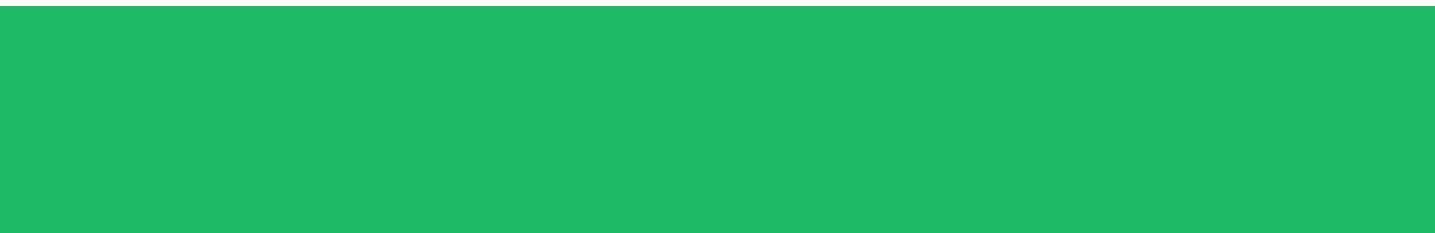


# ANNUAL REPORT 2021



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## CONTENTS

### Overview of the Department:

Introduction.....	4
Goals of the Department .....	4
Vision Statement.....	5
Mission Statement.....	5
Core Values .....	5
Tagline .....	5

### Conferences, Seminars, and Workshops organized by the Department:

ICTD Innovation Fund Received By EEE Department .....	6
Faculty Friendly T20 Cricket Match .....	7
Meet The Department for Spring 2021.....	8
Webinar on Deep Learning and Image Processing Techniques .....	12
Webinar on Optimization, Ai and MI for Power System .....	14
Battle of Brains-Series Edition: The Biggest Online Quiz Event of This Year.....	16
Fresher's orientation program of dept. Of eee – summer 2021.....	19
Meet The Department for Summer 2021 .....	22
Webinar on 'Compact antennas for wireless communication' .....	23
Webinar on "Matlab in advanced EEE study" .....	24
Fresher's Orientation Program of Dept. of EEE – Fall 2021.....	25
The Library Orientation Program .....	27
Workshop on Powerpoint Slide Making .....	29
Pitha Utshab EEE Family .....	31
Discussions between Class Representatives and Chairperson of the Department.....	33

### EEE Club Activities:

The Fresher's Orientation Program – Spring-2021.....	36
Workshop on Presentation Skill Development .....	38
EEE GREEN Leadership Award 2021.....	40

Workshop on Effective CV writing and Interview.....	41
Workshop on introduction to Latex .....	43
EEE Day – Beyond the Virtual – Day One .....	44
EEE Day – Beyond the Virtual – Day Two .....	49
Pitha Utshab by EEE Club .....	54
 <b>Awards and Achievements:</b> .....	 57
 <b>Research Publications:</b> .....	 63

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*Overview of the Department*

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## 1.1 Introduction

The EEE Department is one of the largest departments of the Green University of Bangladesh (GUB) and started its journey from the beginning of this university in 2003. The department offers world-class education to creative young people in order to provide our community with ongoing encouragement, recognizing their full potential. The significant contributions to society have made the department an attractive technological center to the professional and academic personnel. For the high quality real-life orientated education system, admission in this department is a dream to the prospective undergraduate students.

The Bachelor of Science in Electrical and Electronic Engineering (EEE) program is accredited by professional bodies such as UGC (University Grant Commission) and IEB (The Institute of Engineers Bangladesh). The EEE Department has various modern laboratories equipped with state-of-the-art equipment, training kits, measuring instruments, and simulation software. We have well-qualified faculty members who were graduated from BUET, RUET, KUET, IUT, DU, JU, and other foreign universities dedicated and committed to our students performing regular active teaching, research activities, consultancy, collaborative research work, curricula, and laboratory developments of the university, etc. Our graduates are serving with a good reputation in many governments, semi-government, non-government organizations, multi-national companies, and educational institutions including universities within the country and abroad. We have EEE Club through which students' untapped talents and potentials are explored by conducting various extra- and co-curricular activities, such as, industry visit, seminar, workshop, project fair, quiz contest, etc.

## 1.2 Goals of the Department

The goals of the Department of Electrical and Electronic Engineering are as follows:

- To prepare graduates for employment in various electrical engineering-related areas and for the pursuit of advanced degrees in EEE or allied field by educating them in the fundamental concepts, knowledge, and laboratory/field techniques and skills of Electrical Engineering.
- To generate competencies of graduates in generating, disseminating, and preserving knowledge and to working with others to bring this knowledge to bear on the world's greatest challenges.
- By melding rigorous analytical thinking among graduates within a liberal context, the department will prepare the next generation of ethical, engaged, visionary, and innovative leaders.
- The department will catalyze new opportunities to enable an expanded campus, growing enrollment, and an increasing array of local and international partnerships and programs.

## 1.3 Vision Statement

The Department of Electrical and Electronic Engineering of the Green University of Bangladesh envisions to become an internationally reputed department through the

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transformative impact on society by creating a culture of outcome-based education, cutting-edge research, lifelong learning, and continuous innovation.

### **1.4 Mission Statement**

The mission of the EEE Department of GUB is to prepare graduates for rigorous analytical thinking within a liberal context to make them ethical, engaged in lifelong learning, visionary and innovative leaders of the next generation.

### **1.5 Core Values**

We believe, we practice, and we promote

- Academic Excellence
- Innovation and Lifelong Learning
- Integrity and Professional Ethics
- Social Responsibility and Leadership
- Inclusiveness
- Freedom of Thoughts and Expression
- Green Thinking and Living

### **1.6 Tagline**

“Leading by Innovation and Research”

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***Conferences, Seminars, and Workshops organized by the  
Department:***

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**ICTD Innovation Fund Received By EEE Department**

**Date of the event:** 19<sup>th</sup> January, 2021

**Short Description:**

Our research proposal is accepted for the innovation fund from Information and Communication Technology Division (ICTD) for the year 2020-21. This is an honor for the Green University of Bangladesh. Because this year only GUB got the Innovation fund as a private university.

**Project Title:** ‘Maximization of solar array output power using module rearrangement techniques’

**Amount:** BDT 10Lac for 2 years.

The research team members are:

1. Dr. Ahmed Al Mansur, Associate Professor, Dept of EEE, GUB (Principal Investigator)
2. Mohammad Asif ul Haq, Lecturer, Dept of EEE, GUB
3. Md. Hasan Maruf, Assistant Professor, Dept of EEE, GUB
4. Dr. ASM Shihavuddin, Chairperson, Dept of EEE, GUB
5. Md. Imamul Islam, Research Assistant, Dept of EEE, GUB

We very thank full to our mentor Dr. ASM Shihavuddin Sir, Chairperson, Dept of EEE, GUB. Under his excellent guidance, we are moving towards quality research work. Special thanks to Honorable Pro-Vice-Chancellor, Prof. Dr. Md. Abdur Razzaque, for his constant encouragement, to apply for ICTD Research Grant. Sincere thanks to honorable Vice-Chancellor, Prof Dr. Md. Golam Samdani Fakir for introducing research culture by providing the Research Grant for the faculty members of GUB regularly. We also thank full to our respected treasurer, Prof. Dr. Md. Fayzur Rahman, Former Chairperson, Dept. of EEE, for encouraged us to publish research papers regularly.

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## **Faculty Friendly T20 Cricket Match**

**Date of the event:** 1<sup>st</sup> February, 2021

**Chief Guest: The Honorable Vice-Chancellor Prof. Dr. Md. Golam Samdani Fakir**

### **Short Description:**

A Faculty Friendly T20 Cricket Match was held on 1st February 2021 at our Green Permanent campus which is organized by the Faculty of Science and Engineering. The faculties from EEE Dept. led by Chairperson Dr. ASM Shihavuddin faces the faculties from the CSE Dept. which was led by our chairperson of the CSE Dept. Dr Md. Saiful Azad. This match was inaugurated by the Chief Guest Dr. Md. Golam Samdani Fakir, honorable Vice Chancellor, GUB, and by the other special guests Dr. Md. Abdur Razzaque (Pro-Vice Chancellor, GUB), Dr. Md Fayzur Rahman (Treasurer, GUB), Md Saiful Islam (Registrar, GUB). CSE Dept. won the toss and chose to field first. The EEE Dept. starts the match at a slow pace and they are restricted to score not more than 87 runs. Then the drama started and the CSE Dept. also scored 86 in 19.5 overs. It would take 2 runs to win in 1 ball and CSE Dept. was able to take 1 run in the last ball. The game ended as a tie and the prize-giving ceremony was held after the ending among all the participants.

### **Some Photographs:**





## Meet the Department for Spring-2021

**Date of the event:** 15<sup>th</sup> February, 2021

### **Short Description:**

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Department of Electrical and Electronic Engineering of Green University of Bangladesh (GUB) has successfully organized the virtual “Meet the Department” program for spring 2021. Dr. ASM Shihavuddin (Chairperson of Department of EEE), Prof. Dr. Quamrul Ahsan (Distinguished Professor of EEE department), Mr. Redwan Ferdous (Country Representative, World Robot Olympiad (WRO) in BD), Mr. Md. Mazharul Islam (Deputy Registrar), faculty members, current students, prospective new students and their guardians took part in the program. The Chairperson of the Department of EEE, Dr. ASM Shihavuddin, inaugurated the meeting with his welcome speech focusing on the research achievement, Job Success Rate, facilities and resources of the department. Prof. Dr. Quamrul Ahsan, distinguished Professor of EEE department shared his inspiring thoughts regarding the future of the department. Dr. Ahmed Al Mansur, associate Professor, Dept. of EEE briefly described the lab and research facilities of EEE department, while Mr. Khan Rahmat Ullah, former Assistant Professor, talked about Job prospects of EEE graduates. Mr. Redwan Ferdous, Country Representative (BD), World Robot Olympiad (WRO) presented his valuable ideas on Robotics and IoT and job prospects of EEE graduates. Md. Masum Hossain briefly explained the importance and opportunities of higher studies of the respective department. Mr. Md. Mazharul Islam, Deputy Registrar of GUB explained the admission process, waivers, and different scholarship schemes of the university.

### Some Photographs:

**MEET THE**  
**Department of EEE**

**For University Admission Aspirants and their Guardians**

**JOIN WITH US**

**LIVE** **15 TH FEB, 2021 MONDAY** **6:00 PM**

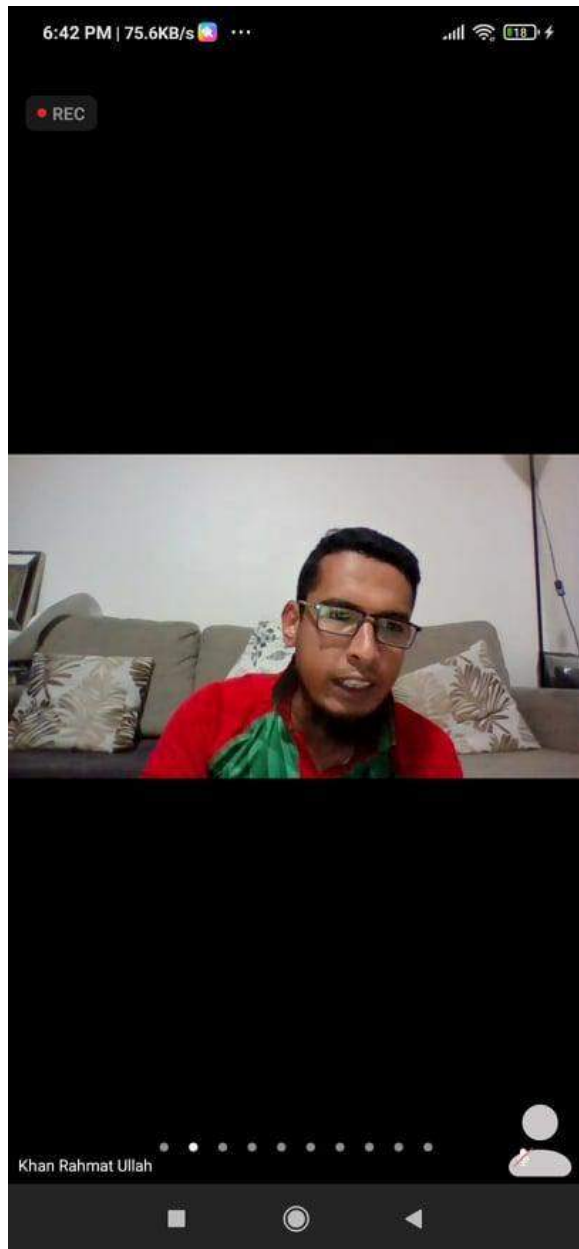
**BSc in EEE**  
(Regular/Weekend) Program Info

**Talk to the CHAIRPERSON, Faculties, Admission Officials & Students.**

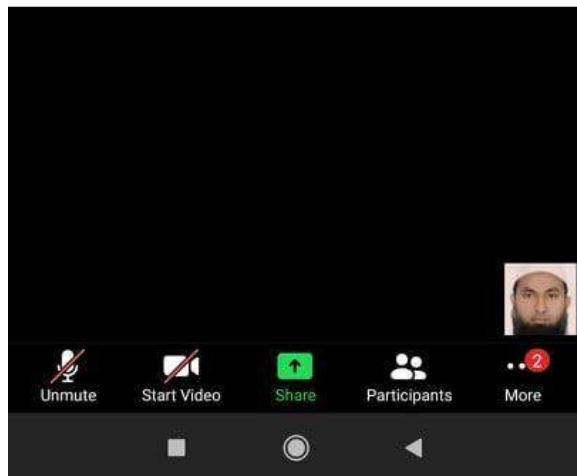
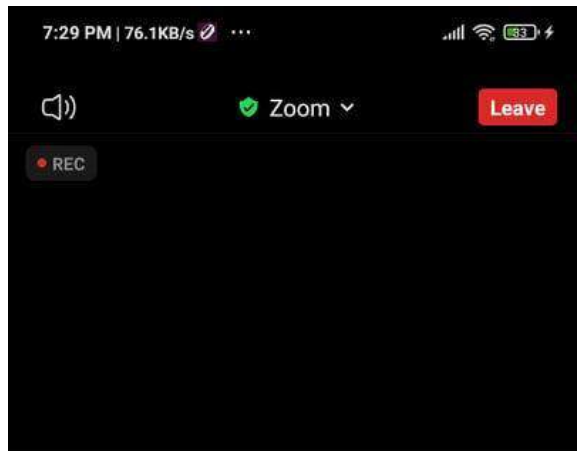
63627216907 **ZOOM**

[www.eee.green.edu.bd](http://www.eee.green.edu.bd)









## **Webinar on Deep Learning and Image Processing Techniques**

**Date of the event:** 5<sup>th</sup> March, 2021

**Chief Guest: The Honorable Distinguished Professor Dr. Md. Quamrul Ahsan**

### **Short Description:**

The IEEE Power and Energy Society Students Branch Chapter of Green University of Bangladesh and Green University EEE Club(Permanent Campus) successfully completed a unique webinar on deep learning, image processing techniques and its application titled “Can We Create Artificial Intelligence?” on 5th March 2021(Friday) from 6.30 Pm to 8.30 PM.

We had in total 170+ registered participants from different University like DU, NSU, DUET, GUB, AUST, SUST, IUBAT, HMDSTU, etc. and we got response from different country as well like Bangladesh, India, Mauritius, Nigeria, Philippines.

