoveries serves as an inspiration to the academic community. We extend our heartfelt gratitude for their unwavering commitment to excellence and innovation. This prestigious recognition is proudly presented by the Center for Research Innovation and Transformation (CRIT) at the Annual Research Publication Award Ceremony 2024, a platform that continues to celebrate and promote excellence in academic research.

Research Excellence Award

Center for Research Innovation and Transformation (CRIT)



Dr. Molla Shahadat Hossain Lipu
Associate Professor
Dept. of EEE, GUB



Dr. Ahsanul Alam
Associate Professor
Dept. of EEE, GUB



Dr. Ahmed Al Mansur
Associate Professor
Dept. of EEE, GUB



M M Naushad Ali
Assistant Professor
Dept. of EEE, GUB



Sourav Barua
Assistant Professor
Dept. of EEE, GUB

EEE-GREEN



2024
Congratulations
Research Award



Dr. Md. Hasan Maruf
Associate Professor



Dr. Molla Shahadat Hossain Lipu
Associate Professor



Dr. Ahmed Al Mansur
Associate Professor



D. M. Saaduzzaman
Assistant Professor

Center for Research Innovation and Transformation (CRIT)

EEE-GREEN



2024
Congratulations
Outstanding Research Award



Dr. Molla Shahadat Hossain Lipu
Associate Professor
Dept. of EEE, GUB



M M Naushad Ali
Assistant Professor
Dept. of EEE, GUB

EEE-GREEN

Participation in EWU National RoboFest 2024

November 7, 2024

Green Robotics Society (GRS) shined at the EWU National RoboFest, where two of its remarkable teams participated in the highly competitive Robo Soccer segment. Representing GRS, Green Warrior, Green Nexus, and Green Bionic showcased their hard work, skills, and passion for robotics as they competed with some of the best minds in the country. The event was an incredible opportunity for GRS members to demonstrate their talents in robotics and automation.



Chairperson Meets with the 242 batch students

November 13, 2024

The EEE Department's mentors successfully conducted the program "Chairperson Meets with the 242 Batch Students of the EEE Department" on November 13, 2024, at 9:00 a.m. in room A-302. The session, attended by the department's chairperson, Dr. Md Hasan Maruf, and faculty members, facilitated an open exchange of ideas between students and the department's leadership. The chairperson's address focused on understanding the students' academic journey up to the mid-term exams and identifying any challenges faced. Students' concerns, including academic and extracurricular matters, received detailed responses from the faculty, with assurances of prompt resolutions.





Your Gateway to Higher Education in USA

November 17, 2024

The EEE Department's webinar, "Your Gateway to Higher Education in the US," held on November 17, 2024, at 11:00 AM, provided invaluable guidance for aspiring students and faculty members seeking advanced academic opportunities in the United States. Assistant Professor D. M. Saaduz-zaman chaired the session, ensuring a seamless flow of discussions, while the department's chairperson, Dr. Md. Hasan Maruf, graced the event as the Chief Guest, adding inspiration and significance. Three former faculty members shared their expertise: Md. Ashiqur Rahman (University of Hawaii at Manoa) covered the application process, Rukhshana Parvin (University of New Mexico) discussed required exams and documentation, and Md. Saklain Morshed (The Ohio State University) provided insights on contacting professors and preparing key application materials.



Seminar on The Impact of Electric Vehicle Charging on Grid: Challenges and Solutions

November 25, 2024

The seminar on "The Impact of Electric Vehicle Charging on Grid" was held on November 25th, 2024, in Room A302. Dr. Tarek Aziz, Professor, Dept. of GBS, GUB, the keynote speaker, discussed the challenges and solutions of electric vehicle charging's impact on the power grid. Distinguished guests included Professor Dr. Khawza Iftekhhar Uddin Ahmed, Pro-Vice Chancellor, GUB, Dr. Saiful Azad, Professor, Dept. of CSE, Dr. Molla Shahadat Hossain Lipu, Dr. Md. Hasan Maruf, Associate Professor, Dept. of EEE, GUB, who chaired the event. Faculty members and students attended the seminar, contributing to insightful discussions. The event succeeded thanks to the attendees, speakers, and organizers. The IEEE PES day quiz and poster presentation competition winners were also announced.