As the Keynote Speaker, Dr. ASM Shihavuddin, Chairperson, Department of Electrical and Electronic Engineering, GUB has enriched the seminar. Prof. Dr. Md. Quamrul Ahsan graced the event as the Chief Guest and Dr. Md. Ahsanul Alam, Associate Professor, Department of Electrical and Electronic Engineering, GUB was the session chair of this technical session.

The Honorable Session Chair, Dr. Md. Ahsanul Alam opened the program by pointing the webinar topic as the unique and significant one as well as expressing gratitude toward the speaker, presented guests, faculty members, organizers, and all the participants. Then he briefly described the webinar’s topic and introduced the keynote speaker’s expertise in this particular field as well as his professional life.

In the next, Keynote Speaker, Dr. ASM Shihavuddin started his technical talk about how with advances in deep learning technologies, one of the challenges researchers face is the lack of datasets. With generative adversarial networks, we can synthesize new dataset learning from smaller examples. Generating new images is true testing of a machine learning algorithm. In that session, he was going through some of the basics of deep learning and demonstrating state-of-the-art methods related to GAN for image augmentation.

Then we had a wonderful interactive question answering session with the keynote speaker. In that segment, he also demonstrates the application of AI and Machine Learning in Power systems and gave some tips and suggestions to beginners.

Lastly, The Honorable Chief Guest, Prof. Dr. Md. Quamrul Ahsan gave his valuable speech on modern technology and its impact on our life. He appreciated the keynote speaker for this

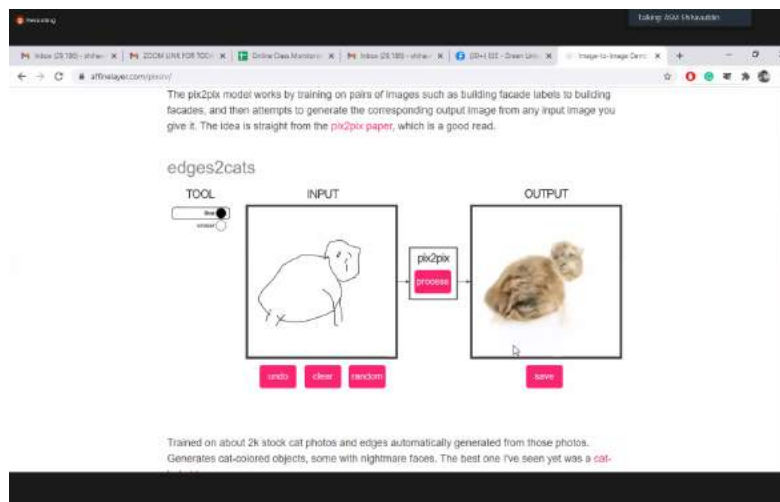


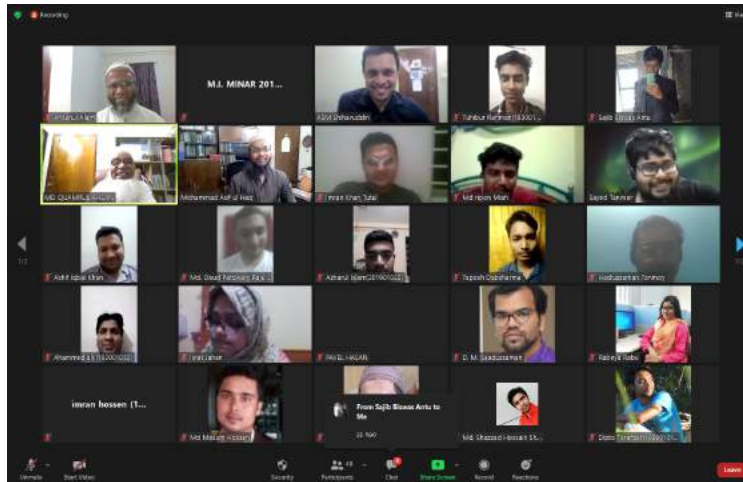
amazing image augmentation methodology. He also appreciated the organizers for arranging such webinars and inspired us to do more in the future as well.

Then, we had a tremendous online photo session with all participants with their cameras on.

Lastly, with the permission of the Session Chair, the program was ended successfully.

### **Some Photographs:**





## Webinar on Optimization, Ai and ML for Power System

**Date of the event:** 17<sup>th</sup> April, 2021

**Chief Guest: The Honorable Pro-Vice Chancellor Prof. Dr. Md Abdur Razzaque**

### Short Description:

As a part of IEEE PES Day 2021 celebration, the IEEE PES Students Branch Chapter and IEEE Students Branch at Green University of Bangladesh jointly organized a webinar on emerging technologies of power system titled “Application of Machine Learning, AI and Optimization Tools in Power System”

The session started with a welcoming speech from Dr. ASM Shihavuddin, Chairperson, Department of EEE, Green University of Bangladesh

The First Keynote speaker was Alireza Soroudi, Ph.D., SMIEEE, Assistant Professor, School of Electrical & Electronic Engineering, University College Dublin, Dublin, Ireland

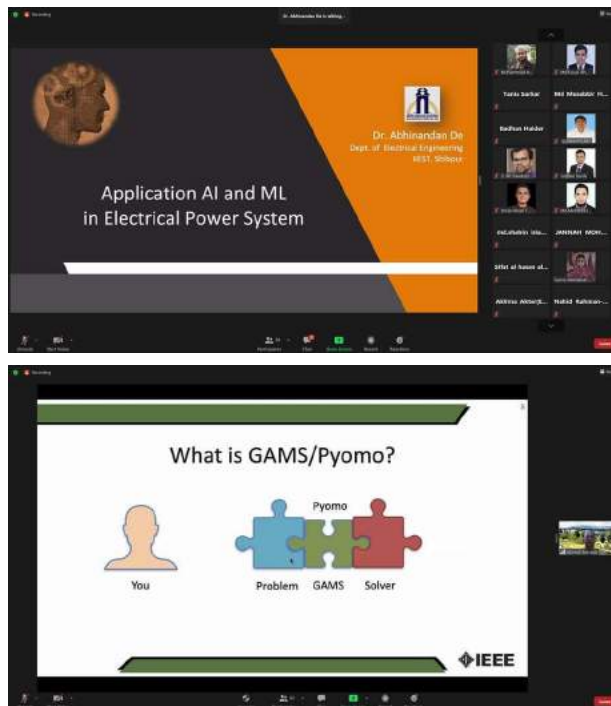
He demonstrates how the optimal decision-making is a key part of any engineering problem and the optimization tools can be used to solve various power system operation and planning optimization problems. His talk provided the audience with a comprehensive overview of the capabilities of open source and commercial (GAMS/Python) tools in solving basic/advanced power system optimization problems. It was suitable for dedicated and general audiences including power system professionals as well as researchers and developers from the energy sector and electrical power engineering community and will be helpful to undergraduate and graduate students

Seconds Keynote Speaker was Prof.Dr. Abhinandan De, Associate Professor, Department of Electrical Engineering, Indian Institute of Engineering Science and Technology, Shibpur. He describes the very basics of AI and Machine Learning and their various application in power

systems. He also demonstrates how AI techniques play a prominent role in power system management and control. He also described some algorithms of artificial neural networks and how genetic algorithms-researchers have applied almost every form of AI tool in at least prototype form to one or more problem areas in the power industry, and new practical applications of AI appear with increasing frequency. He described the power system problems that are likely candidates for AI techniques, and the techniques that have been used on those problems.

Then with a closing speech from chief Guest Prof. Dr. Md Abdur Razzaque, the session was ended successfully. He also showed his kind gratitude to keynote speakers, faculty members, audiences, organizers.

### Some Photographs:

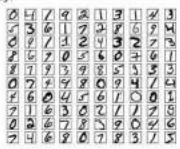


### Learning through examples

Neural networks would approach the problem of recognizing handwritten digits 50-1/92 in a different way.

The idea is to gather large number of handwritten digits, known as training examples, and then develop a system which can learn from those training examples! In other words, the neural network uses the examples to automatically infer rules for recognizing handwritten digits.

By increasing the number of training examples, the network can learn more about handwriting, and so improve its accuracy. So while I've shown just 100 training digits above, perhaps we could build a better handwriting recognizer by using thousands or even millions or billions of training examples.



Dr. Ratil H Ashiq...			
		Maimunah 4097...	
Abu Raihan 191...		Sudipto Roy	
Vidura Wijekoon		Tania Sarkar	Md Muzabbir H...
Badhan Halder			

## **Battle of Brains-Series Edition: The Biggest Online Quiz Event of This Year**

**Date of the event:** 1<sup>st</sup> & 2<sup>nd</sup> May, 2021

**Chief Guest: Prof. Satya Prasad Majumder, Honorable Vice-Chancellor of BUET**

### **Short Description:**

Department of EEE and EEE club of Green University of Bangladesh have successfully organized this year's biggest online quiz competition 'Battle of Brains –The Series Edition' sponsored by Green University of Bangladesh (GUB) and co-sponsored by TechTutor. Outreach Partners for this event were Youth Opportunities and School of Engineers and Media Partners were Dhaka Post and Radio Bhumi FM 92.8 FM. This was the innovation of the dynamic chairperson of the EEE department, Dr. ASM Shihavuddin, who thought that a quiz competition during this COVID-19 pandemic situation would motivate the young learners of our country in science and technology. Prof. Satya Prasad Majumder, Vice-Chancellor of BUET was the Chief Guest of this contest. Honourable Vice-Chancellor of GUB, Prof. Dr. Golam Samdani Fakir; Honourable Pro Vice-chancellor of GUB, Prof. Dr. Md. Abdur Razzaque; Distinguished Professor of EEE dept, Prof Dr Kamrul Ahsan; Honourable Treasurer Prof Dr Fayzur Rahman and Chairperson of EEE department, Dr ASM Shihavuddin were present in the program as honorable guests.

The University edition of this event took place on May 1, 2021 where 1600+ students from different public and private universities participated in the competition. The event started at 10.30 am with the introduction and the rules and regulations of the program. A trial run started from 11.00 am to better acquaint the participants with the 'Kahoot' app to give the answers. After the trial round, the Pre-Battle started at 11.30 am. Top 100 participants from the Pre-battle round were invited in the final battle round which started at 2.00 pm. There were 25 questions in the final round. Abdullah Al Rafi Mahmud from BRAC University became the champion of the University edition.

The College and Polytechnic edition took place on May 2, 2021. This time, 900+ students from various renowned Colleges and 350+ participants from different Polytechnic institutions participated in this contest. Pre-Battle for college and Polytechnic edition started at 10.30 am in separate Kahoot links. Top 100 and 25 participants from colleges and polytechnic institutions were selected for the final battle rounds respectively. The final round started at 2.00 pm on the same day. Towsif Ur Rahim from Chittagong College won the championship of the college edition and Sharmin Akter from Chandpur polytechnic Institute won the championship of the polytechnic edition.

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### Some Photographs:



**Prize Giving Ceremony**  
**Battle of Brains**  
**The Series Edition**

**DATE**  
**SUNDAY**  
**02 MAY, 2021**

**TIME**  
**3.00 PM**

**Chief Guest**  
PROF. SATYA PRASAD MAJUMDER  
Vice-Chancellor  
Bangladesh University Engineering and Technology

**PROF. DR. MD. GOLAM SANDANI FAKIR**  
Vice Chancellor  
Green University of Bangladesh

**PROF. DR. MD. ABDUR RAZZAQUE**  
Pro - Vice Chancellor  
Green University of Bangladesh

**PROF. DR. MD. QUAMRUL AHSAN**  
Distinguished Professor  
Department of EEE  
Green University of Bangladesh

**PROF. DR. MD. FAIZUR RAHMAN**  
Treasurer  
Green University of Bangladesh

**DR. ASM SHIHAVUDDIN**  
Chairman and Associate Professor  
Department of EEE  
Green University of Bangladesh

Organized By -  **Green University**     **YOUTH OPPORTUNITIES**  **DILAKA**  **GIST**

Media Partner

**Battle of Brains - The Series Edition**

SAK 849655


Date: 02/05/2021

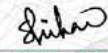
PAY TO: TOWSIF UR RAHIM (CHITTAGONG COLLEGE)

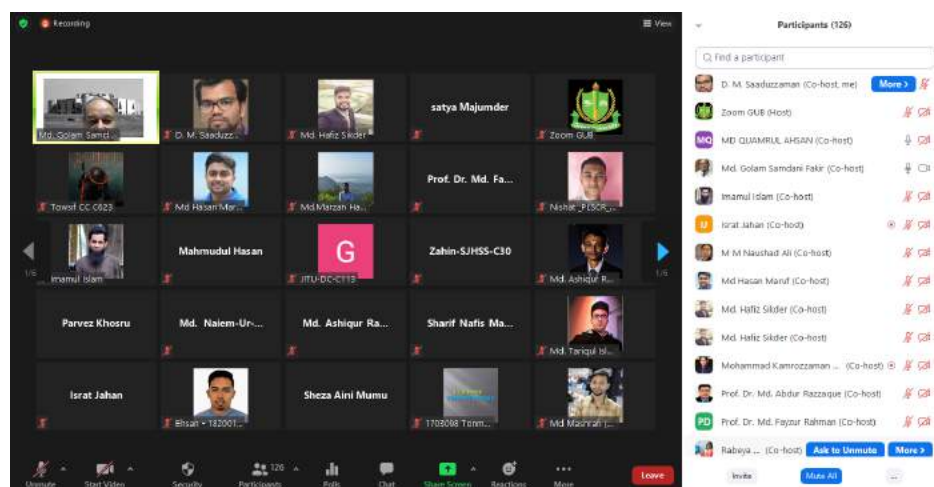
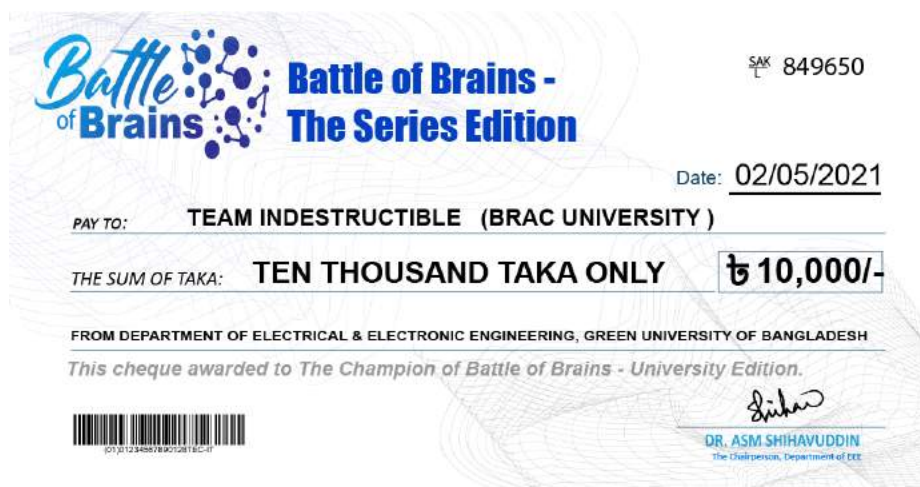
THE SUM OF TAKA: FIVE THOUSAND TAKA ONLY **₹ 5,000/-**

FROM DEPARTMENT OF ELECTRICAL & ELECTRONIC ENGINEERING, GREEN UNIVERSITY OF BANGLADESH

This cheque awarded to The Champion of Battle of Brains - College Edition.

  
(01)01234567890128TEC-IT

  
**DR. ASM SHIHAVUDDIN**  
The Chairperson, Department of EEE



## **SUCCESSFUL COMPLETION OF THE FRESHER'S ORIENTATION PROGRAM OF DEPT. OF EEE – SUMMER 2021**

**Date of the event: June 27, 2021**

### **Short Description:**

Department of Electrical and Electronic Engineering of Green University of Bangladesh (GUB) successfully organized the virtual “Fresher’s Orientation Program” for Summer-2021 on 27 June 2021.

It is our great pleasure to inform you that Prof. Dr. Md. Golam Samdani Fakir, Vice-Chancellor; Prof. Dr. Md. Abdur Razzaque, Pro-Vice-Chancellor; Dr. ASM Shihavuddin, Associate Professor and Chairperson, Department of EEE, Prof. Dr. Fayzur Rahman, Treasurer, GUB; Prof. Dr. Md. Quamrul Ahsan, Distinguished Professor; Department of EEE, faculty members, Departmental coordination officers, newly admitted students, and students from different batches were present at this event.

Prof. Dr. Md. Golam Samdani Fakir, Honorable Vice-Chancellor, Green University of Bangladesh, welcomed all the students for choosing the EEE department as their career pathway.

Prof. Dr. Md. Abdur Razzaque, Honorable Pro-Vice-Chancellor, Green University of Bangladesh, highlighted the quality of research conducted by the EEE department and encouraged the students to focus on skill development to meet the challenges ahead.

The orientation began at 7.30 PM with the recitation from the Holy Quran by Abu Rayhan.

In the beginning, respected Distinguished Professor department of EEE, Prof. Dr. Md. Quamrul Ahsan welcomed all the new students in the department of EEE and highlighted the strengths and prospects of the department of EEE with the students. He also emphasized acquiring basic knowledge for becoming a skilled professional engineer.

Israt Jahan, Lecturer, Dept. of EEE introduced all the faculty members to the new students.

Mr. Md. Najmul Huda Bijoy, Lecturer & mentors’ moderator Dept. of EEE discussed the importance of mentorship programs in GUB.

Mr. Sourav Barua, Lecturer & Program Coordinator (Permanent Campus) discussed departmental coordination and taught new students how to join Google classroom.

Md. Shafin Islam Nijhum, existing student of 211 batch dept. of EEE gave an inspirational speech for the freshers & instructed them on how to conduct online classes.

Honorable Chairperson, Dept. of EEE, Dr. ASM Shihavuddin, ensured to aid the students with the best quality of education. He also mentioned the achievements and research activities of the department of EEE. He thanked the organizers, faculty members, guests, and students for making this online orientation program a successful event.

Among the freshers, Saifullah Shuvon gave a special speech on his admission journey.

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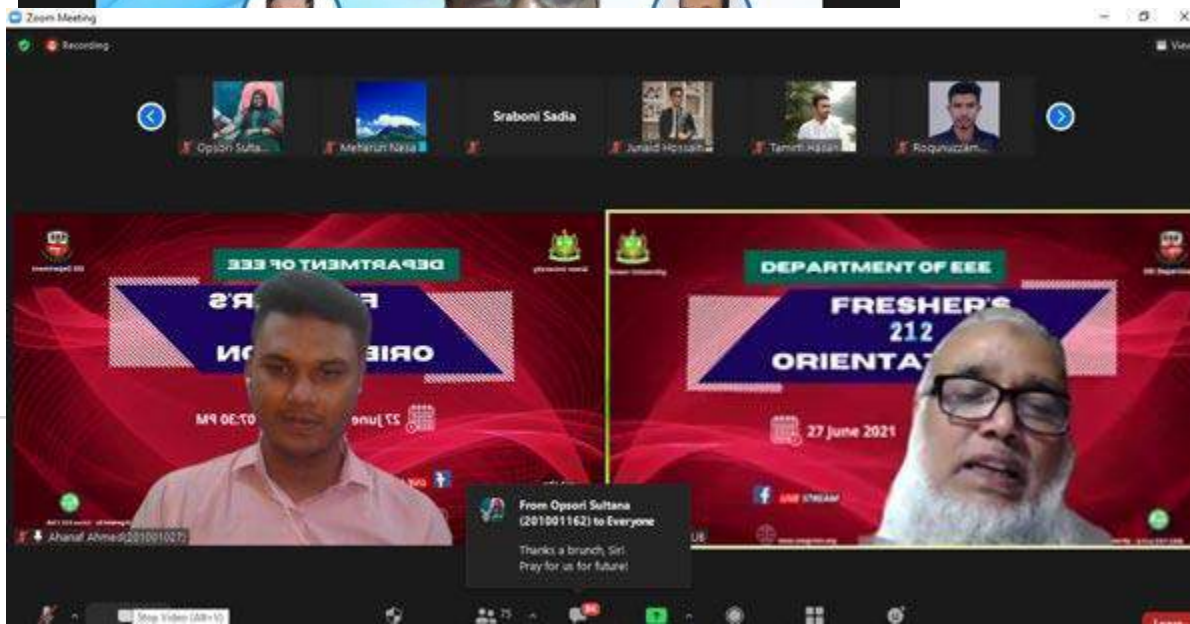
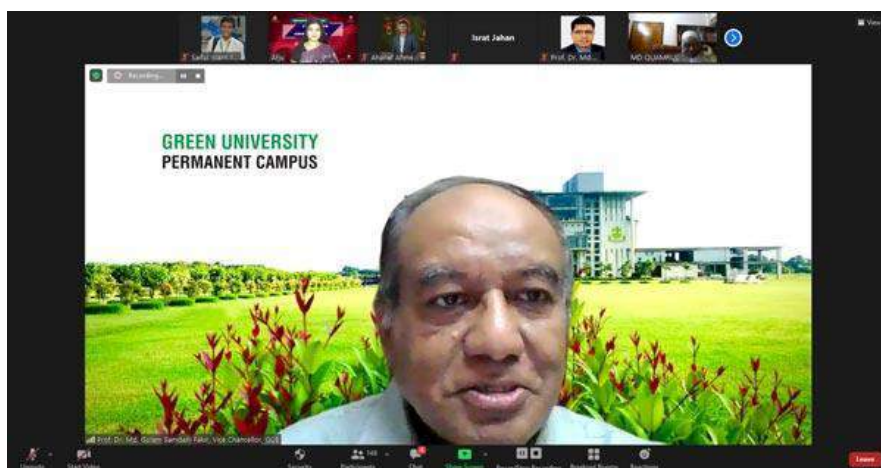


Khondoker Ehsan Mahmud, President of the EEE Club, welcomed the new students and introduced the EEE Club committee 2021, and also shared his views on the co-curricular and extra-curricular activities of the EEE club. Also, Abu Rayhan Sayem, President of the EEE club, introduced the committee 2021 of the EEE club permanent campus.

After that, EEE Club arranged an enjoyable cultural session which included three songs, a poem recitation, a dance, and a short funny drama.

Finally, our program ended with an instructional address by Prof. Dr. Fayzur Rahman, Treasurer, Green University of Bangladesh.

### Some Photographs:



## SUCCESSFUL COMPLETION OF THE ‘MEET THE DEPARTMENT’ PROGRAM ORGANIZED BY THE DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

**Date of the event:** July 9, 2021

### Short Description:

I would like to inform you that the Department of Electrical and Electronic Engineering of the Green University of Bangladesh successfully organized the virtual ‘Meet the Department’ program on 9th July at 8 PM. This program was designed to explore our departmental activities to the outside world by highlighting our academic and research achievements, laboratory facilities, online teaching methodologies, and assessments. The whole program was streamed through Be Live studio and was lived on our EEE – Green University Facebook page. Total views of that program are around 1.8K. Dr. ASM Shihavuddin (Chairperson, EEE), Dr. Ahmed Al Mansur (Associate Professor, EEE), Mohammad Kamrozzaman Kiron (Alumni, EEE), Shafin Islam Nijhum (Student of 2nd semester) were present as the guest speakers. DM Saaduzzaman (Lecturer, EEE) along with Israt Jahan (Lecturer, EEE) conducted the program as the host.

### Some Photographs:



## SUCCESSFUL COMPLETION OF THE WEBINAR SERIES TITLED ‘COMPACT ANTENNAS FOR WIRELESS COMMUNICATION’

**Date of the event:** 8th August, 2021

### Short Description:

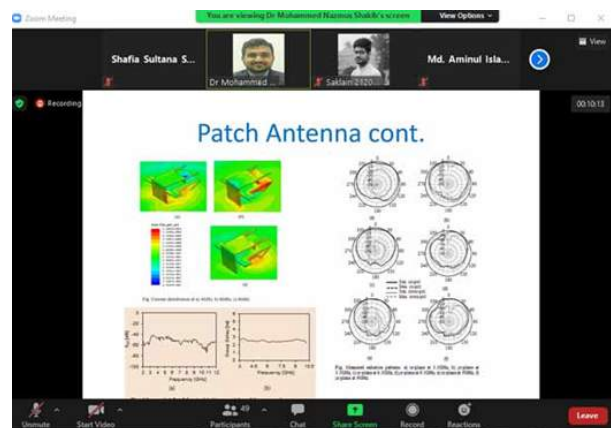
We are delighted to share that the Department of Electrical and Electronic Engineering of the Green University of Bangladesh successfully organized a webinar series(second session) titled ‘Compact Antennas for Wireless Communication’ on 8th August at 2 PM. Around 60 participants participated in the webinar.

Dr. Mohammad Nazmus Sakib, Assistant Professor, EEE department, Green University of Bangladesh facilitated the webinar as the Keynote Speaker. In his speech, he shared his vast experience on compact antennas for wireless communication. Maxwell’s equation and their application were also discussed. He showed how he used EM wave in practical area during his PHD program, the benefits and also challenges.

Dr. Ratil H. Ashique, Associate professor, EEE department, Green University of Bangladesh was present in the webinar as the session chair in charge. During his speech he shared this previous experience on compact antenna and delineated the importance of compact antennas for wireless communication

Israt Jahan (Lecturer, EEE) conducted the program as a host.

### Some Photographs:



## SUCCESSFUL COMPLETION OF THE WEBINAR SERIES TITLED “MATLAB IN ADVANCED EEE STUDY”

**Date of the event:** 7 August, 2021

### Short Description:

We are delighted to share that the Department of Electrical and Electronic Engineering of the Green University of Bangladesh successfully organized a webinar series(first session) titled

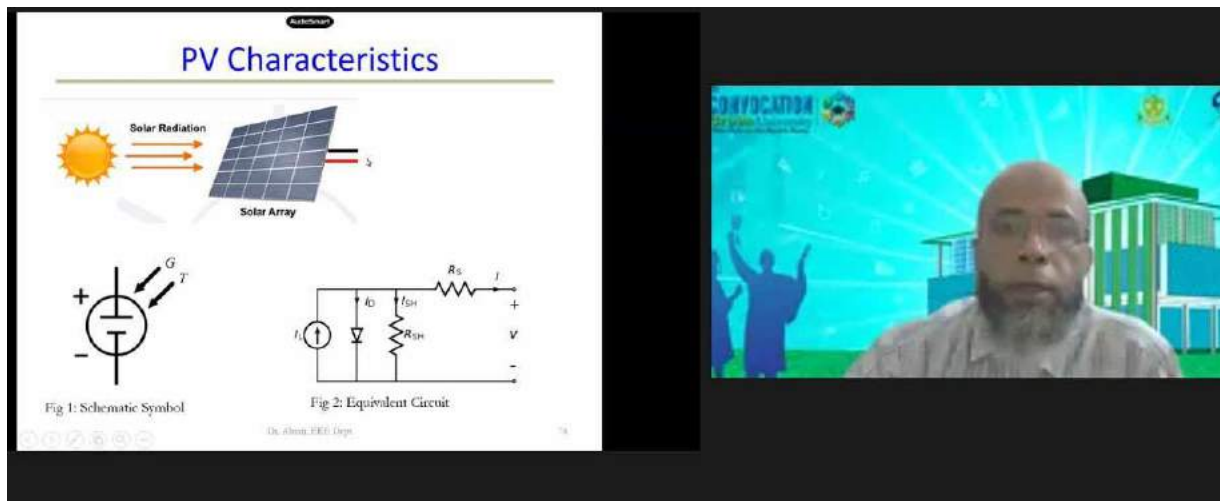
‘Matlab in advanced EEE study’ on 7th August at 2 PM. Around 70 participants participated in the webinar.

Dr. Md. Ahsanul Alam, Associate Professor, EEE Department, Green University of Bangladesh facilitated the webinar as the Keynote Speaker. In his speech, he shared his vast experience on Matlab in advanced EEE study. He showed the fundamentals of Matlab and how to design various applications of Electrical Engineering in Matlab platform.

Honourable Chairperson, EEE department Dr. ASM Shihavuddin was present in the webinar as the session chair. During his speech he shared this previous experience on matlab and delineated the importance of Matlab in advanced EEE study.

Israt Jahan (Lecturer, EEE) conducted the program as a host.

### Some Photographs:







## SUCCESSFUL COMPLETION OF THE FRESHER'S ORIENTATION PROGRAM OF DEPT. OF EEE – FALL 2021

**Date of the event: October 19, 2021**

### Short Description:

We are glad to inform you that the Department of Electrical and Electronic Engineering of Green University of Bangladesh (GUB) had successfully organized the virtual “Fresher’s Orientation Program for Fall 2021 on October 19, 2021.

It is our great pleasure to inform you that **Dr. ASM Shihavuddin**, Associate Professor and Chairperson, Department of EEE, **Prof. Dr. Fayzur Rahman**, Treasurer, **Prof. Dr. Md. Quamrul Ahsan**, Distinguished Professor, Department of EEE, faculty members, departmental coordination officers, newly admitted students, and students from different batches were present at this event. More than 150 participants participated in the event.

The orientation began at 6.30 PM with the recitation from holy Quran by **Md. Abu Raihan**. At the beginning, **Prof. Dr. Md. Quamrul Ahsan**, Distinguished Professor, highlighted the

strengths and prospects of the department of EEE with the students. He also emphasized on acquiring basic knowledge for becoming a skilled professional engineer.

**Ms. Shahela Akter**, Lecturer, Dept of EEE introduced all the faculty members and departmental coordination officers to the students. **Mr. Sourav Barua**, Lecturer & Program Coordinator (Permanent Campus), mentioned the importance of Program Coordinators with the students. **Md. Abdullah Al Oafi Himon**, Lecturer, Dept of EEE, discussed the mentorship program with the students. **Ahmed J. Nahian**, Lecturer (Sr. Level), Dept of EEE, shared the departmental achievements with the freshers.

Honourable Chairperson, Dept. of EEE, **Dr. ASM Shihavuddin**, ensured to aid the students with the best quality of education. He also mentioned the achievements, research activities, co-curricular activities and the strength of unity within the department of EEE. He thanked the organizers, faculty members, guests, and students for making this online orientation program a successful event.

**Shirin Akter** spoke of their expectations, dreams, and goals on behalf of the 213 fresher batch. **Sakib Abdul Ahad**, Alumni, Dept. of EEE, inspired the freshers by his inspirational speech.

**Prof. Dr. Fayzur Rahman**, Treasurer, Green University of Bangladesh, emphasized on the laboratory facilities and mentioned the strength of faculty members of the department of EEE.

**Shahriar Mahmud Kabir**, Assistant Professor and Moderator of the EEE Club, welcomed all the new students to the department. He also explained the activities of the EEE club in recent years.