Fusion Fest 2024: An Exclusive Celebration of Fun, Creativity and Togetherness & Sky Watch

November 27, 2024

The "Fusion Fest 2024," organized by the Green University EEE Club, took place on November 27, 2024, in the Multipurpose Auditorium. The event successfully united students and faculty members, creating a festive atmosphere full of fun and creativity. It began with a Quran recitation by Abdullah Al Mamun, followed by a welcome speech from Prof. Dr. Quamrul Ahsan, who emphasized the event's role in fostering camaraderie. Honorable chief guest Prof. Dr. Mohammad Shorif Uddin and special guests, including Prof. Dr. Khawza Iftekhar Uddin Ahmed and Prof. Dr. Md. Fayzur Rahman, shared their thoughts on the significance of such events. The event featured a "3 Minutes Presentation" segment, where both students and faculty showcased their innovative ideas, judged by Prof. Dr. Helal Uddin Ahmed. A thrilling game of Pictionary also engaged participants, with faculty members competing alongside

students. The gaming segment recognized outstanding teams, including those led by Prof. Dr. Khawza Iftekhar Uddin Ahmed. Prof. Dr. Md. Saiful Azad and Dr. Md. Fayzur Rahman praised the event's creativity and teamwork. Several awards were given, including prizes for the Lab Race winners and special crests for young innovators. The cultural performances in the second segment captivated the audience, with music, dance, and band performances by students. Dr. Hasan Maruf, Chairperson of the Department of EEE, expressed his satisfaction with the event and thanked all involved. The event ended with a memorable music performance by faculty members and students, embodying the spirit of Fusion Fest. The EEE Club hopes to continue organizing such engaging and entertaining events in the future, further strengthening the GUB community.



Seminar on Electrical System Design and Drafting

November 29, 2024



The EEE Department's Mentorship Program organized a virtual meeting on November 22, 2024, to guide newly admitted students through the pre-registration process for the Spring 2025 semester. The session introduced first-year courses, section assignments, and a step-by-step demonstration of the pre-registration process on the student portal. Mentors introduced the new academic advisors, explaining their roles in guiding students and providing an overview of the university's open credit system. A Q&A session allowed students to clarify concerns, with mentors addressing portal-related issues and advising on technical concerns. The session effectively prepared freshers for the upcoming semester, ensuring a smooth academic transition.

Webinar on Advancing Solar PV System Innovation and Development

December 2, 2024



The webinar titled “Advancing Solar Photovoltaic System Innovation and Development: Malaysia's Journey and UMPSA's Experience” was successfully held on December 2, 2024, at 02:00 PM, providing invaluable technical insights on achieving Sustainable Development Goal 7. Dr. Ahmed Al Mansur, Associate Professor, Department of EEE, Green University of Bangladesh, chaired the session, ensuring a smooth and engaging discussion. Dr. Molla Shahadat Hossain Lipu, Associate Professor and Director of CRIT, Green University, graced the event as the Chief Guest, inspiring attendees with his presence. Ts. Dr. Mohd Shawal Bin Jadin, Senior Lecturer at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), delivered an insightful keynote on cutting-edge Solar Photovoltaic research and development. The session covered crucial topics such as efficient solar power harnessing, on-grid and off-grid PV applications, economic challenges, and the hybridization of solar with agriculture (agri-voltaic systems). Faculty members and students actively participated in discussions, gaining actionable knowledge on sustainable energy solutions. The webinar's success reflects the importance of collaborative learning in driving innovation and sustainability.

The "Effective Course File Management: Best Practices and Standards for OBE" event, organized by the CQI Committee of the Department of EEE, was held on December 12, 2024. The session focused on key strategies for managing course files within the framework of Outcome-Based Education (OBE). Attendees gained valuable insights into effective course file practices and standards. We express our gratitude to the participants, speakers, and organizers for their contributions to the event's success. Your enthusiasm and engagement were instrumental in achieving the event's goals. We hope the knowledge shared will benefit you in your academic and professional journeys.

Webinar on Effective File Management: Best Practices and Standards for OBE

December 12, 2024



Outreach Program on Solar Panel Installation for local Communities

December 19, 2024



The "Hands-On Training Program on the Installation of Solar Panels for Rural Areas" was successfully held on Thursday, December 19, 2024, at Rupshi New Model School & College, Narayan-ganj. This interactive program equipped participants with practical knowledge and skills to harness solar energy, aligning with Sustainable Development Goal 7. The training covered solar panel installation techniques, off-grid solar solutions, and cost feasibility analysis for rural applications. A quiz competition was organized to engage students, with winners receiving exciting

prizes for their enthusiasm and understanding of solar technology. We extend our heartfelt gratitude to the facilitators, participants, and supporting team members for making this initiative a grand success. This program serves as a stepping stone toward achieving a carbon-free environment and ensuring sustainable energy access for all. We look forward to organizing similar impactful programs to foster knowledge and skill-building for students, faculty, and the wider community.