### Some Photographs:





## SUCCESSFULLY COMPLETION OF THE LIBRARY ORIENTATION PROGRAM FOR THE DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING (EEE): FALL 2021

**Date of the event: October 23, 2021**

### Short Description:

With great pleasure, on behalf of the GUB Library, I would like to inform you that the Library in collaboration with the Department of Electrical and Electronic Engineering (EEE) has organized an Orientation program on Monday, 23 October at 11:00 am using Zoom Platform. The program covered an informative session followed by a practical demonstration of the resources, services, facilities of the library, and how to avail of them. Around 70 participants were present at the Orientation.

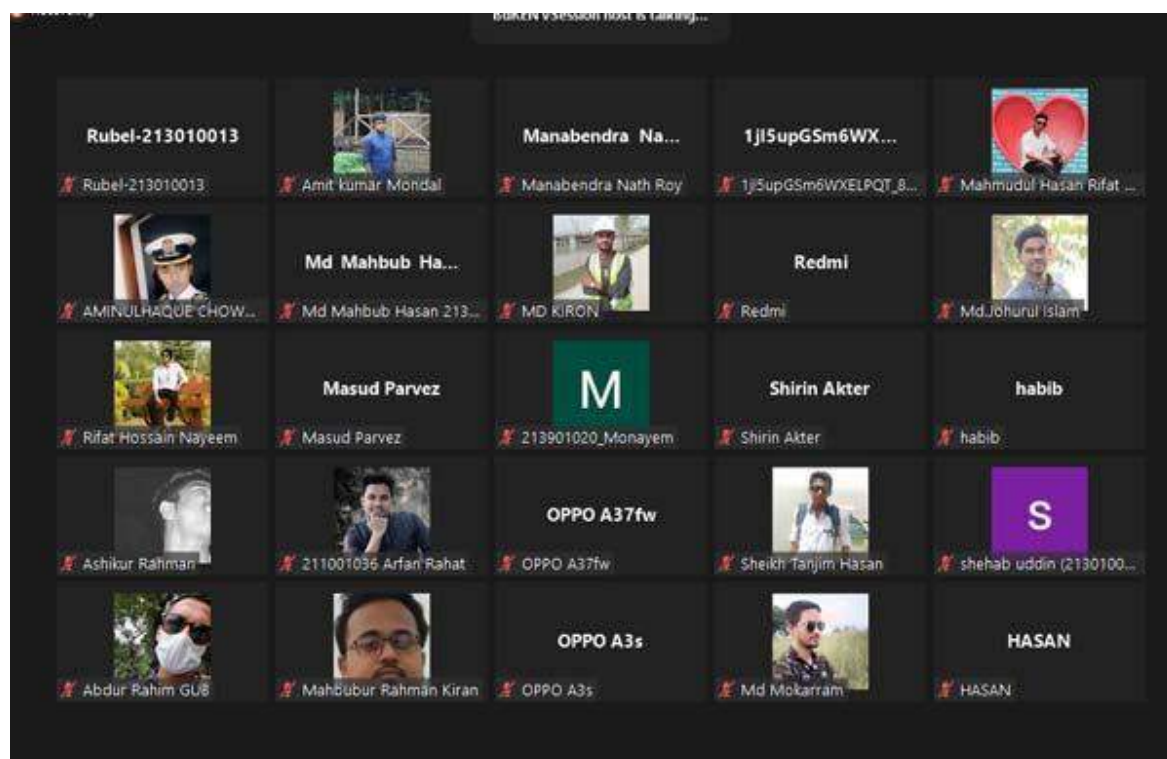
The program began with greetings and anchoring by Mr. **Mahbubur Rahman Kiran**, Lecturer, Dept. of Computer Science & Engineering. He then invited the Deputy Librarian to conduct his session.

Afterward, the Deputy Librarian of the GUB Library Mr. Md. Ashiqur Rahman presented the details of printed resources, e-resources, study facilities, rules and regulations, e-library, and so on. Later he demonstrated the process of searching, downloading e-books and articles from various publishers.

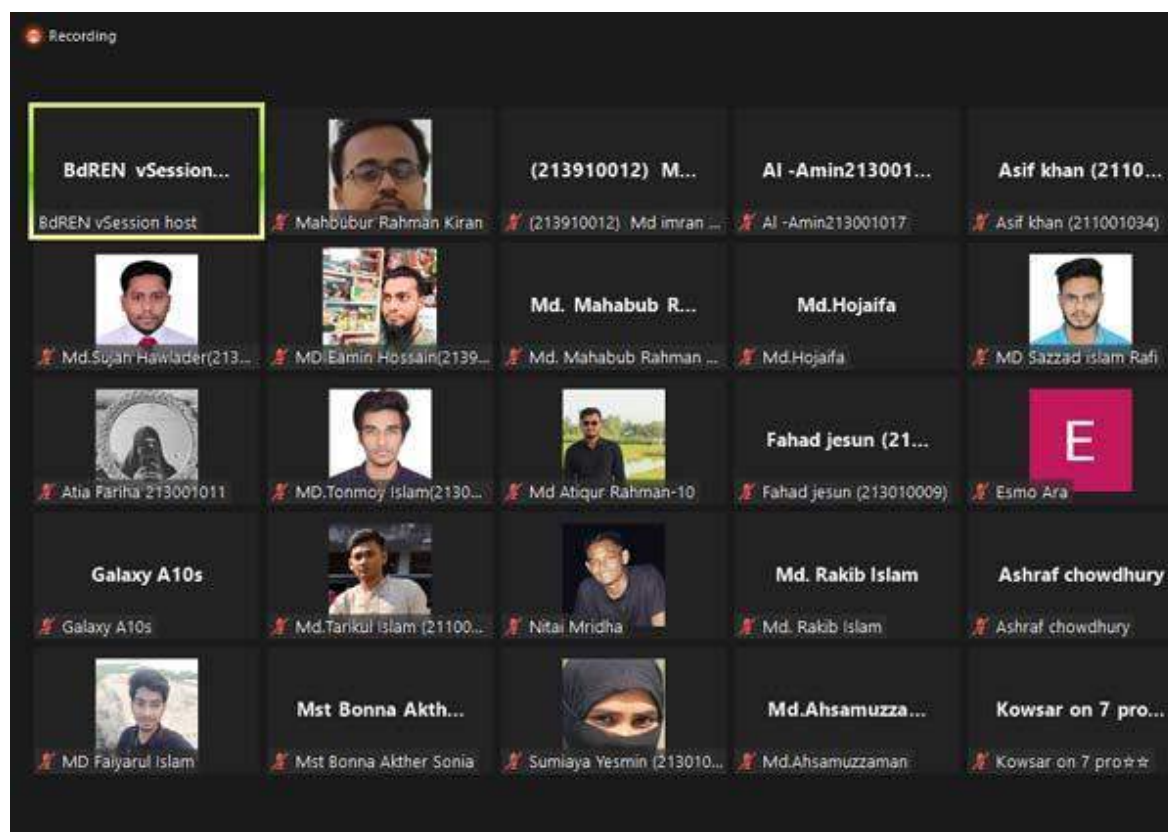
At the end of the program, Mr. **Mahbubur Rahman Kiran** Sir explained why the library resources would be of use in their courses and research works and suggested sharing their earned knowledge on library resources with their mates.

Finally, he appreciated the organizing team for arranging a fruitful session and students for joining the orientation program.

### Some Photographs:







## WORKSHOP ON POWERPOINT SLIDE MAKING BY MENTORSHIP PROGRAM

**Date of the event: November 27 & 28, 2021**

### Short Description:

The Green University Mentorship Program, Dept. of EEE has successfully completed a Workshop titled “Workshop on PowerPoint Slide Making.” This workshop was held 02 Days on 27th & 28th Nov at 07:00 PM on online Zoom Platform. This two days session was enriched by Nayem Sharker, Mentor, Dept of EEE under the program moderator Najmul Huda Bijoy and Abdullah Al Oafi Himon. In the second days of workshop, There’s has been present ASM Shihavuddin, Honorable Chairman and Associate Professor, Dept. of EEE, Hasan Maruf, Honorable Program Coordinator and Assistant professor, Dept. of EEE, Honorable Mizanur Rahman Mizan Sir, lecturer, Dept. of EEE and Mentor Moderator Najmul Huda Bijoy, Lecturer, Dept. of EEE and Abdullah Al Oafi Himon, lab Lecturer, Dept. of EEE. This Workshop achieved 130+ registered participants and presented almost 60+ active participants. This workshop tried to touch all about PowerPoint slide making guide lines and show how the software can be used creatively. The workshop gave new students the opportunity to improve their skills in creating

PowerPoint creative slides, CVs, lab reports and posters. The response from the participants was really amazing and they enjoyed the session and encouraged more such sessions.

### Some Photographs:



**Workshop on PowerPoint Slide Making**

**DAY 02 SCHEDULE**

**07:00 PM**  
**28 Nov**

**Mentorship Program, Fall 2021**

Prof. Dr. Fayzur Rahman  
Time: 07:50-07:55 PM


Dr. ASM Shihavuddin  
Time: 07:55-08:00 PM

Dr. Ahmed Al Mansur  
Time: 08:00-08:05 PM

Mr. Hasan Maruf  
Time: 08:05-08:10 PM

Mr. Mizanur Rahman Mizan  
Time: 08:10-08:15 PM

\*Prescheduled session will continue 07:00-07:50 PM.  
\*Schedule time can be change depending on session.



**Workshop on PowerPoint Slide Making**

**DAY 01 SCHEDULE**

**07:00 PM**  
**27 Nov**

**Mentorship Program, Fall 2021**

- ❖ Waiting for Participates 07:00-07:05 PM
- ❖ Session Opening Speech By Chairman Sir 07:05-07:10 PM
- ❖ Session Speech By Najmul Huda Bijoy sir 07:10-07:15 PM
- ❖ Main session will start...

\*Schedule time can be change depending on session.



The poster features a dark blue background with a large teal circle on the left containing a portrait of the instructor, Nayem Sharker. In the top left corner are the logos of Green University and EEE. The main title 'WORKSHOP PowerPoint Slide Making' is in large, bold, pink and white text. Below it, an orange rounded rectangle says '02 Days Workshop'. To the right, the dates '07:00PM 27 & 28 NOV' are in pink. Below the dates is the 'Registration Link' and a URL. At the bottom left, it says 'Mentorship Program, Fall 2021'. At the bottom right, there is a green bell icon and the text 'Registration Going On'. Three circular icons (target, lightbulb, pie chart) are also present.

**WORKSHOP**  
**PowerPoint**  
**Slide Making**

**02 Days**  
**Workshop**

**07:00PM**  
**27 & 28 NOV**

Registration Link  
<https://forms.gle/8zhmBW9F9gKvGdi9>

**INSTRUCTOR**  
**Nayem Sharker**  
Mentor  
Dept. of EEE

**Mentorship Program, Fall 2021**

**Registration Going On**

## PITHA UTSHAB 2021 EEE FAMILY, GUB: A NOSTALGIC JOURNEY

**Date of the event: December 9, 2021**

### **Short Description:**

A Pitha festival has been organized on the evening of December 9 by EEE Green family, where all faculties are gathered at the rooftop of building C to taste a range of pitha. Pitha occupies an important place in our culinary culture. For Bengalis it has been a long tradition to make varieties of pitha, particularly in the winter. In this regard, this festival has been arranged to give some nostalgic moments to faculties. There are different varieties of pitha such as Chittoi, Vapa, puli etc. All faculties have come together and spent quality time.

Special thanks goes to our honorable Chairman sir to inspire us to arrange such a great get together.



**Some Photographs:**



## **DISCUSSIONS BETWEEN CLASS REPRESENTITIVES AND CHAIRPERSON OF THE DEPARTMENT**

**Date of the event: December 13, 2021**

### **Short Description:**

On 13th December, Monday, at 3 PM a meeting between CR of different batches and the Chairperson of EEE department was held in City Campus. At first, the Chairperson got acquainted with them by taking their short introduction. Then he shared some of the achievements throughout this year of the department of EEE with the students, also he expressed his vision and mission. After that CR of the different batches cited the problems they faced on behalf of the students. ASM Shihavuddin sir noted down the problems to solve them as early as possible.

The students who are unable to attend the meeting in person, also join in the meeting through Zoom. The number of participants in the meeting was around 90. Some photographs of the meeting are attached here.

### **Some Photographs:**







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### *EEE Club Activities*

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#### **The Fresher's Orientation Program - Spring 2021**

**Date of the event:** 26<sup>th</sup> February, 2021

**Chief Guest: The Honorable Vice-Chancellor Prof. Dr. Md. Golam Samdani Fakir**

#### **Short Description:**

The Department of Electrical and Electronic Engineering of Green University of Bangladesh (GUB) had successfully organized the virtual “Fresher’s Orientation Program for Spring 2021 on February 26, 2021.

It is our great pleasure to inform you that Prof. Dr. Md. Golam Samdani Fakir, Vice-Chancellor; Prof. Dr. Md. Abdur Razzaque, Pro-Vice Chancellor; Dr. ASM Shihavuddin, Associate Professor and Chairperson, Department of EEE, Prof. Dr. Fayzur Rahman, Treasurer; Prof. Dr. Md. Quamrul Ahsan, Distinguished Professor; Department of EEE, faculty members, departmental coordination officers, newly admitted students, and students from different batches were present at this event.

Prof. Dr. Md. Golam Samdani Fakir, Honorable Vice-Chancellor, Green University of Bangladesh, welcomed all the students for choosing the EEE department as their career pathway.

Prof. Dr. Md. Abdur Razzaque, Honorable Pro-Vice Chancellor, Green University of Bangladesh, highlighted the quality of research conducted by the EEE department and encouraged the students to focus on skill development to meet the challenges ahead.

The orientation began at 3.00 PM with the recitation from Holy Quran by Md. Naeemur Rahman. In the beginning, the respected moderator of the EEE Club, Shahriar Mahmud Kabir, welcomed all the new students in the department of EEE. He also explained the activities of the EEE club in recent years. Mr. Sourav Barua, Lecturer & Program Coordinator (Permanent Campus) introduced all the faculty members to the students. Dr. Ratil H. Ashique, Assistant Professor of the department of EEE highlighted about IEEE Power and energy society student branch in his speech. Mr. Khan Rahmat Ullah, Ph.D. Researcher on Energy Poverty at the University of New South Wales, Australia, talked about higher study opportunities for the students of the department of EEE of GUB. Mr. Said Hossain, Assistant General Manager, BREB, mentioned job projections for EEE graduates of GUB. Prof. Dr. Md. Quamrul Ahsan, Distinguished Professor, highlighted the strengths and future prospects of the department of EEE with the students. He also emphasized acquiring basic knowledge for becoming a skilled professional engineer. Prof. Dr. Fayzur Rahman, Treasurer, Green University of Bangladesh,



emphasized the laboratory facilities and mentioned the strength of faculty members of the department of EEE.

Honorable Chairperson, Dept. of EEE, Dr. ASM Shihavuddin, ensured to aid the students with the best quality of education. He also mentioned the achievements and research activities of the department of EEE. He thanked the organizers, faculty members, guests, and students for making this online orientation program a successful event.

Khondoker Ehsan Mahmud, President of the EEE Club, welcomed the new students and shared his views on the co-curricular and extra-curricular activities of the EEE club. Finally, the program ended with an enjoyable cultural session arranged by the EEE club that included three songs and a poem recitation.

### **Some Photographs:**



## **Workshop on Presentation Skill Development**

**Date of the event: 6<sup>th</sup> and 7<sup>th</sup> April, 2021**

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**Short Description:**

We are glad to inform you that the EEE Club of Green University of Bangladesh (GUB) organized a two day online workshop on “Presentation Skill Development” on April 06 and April 07, 2021. The program was presided by the honorable chairperson Dr. ASM Shihavuddin, department of Electrical and Electronic Engineering. Around 140 participants from different universities of Bangladesh actively participated in the workshop. The committee members of EEE Club, invited guests & registered students were present during the program.

On day one, three distinguished speakers delivered speeches on the above mentioned topic. Biplob Kanti Das, Deputy Director, Center for Career, Development (CCD), GUB was the first speaker to start his session on “How to present a presentation”. He focused on various aspects such as the importance of introducing a presenter, eye contact during presentation, body language, actively engaging the audience during presentation etc. He also mentioned about keeping a presentation slide short but describing in details that attracts the audience more during a presentation. Asif Ul Haque, Lecturer (Senior Level), dept of EEE conducted the second session on “Presentation Slide Preparation”. He discussed how to make proper slides effectively in an organized way. He mentioned the importance of including slide number, simple transitions, consistency in font and colour selection. He also suggested students to focus on storytelling or ice breaking moments to keep the audience involved with the presentation. The session ended with taking questions & answering of students. The third session “How to face Q/A” was conducted by the Chairperson of EEE dept, Dr ASM Shihavuddin. He discussed how to keep a positive attitude during the presentation. He also advised students to be honest during presentation and suggested them to practice more to improve themselves. The session ended with taking questions and answering to students.

On day two, 12 groups of participants from different Universities took part in the competition and were divided in 6 breakout rooms with 3 judges in each room. Judges were selected from different departments of Green University of Bangladesh. The judges appreciated and welcomed all the participants for their presentation. They also hoped that they would learn and improve their presentation skills in near future. Nushera Tazreen, a student of EEE department of Islamic University of Technology (IUT) was the winner of the competition.

Honorable Chairperson, Dept. of EEE, Dr. ASM Shihavuddin, acknowledged the participants, judges, organizers and guests for making this online workshop a successful event. He also encouraged students to apply tips and tricks they gathered from the previous day of the workshop.

**Some Photographs:**

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**Workshop on presentation skills development**  
DAY 01



**Biplob Kanti Das**  
Deputy Director, Center for e-learning development (CLED)  
Green University of Bangladesh

**Dr. ASM Shihavuddin**  
Chairperson, Dept. of EEE  
Green University of Bangladesh

**Mohammad Asif UI Haq**  
Lecturer, Dept. of EEE  
Green University of Bangladesh

Scan to Join

APRIL 06, 2021  
03:30 - 05:30 PM

Registration Link: <https://forms.gle/UEwATM0QD1x3b3>

Organized by  
Green EEE Club

Registration QR Code

<https://www.facebook.com/green.eee.club>

<https://www.instagram.com/green.eee.club>

<https://www.youtube.com/channel/UCwATM0QD1x3b3>

**Workshop on presentation skills development Day 02**

**Our Chief Guest**  
Prof. Dr. Md. Abdur Razzaque  
Pro VC  
Green University of Bangladesh



**Biplob Kanti Das**  
Deputy Director, Center for e-learning development (CLED)  
Green University of Bangladesh

**Mohammad Asif UI Haq**  
Lecturer, Dept. of EEE  
Green University of Bangladesh

**Dr. ASM Shihavuddin**  
Chairperson, Dept. of EEE  
Green University of Bangladesh

**Prof Dr. Md. Quamrul Ahsan**  
Distinguished Professor  
Dept. of EEE  
Green University of Bangladesh

**Dr. Ratil H. Ashique**  
Associate Professor  
Dept. of EEE  
Green University of Bangladesh

**Dr. Md. Ahsanul Alam**  
Associate Professor  
Dept. of EEE  
Green University of Bangladesh

Registration QR Code

Organized by  
Green EEE Club

April 07, 2021  
03:00 - 05:30 PM (GMT+ 6)

<https://adren.zoom.us/j/65989455023>

Zoom Scan to Join

**Green University**

EEE CLUB PRESENTS

**Competition of Presenting**

**Nushera Tazreen**  
EEE  
Islamic University of Technology

**WINNER**



## **EEE GREEN Leadership Award 2021**

**Date of the event:** 19<sup>th</sup> April, 2021

**Chief Guest:** The Honorable chairperson Dr. ASM Shihavuddin, Dept of EEE

### **Short Description:**

EEE Club has organized an online event named EEE GREEN LEADERSHIP AWARD 2021 to acknowledge the dedication and contribution of the ex-club members, present club members and class representatives of the dept. of EEE.

“A sense of appreciation is the simple, most sustainable motivation at work”, with this motto the program started with the recitation from the holy Quran. The moderator of the EEE club Shahriar Mahmud Kabir conveyed the welcome speech thanking all the participants for their tremendous works throughout these years. Then CRs and club presidents shared their experience, some interesting memories, challenges in online classes, and the Ex-club members gave some advice to the new ones. The chief guest, Dr. ASM Shihavuddin, chairperson, Dept of EEE, provided their certificates virtually. The special guest, Prof Dr. Quamrul Ahsan, Distinguished professor, presented his speech focusing on the development of leadership quality throughout the activities of class representatives and club members and admired them for their honesty. The chairperson of the Dept. ended the session by congratulating them with his inspiring words.

Around 75 club members and 30 class representatives received their certificates.

### **Some Photographs:**



## Workshop Titled “Winning a perfect job! – Effective CV writing and Interview”

**Date of the event:** June 28, 2021

**Special Guest:** Professor Dr. Md. Abdur Razzaque, Pro Vice chancellor

### Short Description:

The two days long workshop titled “Winning a perfect job! – Effective CV writing and Interview” has been successfully completed by the EEE Club (Permanent campus). The first day (Day-01) was begun by the energetic session of the key facilitator Mr. Biplop Kanti Das, Deputy Director, Centre for Career development (CCD). In his session, Mr. Das explained the definition of Curriculum vitae and Resume and differences between CV & resume. He also discussed the contents of a professional CV and how an interviewee can enrich his CV. He also entertained some of the questions which were being asked by him to make the session more interactive. He also elaborated the Do’s and Don’ts while writing a professional CV and the importance of writing an organized cover letter. In the second part of his discussion, he narrated the tactics for attending an interview board. He added that the candidates must read the job circular very carefully and pay more attention in personal makeover before attending any interview board. At



the end of the session, he requested all the participants to prepare their CV and send him a learning reflection on his session. One of the special guests was Mr. Nabil Abhrar, Vice president, city bank also enjoyed the session and explained the points and qualities which they look for while recruiting employees for the city bank. The session was attended by 178 participants from different departments of the Green University.

In the second day (Day-02) of the workshop, the workshop organizing committee arranged a Demo interview session for all the participants through registration process. Several Interview boards were consisted in conducting the session-02.

Interview Board-01: Dr.ASM Shihavuddin & Mr. Asif Ul Haq

Interview Board-02: Mr. Saaduzzaman & Dr. Md. Asaduzzaman

Interview Board-03: Mr. Naushad Ali & Dr. Nazmus shakib.

Interview Board-04: Dr. Md. Ahsanul Alam & Mr. Sourav Barua

Interview Board-05: Dr.A A Md.Monzur-Ul-Akhir & Dr. Ratil Hasnat Ashique.

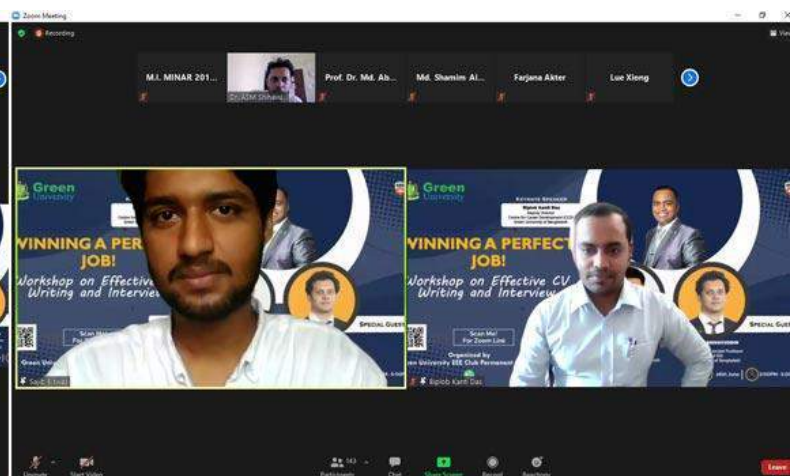
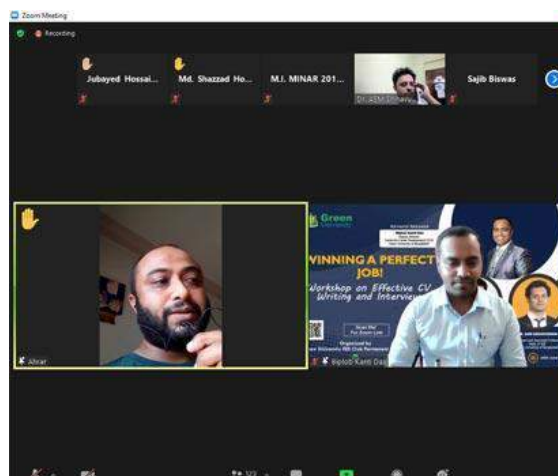
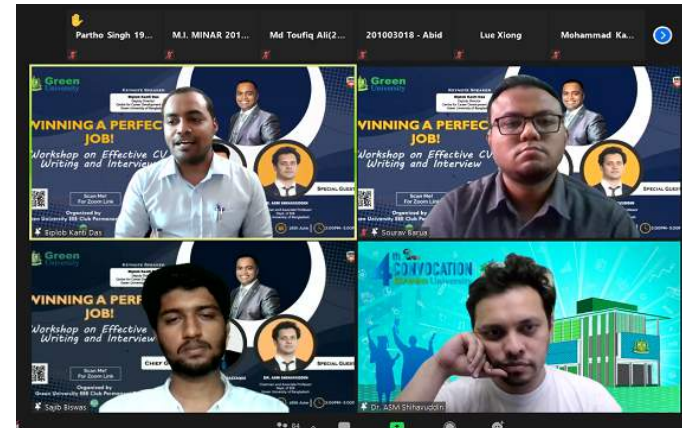
Final Interview Board:

1. Professor Dr. Md Abdur Razzaque (Pro-Vice chancellor, Green University of Bangladesh).
2. Professor Dr.Md Fayzur Rahman (Treasurer, Green University of Bangladesh)
3. Dr. ASM Shihavuddin, (Associate Professor & chairperson, Dept. of EEE, Green University of Bangladesh).

Finally the session was ended by declaring the winners of the demo interview session and awarding them e-certificates. In his speech, special guest of the session, Dr.ASM shihavuddin appreciated the efforts of EEE club permanent campus and anticipated that the members of EEE club will arrange some wonderful workshops for continuing their activities to uphold the mission and vision of the University. The chief guest of the session, Professor Dr. Md. Abdur Razzaque, Pro Vice chancellor, Green University of Bangladesh also praised the initiative of organizing such workshops which helps the graduates to enter the upcoming competitive job of the twentieth century. He also prioritized the development of soft skills and shared some points which an interviewer expects from a fresh graduate. 53 candidates had participated in the demo interview session of Day-02.

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## Some Photographs



## SUCCESSFUL COMPLETION OF THE WORKSHOP TITLED ‘INTRODUCTION TO LATEX’

**Date of the event:** 22 August, 2021

### Short Description:

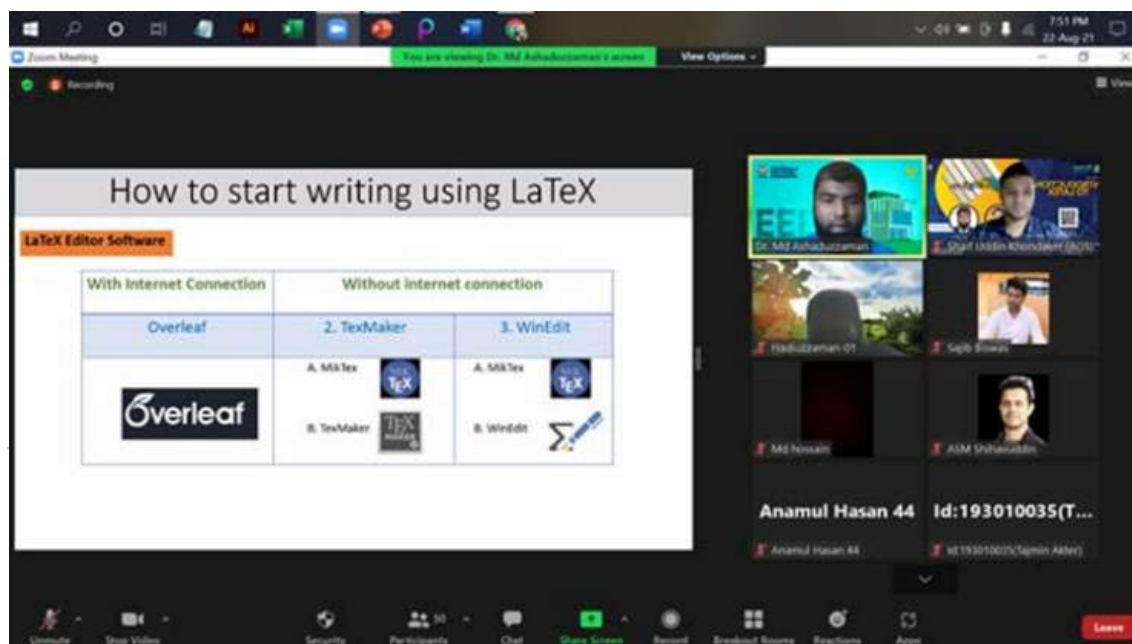
We are delighted to share that the EEE Club (Permanent Campus) of the Department of Electrical and Electronic Engineering of the Green University of Bangladesh successfully organized a workshop titled ‘*Introduction to LATEX*’ on 22th August at 2 PM. Around 65 participants participated in the Workshop.

**Dr Ashaduzzaman, Assistant Professor, Department of EEE**, Green University of Bangladesh facilitated the Workshop as the Keynote Speaker. In his session, he shared his vast experience on introducing the concept of Latex, which is an online collaborative writing and publishing tool that makes the whole process of writing, editing and publishing scientific documents much quicker and easier. Online tool *Overleaf* provides the convenience of an easy-to-use LaTeX editor with real-time collaboration.

**Dr. ASM Shihavuddin**, Chairman and Associate Professor of Department of EEE (GUB) was present in the webinar as the session chair. During his speech he shared his previous experience with Latex and Overleaf.

We are grateful to the keynote speaker, session chair, guests and participants for making the session lively. We hope that this session will be the starting point for many students as well as new faculty members on using Latex.

### Some Photographs:



## EEE DAY 2021- BEYOND THE VIRTUAL – DAY ONE

**Date of the event: October 30, 2021**

### **Short Description:**

The first day of “EEE Day 2021-Beyond the Virtual” has been successfully completed on 30<sup>th</sup> October 2021. First program **Inauguration Ceremony** started with the recitation of a few verses from the Holy Quran and Bhagavad Gita. In the beginning of the program, our Guest of honor, honorable treasurer, **Professor Dr. Md. Fayzur Rahman** focused on the importance of this program to cheer up the students. The chief Guest, honorable Vice-Chancellor, **Professor Dr. Md. Golam Samdani Fakir** Inaugurated the program “EEE Day 2021-Beyond the Virtual”. He appreciated the chairperson of EEE Department, EEE Club Moderator and his team for arranging this mega event virtually. He mentioned the smooth advancement of the EEE department through innovative ideas as well as competent leadership by following the core values of GUB is very impressive. Our special Guest, respected advisor, **Professor Dr. Md. Abdur Razzaque** addressed his educative speech and highlighted that this type of program can energize the students. The honorable Dean, **Professor Dr. Md. Saiful Azad**, Faculty of Science and Engineering, focused on the importance of continuing such a program to come out the students from the dependency on online gaming and social platforms. Distinguished Professor & advisor, Dept. of EEE, **Dr. Md. Quamrul Ahsan** thanked the organizing committee for arranging such an amusing event and emphasized the importance of such programs in developing the skills of students. He noted that this program will help to build up the leadership ability among students. He also mentioned that honorable Vice-Chancellor **Professor Dr. Md. Golam Samdani Fakir** has an immense impact to practice this type of co-curricular activities. The chairperson of the EEE department, **Dr. ASM Shihavuddin** welcomed all the guests and participants with a short brief of the program. He instructed all the responsible people to ensure the fairness and successful completion of the program. The session concluded by thanking all the participants and the guests.