MENTORSHIP PROGRAM

2024

New Journey with EEE Green

August 13, 2024

The Dept. of EEE successfully organized the program titled "New Journey with EEE Green" for first-semester students (EEE 242 Batch) on August 13, 2024, via Zoom. Md. Abdullah Al Oafi Himon, Mentor Moderator, delivered an inspiring speech to kick off the event. Dr. Md. Hasan Maruf, Chairperson of the Dept. of EEE, GUB, shared valuable insights, while special guest Md. Najmul Huda Bijoy, Lecturer, EEE, GUB, told an inspirational story about perseverance despite failure, encouraging confidence and persistence. The session concluded with an engaging Q&A, where participants interacted with Md. Najmul Huda Bijoy.

Workshop on PowerPoint Slide Making

August 20, 2024

A 2-day long workshop on "PowerPoint Slide Making" was successfully organized by the Mentorship Program of the EEE Department. The workshop on Day 01 was focused on basic level understanding of few basic contents of MS PowerPoint tools. On the Day 02, some advanced features such as- Slide Design Principle, Incorporating Visuals, Transitions & Animation and Presentation Skill were covered. The workshop was well-received by the students who left with a stronger understanding of how to create impactful PowerPoint presentations that could be used in their academic work, future careers, and various extracurricular activities.

Session on Introduction to University Resources

September 26, 2024

The EEE Department successfully hosted a virtual session titled "Introduction to University Resources" on September 26, 2024, via ZOOM to guide newly admitted students. The program began with a warm welcome and introductions to key university figures, including the Vice Chancellor and the Chairperson of the EEE Department. Students were introduced to the GUB Student Profile for accessing class schedules, results, and bill history, as well as the university's official website for notices, academic resources, and departmental information. Mentors provided insights into IT and library services, explaining how to borrow books, access the e-library, and utilize IT resources for academic growth. Transportation facilities were detailed, covering bus routes, schedules, and the OBhai VTS Tracker system, which enables real-time bus tracking for efficient commutes. The session also focused on campus mannerism, encouraging students to maintain cleanliness, follow the dress code, and uphold professionalism. Throughout the meeting, mentors engaged with students through a friendly Q&A session, addressing concerns and providing clear guidance. The program concluded with overwhelmingly positive feedback from attendees, who found the session highly beneficial for navigating university life.



Session on Extracurricular Involvement: Club Activities

October 3, 2024



The Mentorship Program of the Department of EEE, Green University of Bangladesh, organized an engaging session titled "Study Hacks: Setting Academics and Personal Goals" on December 11, 2024, at 9 AM. Nearly 36 freshers attended the onsite session, which aimed to guide them in achieving academic excellence while fostering personal growth. Mentors provided clarity on the grading and marking systems for theory and lab courses, along with practical study hacks such as effective scheduling, note-taking, active questioning, and peer discussions. They emphasized breaking down large tasks, prioritizing productivity, and maintaining a structured routine to enhance learning. Beyond academics, the session explored career opportunities in the power and energy sectors, covering both government and private domains. Additionally, mentors stressed the importance of a healthy lifestyle, adequate sleep, and a balanced study approach for long-term success. By encouraging students to set clear academic and personal goals, the session empowered them to enhance performance and achieve holistic growth.

The Mentorship Program of the EEE Department successfully hosted an online session titled "Extracurricular Involvement: Club Activities" on October 3, 2024, attended by over 58 students from Batch 242 and representatives from 10 university clubs and centers. The program aimed to introduce freshmen to the university's vibrant club culture and its opportunities for personal and professional growth. Club leaders and mentors showcased the activities and contributions of key organizations, such as the IEEE PES GUB Student Branch Chapter, Green Robotics Society, Debating Club, and Leo Club, highlighting membership benefits, achievements, and participation processes. Other clubs like the Sports, Photographic, and Cultural Clubs shared their exciting initiatives, while the Green University Language Center emphasized its diverse language courses and NAT test opportunities. The Center of Excellence for Teaching and Learning (CETL) also presented its resources, including teacher and student training programs like GIFT and DFT, which enhance academic and career success. The interactive session concluded with participants engaging in Q&A sessions, providing clarity and inspiration to explore extracurricular opportunities. This event effectively introduced the freshers to the university's dynamic extracurricular landscape.

Discussion on Study Hacks

December 11, 2024





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