The 2<sup>nd</sup> event was the gaming contest and seminars, which started from 11:00 am including **Ludu, Selfie contest, Carrom, IEEE PES Seminar and Carrier Talk**. Students were so enthusiastic to participate in these different games. More than 1048 students participated in the gaming contest session from 98 universities.

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### **“Ludo – দুই ছক্কা গেল কই”**

The game started at 11.00 am on October 30. 484+ people from different institutions have participated in this event. In the first round, participants played on 102 boards. The 2nd round started at 1.20 pm with 86 winners from round 1 on 32 boards and we selected 19 winners for the next round.

### **“Selfie contest – Hudai Genjam”**

Total 35 students from different universities of Bangladesh participated in this contest. There were 2 rounds, in the 1st round, 11 students were selected on the basis of ‘Likes’. Then in the 2nd round, among 11 students 3 students were selected based on the judge panel number and Likes. In the main event, participant’s shared their thoughts behind their pictures. Results will be declared in the prize giving ceremony.

### **“Carrom – হবে নাকি টুকা টুকি”**

The first 5 rounds of the games were held on October 30 from 3 pm to 9 pm. From 222 Registered Participants, 88 Players played in Round-1. After the end of Round-1, 44 winners were selected for Round-2. From Round 2, 22 winners were selected from the game proceeded to Round-3 & 4. After the end of Round-3 & 4, top 8 players were selected for the Quarter-Final Round. Finally, the top 4 winners were selected for the Semi-Final Round.

### **“IEEE PES Seminar – Imge Processing Matlab”**

In collaboration with the IEEE Power & Energy Society GUB Students Branch Chapter, the Green EEE Club arranged a virtual talk about “Image Processing on MATLAB” at 11:00 am on 30th October, 2021 with more than 50 participants from different universities. Mr. Md. Sayed Tanveer Azam, Lecturer, Dept. of EEE, Green University of Bangladesh, shared his broad expertise in the emerging area of image processing as a keynote speaker. He started his discussion with some applications of image processing and commonly used algorithms in the computer vision toolbox. He mainly focused on region-based segmentation using the pixel values of training images. He also demonstrated how image enhancement works by improving the quality and information content of original data before processing it, including contrast enhancement, spatial filtering, and density slicing, expanding the original range of gray level, and also showed some importance of the object detection method in image processing as well.

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**“Career Talk – টাকা দে দুবাই যাবু”**

To connect with ex-students, gain insight into the job market, and gain knowledge about higher study abroad, the Dept. of EEE organized an event “Career Talk”. The program started at 8:00 pm on 30th October 2021 with more than 50 participants. With the presence of honorable guests, an open discussion about career paths in different sectors was held with alumni students and current students. The honorable discussants of the session were:

- **Halima Khanam**, Manager (CRM)
- **Raihanur Islam**, Senior Networking Engineer
- **A.K KHAN**, TELECOM LTD and
- **Rejaul Karim**, CEO, TNS Engineering LTD.

The guests shared with us some important tips to improve educational life, the job sector perspective of EEE, and some of their experience. They also focused on the development of some important soft skills while studying at the university. They also assured us of internships and overall support in the job sector for our students. The event was also a question and answer session. Participants asked a number of important questions and the guests gave their proper answers and guidelines.

Some moments of this Day are attached herewith.

Event Link: <https://fb.me/e/2BtpnPISM>

Event Website: <https://sites.google.com/view/eeday2021/eee-day-2021>

Facebook live link of

Inauguration: <https://www.facebook.com/watch/live/?ref=search&v=1213296865828649>

Facebook live link of IEEE PES Seminar:

<https://fb.watch/8YPaaKsdyN/>

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## Some Photographs:









## EEE DAY 2021- BEYOND THE VIRTUAL – DAY TWO

**Date of the event: October 31, 2021**

### **Short Description:**

It's my pleasure to inform you that the 2<sup>nd</sup> day of “EEE Day 2021-Beyond the Virtual” has been successfully completed on 31<sup>th</sup> October 2021. Some glimpses of Day 2 of this mega event are attached herewith.

The 2<sup>nd</sup> day started with the **Poster presentation** event at 10:00 am and continued with **Ludu, Talent hunt, Carrom, and Article for the EEE Times**. Students were so enthusiastic to participate in these different games. More than 1048 students participated in the gaming contest session from 98 universities.

The Poster Presentation Contest; EEE Day 2021 (A Virtual poster presentation to merge innovation and technology) was completed successfully on Sunday, 31<sup>st</sup> October, 2021 at 10:00 am to 1:30 pm using Zoom Platform.

Prof. Dr. Md. Fayzur Rahman, Honorable Treasurer of the GUB and the session's chief guest, opened the session with a warm introduction and motivating address. Dr. Md. Nazmus Sakib, assistant professor from the Department of EEE, GUB, greeted the participants and provided his extensive knowledge and instructions on Poster presentation technique and approach to the audience in a competition. Later, the preliminary stage contestants who were chosen to exhibit their posters vocally do so. The contest's judging panel consisted of Dr. Md. Nazmus Sakib, Mr. Mobinul Haque, and Mr. Sourav Barua. On behalf of the organizing committee, Mr. Sourav Barua, Lecturer in the Department of EEE, delivers a speech.

Dr. ASM Shihavuddin, chairperson of the EEE department and the chief patron of the EEE Day-2021 (Beyond Virtual), expresses his appreciation to the contest's contestants, judging panel, volunteers, and audience. He anticipates that the poster presentation contest will become the main event of the EEE Day in the future. In addition, he encourages all students to collaborate together with the department's expert faculty. Finally, he thanked the organizing team for a productive session and proclaimed the session's conclusion.

Online gaming event “Ludo – দুই ছক্কা গেল কই” was completed successfully on Sunday, 31<sup>st</sup> October, 2021 at 11:00 AM using Zoom Platform. On the 2<sup>nd</sup> day of the Online gaming event “Ludo”, the semifinal round started at 11:00 am with 16 winners. All the participants were distributed in three ZOOM meeting breakout rooms and we got the best 4 winners. The final round started with these 4 winners. Out of these 4 people we got the best 3 winners. The participant who has earned 1500 TK as first prize is Inzamamul Hoque Shawon who is the student of the department of CSE, Green University of Bangladesh. First runner up was Md. Nasirul Islam who is the student of department of EEE, Green University of Bangladesh and rewarded 1000 TK as second prize. 2<sup>nd</sup> Runners-up is K M Ruhul Amin, who is the student of the department of EEE, Green University of Bangladesh and got 500 TK as 3<sup>rd</sup> prize. 3 faculty members and 12 volunteers worked actively in this event. Announcing the winners marked the end of this amazing event which garnered a lot of positive comments from students around the country and also gave them something to be excited about in these depressing online based education times.

After the huge success of EEE Day 2020 this year we arranged EEE Day 2021-Beyond The Virtual on an online platform. At first we started working by setting different events with different unique names which will attract people easily. We started working on this event with 7 volunteers under 3 assigned teachers. We started promoting our event on social media after



discussing it with the assigned teacher. We tried to do our best. We shared our event on our Facebook wall, messenger groups, Facebook groups and also individually texted everyone to participate in our event. Our last date of registration for Talent Hunt 2021 was 25th October. On 26th October we published participating content on our YouTube channel with the help of our assigned teachers. Between these we called meetings several times to increase our registered number. On 29th October judges are judged on those contents and give their marks out of 20. On 31st October at 12pm we counted YouTube views. So for a participant their number was summed by judge's mark on 20% and YouTube views on 80%. From that marking we got our winner, 1st runner up and 2nd runner up. On that day we started our event at 2pm. At this event more than 40 people joined and Ms. Sumaiya Afreen was invited by us as a special guest. Dr. ASM Shivabuddin was present there as chief guest and our assigned teachers also present there as judges. They shared their experiences regarding Talent Hunt 2021's content. And a participant also shared his experiences. We have successfully done our event and every member of our event worked very very hard to make it happen!

The Semi-Final round of this gaming contest started at 3.00 pm. Assistant Professor & Moderator of Green University EEE Club, Shahriar Mahmud Kabir, was present at the event. He thanked all who worked behind for making this event successful and wished all the participants for their betterment. MD. Sagar Hossain, Shameem Sarker, MD. Sabbir Hossain, Nazrul Islam were the four Semi-Finalist of the event. MD Sagar Hossain from Choto Chabla BM College won the final round of the game. He was very happy to win the game and hoped that this event would continue in the near future.

Finally, the event ended with the farewell speech of Naushad Ali, Lecturer (Sr Level) & the Deputy Moderator of Green University EEE Club with a congratulation for the winner of the game and good wishes to all.

In 2020, we gained lots of success on EEE Day. This year, we arranged "EEE Day 2021-Beyond the Virtual" on an online platform. We arranged so many events. "EEE Times Article- লিখবো আমি, পড়বে সবাই" is one of them. We started working on this event with 7 volunteers and 3 assigned teachers. We started promoting our event on social media, message, Email and so on. Our last date of registration was 25th October, 2021. After we finished the registration, we got 23 articles. After that, we selected 17 articles from our judges and uploaded those articles on our website which is [eeetimes.org](http://eeetimes.org).

On 31st October, we started our event at 4.00PM. At this event more than 30 people joined and Dr. ASM Shihavuddin sir was present as a chief guest. Also, our assigned teachers present there as judges. Israt Jahan mam said about EEE time website information. After her speech, we showed the top 5 articles and heard some innovative ideas, feelings, and experiences from the

top 5 participants. For a participant their number was summed by judge's mark on 80% and website views on 20%. After that, we got the top three articles which were effective stove design, why and where software and programming skills are required for EEE students, and Dare to fly, way to higher education: scholarship. After that, our chief guest DR. ASM Shihavuddin sir said his precious speech and encouraged us to write some articles. Also, Naushad Ali sir, Asif Ahmed sir, MD. Tariqul Islam sir, and Ahmed Jaudat Nahian sir said their precious speech to volunteers and participants. We successfully did our event and every member worked hard for this event.

The prize-giving ceremony started at 6:30 pm with the recitation of a few verses from the Holy Quran by Abu Raihan Sayem. Our honorable guest Professor Dr. Md. Quamrul Ahsan stated that the EEE department has reached a new platform by organizing different online events and expressed his joy to be present here and praised the active activities of the EEE department despite the pandemic situation. The chairperson of EEE department, Dr.ASM Shihavuddin expressed his gratitude and thanked the Keynote speakers of the seminars, Judges of contests and to the volunteers for their fabulous efforts for the EEE day program. Dr.ASM Shihavuddin announced the names of winners of all 6 events. Lecturer (Sr Level) & the Deputy Moderator, Naushad Ali delivered a spiritual and informative speech to the audience. He also emphasized that this kind of co-curricular activities will help the students to boost up their knowledge and productivity. They congratulated all the winners and thanked participants, speakers, faculty members, and club members for their continuous support and effort in organizing EEE DAY 2021.

Event Link: <https://fb.me/e/2BtnpPISM>

Event Website: <https://sites.google.com/view/eeday2021/eee-day-2021>

Facebook live link of Carrom:

[https://www.facebook.com/watch/live/?ref=watch\\_permalink&v=2982902598636861](https://www.facebook.com/watch/live/?ref=watch_permalink&v=2982902598636861)

YouTube link of Talent Hunt:

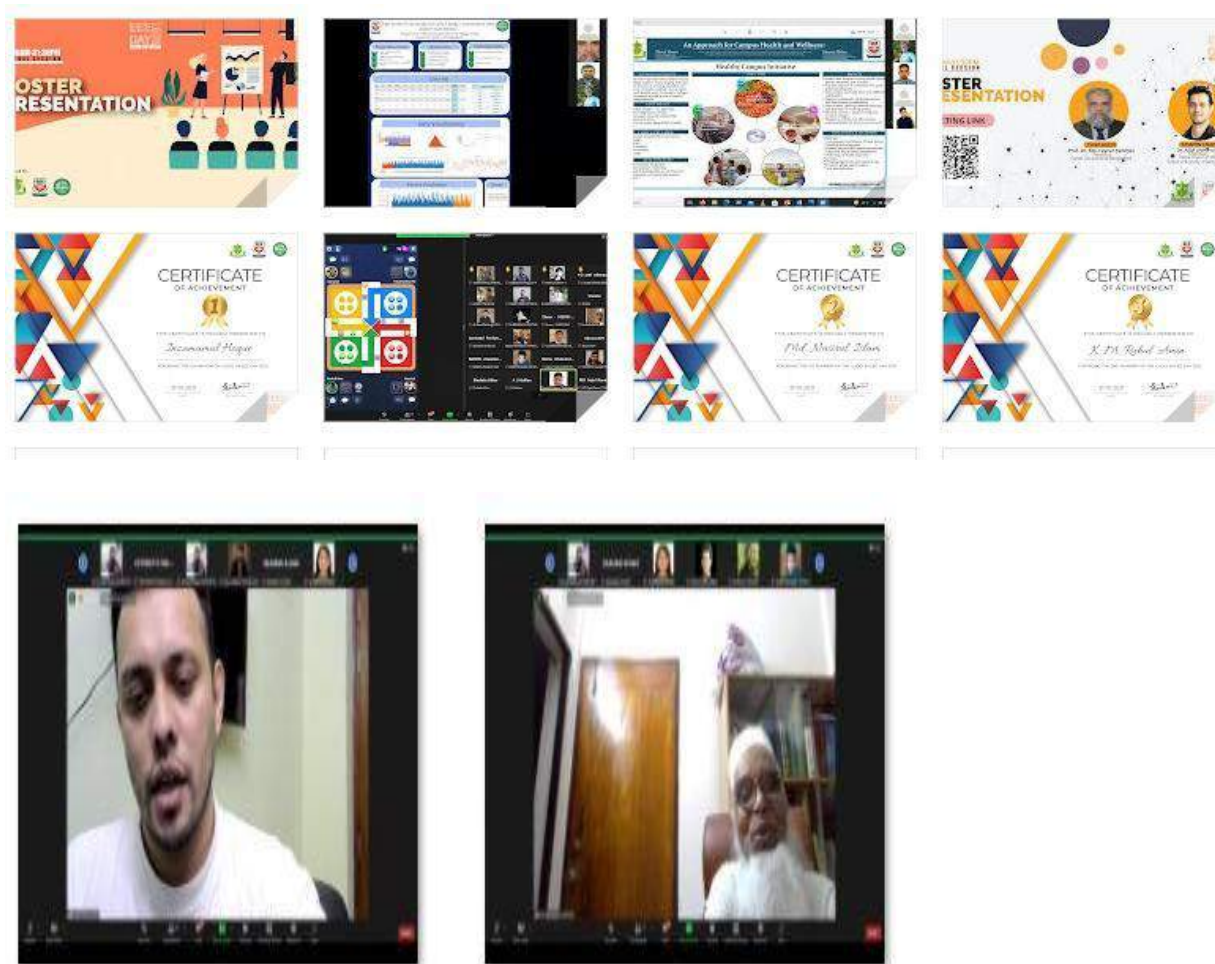
<https://www.youtube.com/playlist?list=PLquA88VPmdkDgZ-cr2hyTca8p1oNCkSA>

Facebook live link of Prize Giving & Closing

Ceremony: <https://www.facebook.com/gubeeclub/videos/405036527844087>

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### Some Photographs:





## SUCCESSFUL CELEBRATION OF “ পিঠা উৎসব এবং সাংস্কৃতিক আড্ডা”

**Date of the event: December 22, 2021**

### Short Description:

A Pitha Festival was organized by EEE club on 22 Dec 2021. It was titled, “পিঠা উৎসব এবং সাংস্কৃতিক আড্ডা”. The event was divided into two parts: pitha festival and cultural program. The

first part of this program commenced at three in the afternoon at Green Garden of Green University of Bangladesh. The chief guest of our program was the honorable chairperson of the EEE department, Dr. ASM Shihavuddin, the moderator of EEE club, Shahriar Mahmud Kabir, and deputy moderators. All the honorable faculty members and students from all the departments were also present at the event.

Distinct pithas, which are considered winter delicacies of Bangladesh, such as chittoi pitha with bhortas, bhapa pitha, patishaapta pitha and dim pitha, were offered to the guests. A fuchka and bhelpuri corner was also set up, where the guests could purchase these items. Around 400 people gathered to enjoy the event.

The second half of this fest, a cultural program, started at around 4.30 pm in the afternoon. The program was initiated by reciting the first three verses of Surah Yeasin of the Holy Quran.

Songs and poetry then filled the hall of Room 302. The honorable chairman of the EEE department also sang a song. Honorable Dean of the Faculty of Science and Engineering, Prof. Dr. Md. Saiful Azad sir delivered an astonishing speech and praised the event, conveners and the volunteers who worked hard to make the fest successful. Mr. Hasan Maruf, Assistant Professor, Dept of EEE gave us a mind blowing song. Afterwards, a magic show was presented by a Mr. Bean lookalike. The students of Green University then performed songs and danced to the beats. Later on, Dr. Md. Mehedi Hasan, Assistant Professor, Dept of Law performed a fabulous song with his magical voice. The program came to an end by capturing photographs with honorable faculty members.

### **Some Photographs:**





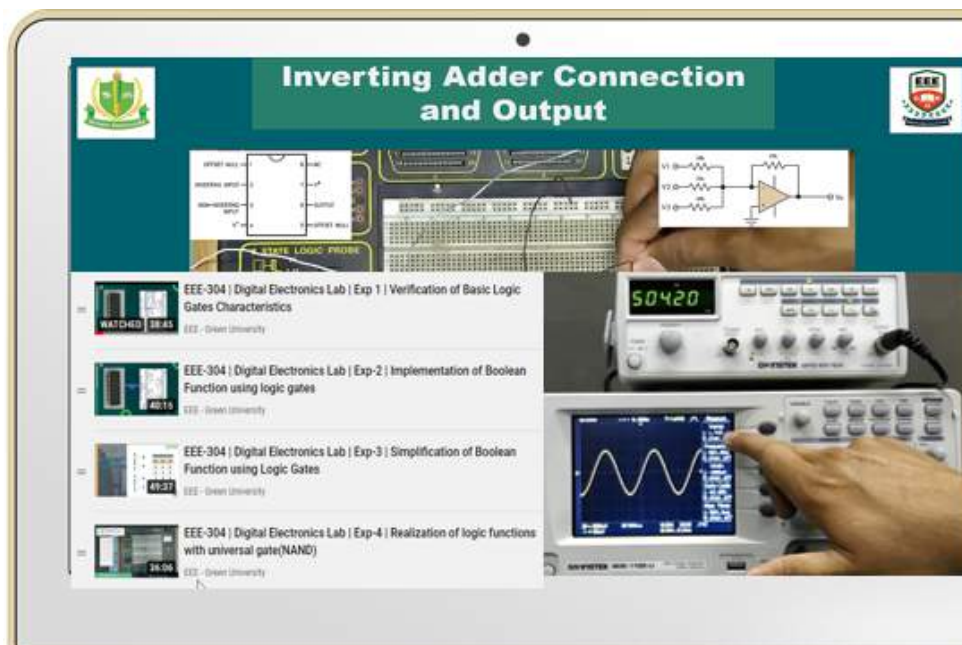


## *Achievements*

### ● Online Lab Videos

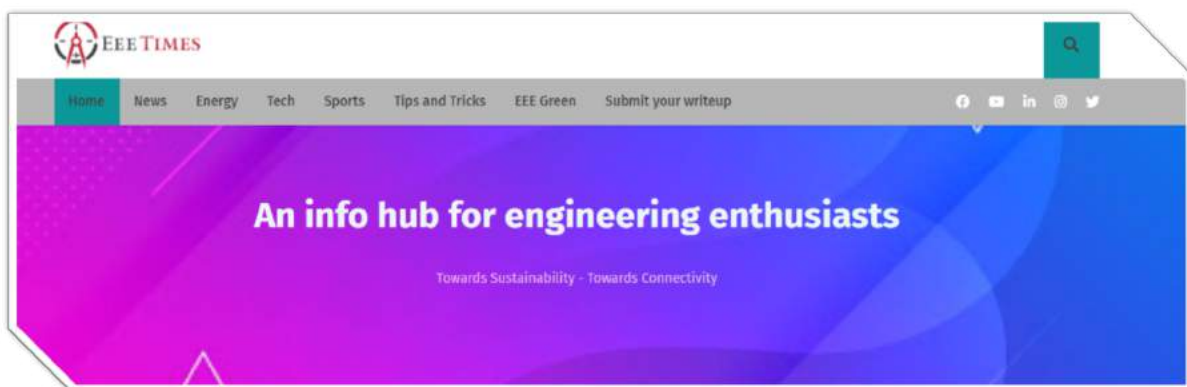
The department of EEE has finalized all lab videos for each experiment in all laboratories. Each lab video includes detailed explanation of laboratory setup, theoretical and experimental demonstrations and preparation of lab reports. Students can have complete visual experience and understanding after going through the lab videos.

Lab Video Links: <https://www.youtube.com/c/EEEGreenUni...>

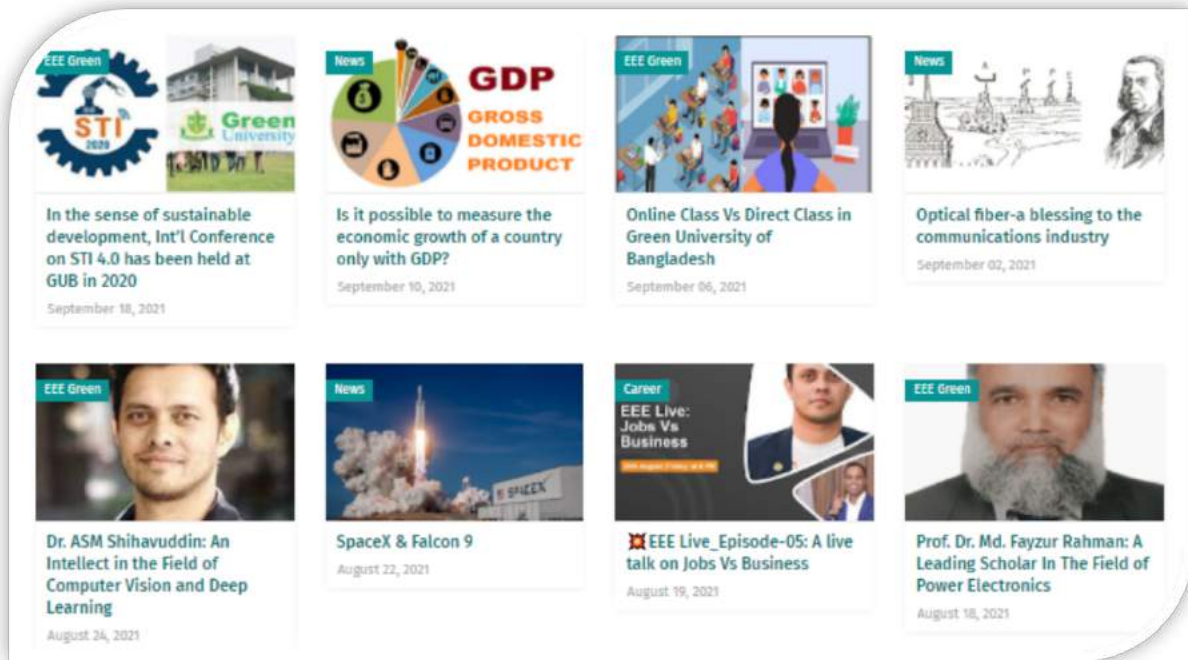


### ● EEE TIMES – An Info Hub for Engineering Enthusiasts

Link: <https://www.eeetimes.org/>







- **Help Center: An Archive for Efficiency**

Link: <https://www.eeegreen.org/>



- **Strengthening online Presence**

Facebook: <https://www.facebook.com/eee.green>

LinkedIn: <https://www.linkedin.com/company/eeegreen>

YouTube: <https://www.youtube.com/c/EEEGreenUniversity>

Alumni: <https://exeeegreen.net>



### *Research Awardees*

EEE - Green University bagged 16 out of 19 research awards in GUB Faculty Research Publication Award 2021 including 3 Outstanding Research Award, 8 Research Excellence Award, 5 Research Award. Congratulations to all the awardees from the EEE Department.

**Green University** **CRT**



**'Multiobjective Optimum Design of Hybrid Renewable Energy System for Sustainable Energy Supply to a Green Cellular Networks'**

Prof. Dr. Md Fayzur Rahman,  
Treasurer, GUB and  
Professor, EEE

**Journal:** MDPI Sustainability Journal;  
**IF**=3.367

**MDPI sustainability**

**RESEARCH EXCELLENCE AWARDEES**

**Green University** **CRT**



**'Towards Energy Efficient Load Balancing For Sustainable Green Wireless Networks Under Optimal Power Supply'**


Prof. Dr. Md Fayzur Rahman,  
Treasurer, GUB and  
Professor, EEE

**Journal:** IEEE Access;  
**Publisher:** IEEE;  
**IF**=3.367

**IEEE Access**

**RESEARCH EXCELLENCE AWARDEES**

**Green University** **CRT**



**'Hybrid Solar PV/Biomass Powered Energy Efficient Remote Cellular Base Station.'**

Prof. Dr. Md Fayzur Rahman,  
Treasurer, GUB and  
Professor, EEE

**Journal:** International Journal of Renewable Energy Research (IJRER);  
**Publisher:** Gazi University, a public university in Ankara, Turkey; **IF**=3.367

**IJRER**

**RESEARCH AWARDEES**

**Green University** **CRT**



**'Techno-Economic and Energy Efficiency Analysis of Optimal Power Supply Solutions for Green Cellular Base Stations'**



Prof. Dr. Md Fayzur Rahman,  
Treasurer, GUB and  
Professor, EEE


**Journal:** IEEE Access;  
**Publisher:** IEEE; **IF**=3.367

**IEEE Access**

**RESEARCH EXCELLENCE AWARDEES**






**'Solar PV and Biomass Resources Based Sustainable Energy Supply for Off-Grid Cellular Base Stations'**

**Journal:** IEEE Access;  
**Publisher:** IEEE;  
**IF=3.387**



**RESEARCH EXCELLENCE AWARDEES**






**'DeepThin: A Novel Lightweight CNN Architecture for Traffic Sign Recognition Without GPU Requirements'**

**Journal:** Expert Systems with Applications,  
**Publisher:** Elsevier;  
**IF=6.954**




**OUTSTANDING RESEARCH AWARDEES**



**'AQUADA: Automated Quantification of Damages in Composite Wind Turbine Blades for LCOE Reduction'**

**Journal:** Wind Energy,  
**Publisher:** John and Wiley;  
**IF=2.730**



**RESEARCH AWARDEES**



**'Greenotyper: Image-based Plant Phenotyping Using Distributed Computing and Deep Learning'**

**Journal:** Frontiers in plant science,  
**Publisher:** Frontiers;  
**IF=5.753**



**OUTSTANDING RESEARCH AWARDEES**



**'Sequential Transfer Learning Based on Hierarchical Clustering for Improved Performance in Deep Learning Based Food Segmentation'**

**Journal:** Scientific Reports;  
**Publisher:** Nature;  
**IF=4.379**



**RESEARCH EXCELLENCE AWARDEES**



**'A Human-Cyber-Physical System toward Intelligent Wind Turbine Operation and Maintenance'**

**Journal:** Sustainability,  
**Publisher:** MDPI;  
**IF=3.251**



**RESEARCH EXCELLENCE AWARDEES**





**'Adaptation for Sustainable Implementation of Smart Grid in Developing Countries Like Bangladesh'**

**Journal:** Energy Reports,  
**Publisher:** Elsevier;  
**IF=6.870**




**OUTSTANDING RESEARCH AWARDEES**




**'Enhanced Energy Savings in Indoor Environment with Effective Daylight Utilization and Area Segregation'**

**Journal:** Symmetry;  
**Publisher:** MDPI;  
**IF=2.713**



**RESEARCH AWARDEES**

**'Dust-Acoustic Rogue Waves in Opposite Polarity Dusty Plasma Featuring Non-extensive Statistics'**

**Journal:** High Temperature;  
**Publisher:** Springer;  
**IF=1.094**



**RESEARCH AWARDEES**






**'Progress in Piezoelectric Material Based Oceanic Wave Energy Conversion Technology.'**

**Journal:** IEEE Access,  
**Publisher:** IEEE; IF=4.48




**RESEARCH EXCELLENCE AWARDEES**

**'Effect of M (Ni, Cu, Zn) doping on the structural, electronic, optical, and thermal properties of GdI : DFT based theoretical studies '**

**Journal:** AIP Advances ;  
**Publisher:** AIP Publishing;  
**IF=1.548**



**RESEARCH AWARDEES**




**'Role of Zn Dopants on the Surface Morphology, Chemical Structure and DC Electrical Transport Properties of Nanostructured p-type CuO Thin Films'**

**Journal:** Materials Science in Semiconductor Processing;  
**Publisher:** Elsevier;  
**IF=3.927**



**RESEARCH EXCELLENCE AWARDEES**

### Research Publications

Sl. No.	Name and Designation of Faculty Member(s)	Title of Publication(s)	Name of Journal(s)/Book(s)	ISSN/ISBN No./ Indexation
1	Dr. ASM. Shihavuddin	A concept of human-cyber-physical systems towards intelligent wind turbines	Sustainability	Scopus
2	Ms. Rabeya Akter Rabu	Synthesis of Metal-Oxide (Al <sub>2</sub> O <sub>3</sub> ) Nanoparticles by using Autoclave for the Efficient Absorption of Heavy Metal Ions	Journal of Nanomaterials & Molecular Nanotechnology	ISSN
3	Dr. Ratil Hasnat Ashique	A Skipping Adaptive P&O MPPT for Fast and Efficient	International Transactions on	ISI, SCOPUS

		Tracking under Partial Shading in PV Arrays	Electrical Energy Systems, John Wiley & Sons Ltd	
4	Dr. Md. Ahsanul Alam	High-Level Renewable Energy Integrated System Frequency Control with SMES-Based Optimized Fractional Order Controller	Electronics	ISI, SCOPUS
5	Mr. D.M Saaduzzaman	"Dust-Acoustic Rogue Waves in Opposite Polarity Dusty Plasma Featuring Nonextensive Statistics"	High Temperature, Springer	Scopus
6	Mr. Biswajit Dey	Numerical design of high performance WS <sub>2</sub> /metal/WS <sub>2</sub> /graphene heterostructure based surface plasmon resonance refractive index sensor	Results in Physics, Elsevier	ISSN
7	Dr. Ratil Hasnat Ashique	An Improved Asymmetrical Multilevel Inverter Topology with Boosted Output Voltage and Reduced Components Count	IET Power Electronics	ISI, SCOPUS
8	Mr. Md. Rasidul Islam	"Impact of contact resistance on the performances of graphene field-effect transistor through analytical study"	AIP Advances	ISSN
9	Mr. Md. Rasidul Islam	High-Performance Phototransistors Based on MnPSe <sub>3</sub> and Its Hybrid Structures with Au Nanoparticles	ACS Applied Materials & Interfaces	ISSN
10	Mr. Md. Rasidul Islam	Optical management in organic photovoltaic devices	Carbon Energy, Wiley	ISSN

11	Ms. Meherun Nesa	Role of Zn dopants on the surface morphology, chemical structure and DC electrical transport properties of nanostructured p-type CuO thin films	Materials Science in Semiconductor Processing	ISSN
12	Ms. Meherun Nesa	Effect of M (Ni, Cu, Zn) doping on the structural, electronic, optical, and thermal properties of CdI <sub>2</sub> : DFT based theoretical studies	AIP Advances	ISSN
13	Dr. Ratil Hasnat Ashique	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current	Electronics	ISSN
14	Mr. Md. Hasan Maruf	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current	Electronics	ISSN
15	Dr. Ahmed Al Mansur	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current	Electronics	ISSN
16	Dr. ASM. Shihavuddin	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current	Electronics	ISSN
17	Mr. Mohammad Asif Ul Haq	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current	Electronics	ISSN

18	Mr. Ashraf Siddiquee	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current	Electronics	ISSN
19	Mr. Md. Rasidul Islam	Thermal transport in monolayer zinc-sulfide: Effects of length, temperature and vacancy defects	Nanotechnology, IOP Publishers	ISNN
20	Mr. Shahriar Mahmud Kabir	Statistical Model Based Breast Tumor Classification in Contourlet Transform Domain	GUBJSE	ISNN
21	Md. Sayed Tanveer Azam	Statistical Model Based Breast Tumor Classification in Contourlet Transform Domain	GUBJSE	ISNN
22	Dr. ASM. Shihavuddin	Statistical Model Based Breast Tumor Classification in Contourlet Transform Domain	GUBJSE	ISNN
23	Mr. Md. Rasidul Islam	M-N-C based Single-Atom Catalysts for H <sub>2</sub> , O <sub>2</sub> & CO <sub>2</sub> Electrocatalysis: Activity Descriptors, Active Sites Identification, Challenges and Prospects	Fuel, Elsevier	ISNN
24	Talha Ibne Mahmud	Sleep Apnea Detection from Variational Mode Decomposed EEG Signal Using a Hybrid CNN-BiLSTM.	IEEE Access	ISNN
25	Mr. Md. Rasidul Islam	Tuning the Structural and Electronic Properties of Two Dimensional Boron Antimonide with defects and Group-III dopants	Physica B: Condensed Matter, Elsevier	ISNN



26	Dr. Nazmus Shakib	Measurement of a compact Boomarang-shaped microstrip antenna for wireless sensor network applications	Cognitive System Research, Elsevier	ISI, SCOPUS
27	Mr. Md. Hasan Maruf	Novel Multicarrier Arrangement for Generating Switching Pulses of Symmetric and Asymmetric Multilevel Inverter with Lowest THDS	2021 International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI), 8-9 July 2021, Rajshahi, Bangladesh	
28	Mr. Tariqul Islam	Novel Multicarrier Arrangement for Generating Switching Pulses of Symmetric and Asymmetric Multilevel Inverter with Lowest THDS	2021 International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI), 8-9 July 2021, Rajshahi, Bangladesh	
29	Prof. Dr. Md. Fayzur Rahman	Novel Multicarrier Arrangement for Generating Switching Pulses of Symmetric and Asymmetric Multilevel Inverter with Lowest THDS	2021 International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI), 8-9 July 2021, Rajshahi, Bangladesh	
30	Dr. ASM. Shihavuddin	Image based surface damage detection of renewable energy installations using a unified deep learning approach	Energy Report	ISSN: 2352-4847
31	Mr. Md. Hasan Maruf	Image based surface damage detection of renewable energy installations using a unified deep learning approach	Energy Report	ISSN: 2352-4847
32	Mr. Mohammad Asif Ul Haq	Image based surface damage detection of renewable energy	Energy Report	ISSN: 2352-4847

		installations using a unified deep learning approach		
33	Dr. Ahmed Al Mansur	Image based surface damage detection of renewable energy installations using a unified deep learning approach	Energy Report	ISSN: 2352-4847
34	Dr. Ratil Hasnat Ashique	Image based surface damage detection of renewable energy installations using a unified deep learning approach	Energy Report	ISSN: 2352-4847
35	Dr. Md. Ashaduzzaman	Decay Nature of Radionuclide Released From Triga Mark-II Reactor	GUBJSE	ISNN
36	Mr. D.M Saaduzzaman	Decay Nature of Radionuclide Released From Triga Mark-II Reactor	GUBJSE	ISNN
37	Mr. Mahbubur Rahman Kiran	The High Frequency Magnetic-link with Distributed YBCO Windings for Power Converter Applications	IEEE TAS	ISNN
38	Mr. Md. Rasidul Islam	Efficient investigation of high performance perovskite solar cells based on shadow-mask kits with uniform patterning and anti-shadowing capabilities	Advanced Materials Technologies, Wiley Publisher	ISNN
39	Mr. Md. Hasan Maruf	Design and comparative analysis of memristor-based transistor-less combinational logic circuits	International Journal of Electronics. Taylor & Francis	ISI, SCOPUS
40	Dr. ASM. Shihavuddin	Design and comparative analysis of memristor-based transistor-less combinational logic circuits	International Journal of Electronics. Taylor & Francis	ISI, SCOPUS

41	Mr. Md. Rasidul Islam	Performance analysis of lead-free CsBi <sub>3</sub> I <sub>10</sub> -based perovskite solar cell through the numerical calculation	Solar Energy, Elsevier	ISSN
42	Mr. Tariqul Islam	Harmonics Reduction of Cascaded H-Bridge Inverter Using Advanced Level Shifted Pulse Width Modulation Technique	International Conference on Electronics, Communications and Information Technology (ICECIT-2021)	
43	Mr. Tariqul Islam	Modelling and Analysis of High Frequency Magnetic Link-Based 11-kV Asymmetric 21 level Inverter for Solar Photovoltaic Systems	2021 IEEE Industrial Electronics and Applications Conference	
44	Prof. Dr. Md. Fayzur Rahman	Harmonics Reduction of Cascaded H-Bridge Inverter Using Advanced Level Shifted Pulse Width Modulation Technique	International Conference on Electronics, Communications and Information Technology (ICECIT-2021)	
45	Prof. Dr. Md. Fayzur Rahman	Modelling and Analysis of High Frequency Magnetic Link-Based 11-kV Asymmetric 21 level Inverter for Solar Photovoltaic Systems	2021 IEEE Industrial Electronics and Applications Conference	
46	Mr. Md. Hasan Maruf	Harmonics Reduction of Cascaded H-Bridge Inverter Using Advanced Level Shifted Pulse Width Modulation Technique	International Conference on Electronics, Communications and Information Technology (ICECIT-2021)	
47	Mr. Md. Hasan Maruf	Modelling and Analysis of High Frequency Magnetic Link-Based 11-kV	2021 IEEE Industrial Electronics and	

		Asymmetric 21 level Inverter for Solar Photovoltaic Systems	Applications Conference	
48	Dr. ASM. Shihavuddin	Harmonics Reduction of Cascaded H-Bridge Inverter Using Advanced Level Shifted Pulse Width Modulation Technique	International Conference on Electronics, Communications and Information Technology (ICECIT-2021)	
49	Dr. ASM. Shihavuddin	Modelling and Analysis of High Frequency Magnetic Link-Based 11-kV Asymmetric 21 level Inverter for Solar Photovoltaic Systems	2021 IEEE Industrial Electronics and Applications Conference	
50	Dr. Ratil Hasnat Ashique	Harmonics Reduction of Cascaded H-Bridge Inverter Using Advanced Level Shifted Pulse Width Modulation Technique	International Conference on Electronics, Communications and Information Technology (ICECIT-2021)	
51	Dr. Ratil Hasnat Ashique	Modelling and Analysis of High Frequency Magnetic Link-Based 11-kV Asymmetric 21 level Inverter for Solar Photovoltaic Systems	2021 IEEE Industrial Electronics and Applications Conference	
52	Mr. Md. Rasidul Islam	Superior tunable photocatalytic properties for water splitting in two-dimensional GeC/SiC van der Waals heterobilayers	Scientific Report, Nature	ISSN
53	Mr. Md. Hasan Maruf	Exergy based Evaluation of Power Plants for Sustainability and Economic Performance Identification	Case Studies in Thermal Engineering	ISSN: 2214-157X

54	Dr. ASM. Shihavuddin	Exergy based Evaluation of Power Plants for Sustainability and Economic Performance Identification	Case Studies in Thermal Engineering	ISSN: 2214-157X
55	Mr. Mohammad Asif Ul Haq	Exergy based Evaluation of Power Plants for Sustainability and Economic Performance Identification	Case Studies in Thermal Engineering	ISSN: 2214-157X
56	Dr. Ahmed Al Mansur	Exergy based Evaluation of Power Plants for Sustainability and Economic Performance Identification	Case Studies in Thermal Engineering	ISSN: 2214-157X
57	Dr. Ratil Hasnat Ashique	Exergy based Evaluation of Power Plants for Sustainability and Economic Performance Identification	Case Studies in Thermal Engineering	ISSN: 2214-157X
58	Mr. Tariqul Islam	Exergy based Evaluation of Power Plants for Sustainability and Economic Performance Identification	Case Studies in Thermal Engineering	ISSN: 2214-157X
59	Mr. Sourav Barua	Modelling and Analysis of High Frequency Magnetic Link-Based 11-kV Asymmetric 21 level Inverter for Solar Photovoltaic Systems	2021 IEEE Industrial Electronics and Applications Conference	
60	Dr. Ratil Hasnat Ashique	"A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters"	Electronics	ISSN: 2079-9292
61	Dr. ASM. Shihavuddin	"A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters"	Electronics	ISSN: 2079-9292



62	Mr. Md. Rasidul Islam	"A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters"	Electronics	ISSN: 2079-9292
63	Mr. Md. Hasan Maruf	"A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters"	Electronics	ISSN: 2079-9292
64	Ms. Afsana Mimi Raka	Effect of Heat Treatment on Conformational and Structural Properties of Sugar Beet Pectin	Carbohydrate Polymer Technologies and Applications	ISSN: 2666-8939
65	Mr. Tariqul Islam	Triac Based Novel Single Phase Step-Down Cycloconverter with Reduced THDs for Variable Speed Applications	Applied Science	
66	Prof. Dr. Md. Fayzur Rahman	Triac Based Novel Single Phase Step-Down Cycloconverter with Reduced THDs for Variable Speed Applications	Applied Science	
67	Mr. Tariqul Islam	Harmonic and Switching losses Optimization of Asymmetric Multilevel Inverter Using Advanced Modulation Technique for Small Scale PV Systems.	Energy Engineering	ISSN: 1546-0118 (online)
68	Mr. Mahbubur Rahman Kiran	Increase in the Power Transfer Capability of Advanced Magnetic Material Based High Frequency Transformer by Using a Novel Distributed Winding Topology	IEEE Industry Applications Magazine	

69	Mr. Mohammad Asif Ul Haq	Development of an adaptation model by applying non-linear programming to compute adaptation deficiency in climatic hotspots	Progress in Disaster Science	ISSN: 2590-0617
70	Mr. Md. Naiemur Rahman	Extraction of Maximum Power of Grid Connected PV Systems Using Advanced FLC	International Journal of Renewable Energy Research	ISSN: 1309-0127
71	Mr. Ahmed Jaudat Nahian	Prospects of Mini-Hydel Power Generation in Drainage Systems of Bangladesh	2nd International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST 2021)	
72	Mr. Ahmed Jaudat Nahian	Exploring the best hybrid energy system for the off-grid rural energy scheme in Bangladesh using a comprehensive decision framework	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	ISSN: 15567036, 15567230
73	AKM Shahabuddin	Low-Temperature Growth of ZnO Nanoparticles by Using Autoclave	‘Nanosistemi, Nanomateriali, Nanotehnologii	(CODEN: NNNAAT; ISSN: 1816-5230)
74	Mr. Tariqul Islam	A Novel Hexagonal Shaped Multilevel Inverter with Reduced Switches for Grid Integrated Photovoltaic System	Sustainability	ISSN: 2071-1050
75	Prof. Dr. Md. Fayzur Rahman	A Novel Hexagonal Shaped Multilevel Inverter with Reduced Switches for Grid Integrated Photovoltaic System	Sustainability	ISSN: 2071-1050
76	Dr. Ratil Hasnat Ashique	Development of a Smart Automatic Gas Leakage	IEEE 12th Annual Information Technology,	

		Detector and Alarming System	Electronics and Mobile Communication Conference (IEMCON)	
77	Mr. Sourav Barua	Internet of Things (IoT) Based Underground Cable Fault Detection by using Raspberry PI and Arduino interfaced with Blynk server	Journal of Web Engineering & Technology:	ISSN: 2455-1880
78	Md. Mizanur Rahman	Design and Modelling of Grid Connected Multilevel Inverter for Microgrid Applications	STI 2021	
79	Mr. Md. Hasan Maruf	Design and Modelling of Grid Connected Multilevel Inverter for Microgrid Applications	STI 2021	
80	Prof. Dr. Md. Fayzur Rahman	Design and Modelling of Grid Connected Multilevel Inverter for Microgrid Applications	STI 2021	
81	Mr. Tariqul Islam	Design and Modelling of Grid Connected Multilevel Inverter for Microgrid Applications	STI 2021	
82	Dr. Ratil Hasnat Ashique	Q Slot Terahertz (THz) Novel Antenna Design for Wireless Communication	STI 2021	
83	Prof. Dr. Md. Fayzur Rahman	Design and Modelling of Grid Connected Multilevel Inverter for Microgrid Applications	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT)	
84	Dr. Ratil Hasnat Ashique	Critical Analysis and Performance Evaluation of Solar PV-System Implementing Non- Isolated DC-DC Converters	STI 2021	

85	Dr. Md. Ahsanul Alam	An Efficient Protection Scheme for VSC-HVDC System with Modified Bridge Limiter Controller	STI 2021	
86	Dr. ASM. Shihavuddin	Tumor Detection by Rectangular Microstrip Patch Antenna	STI 2021	
87	Mr. Anis Ahmed	Tumor Detection by Rectangular Microstrip Patch Antenna	STI 2021	
88	Dr. ASM. Shihavuddin	Cascaded 3-Stage Nuclei Segmentation using U-net, Faster-RCNN and SegNet for Higher Precision	STI 2021	
89	Mr. Mohd. Kamrozzaman Kiron	Cascaded 3-Stage Nuclei Segmentation using U-net, Faster-RCNN and SegNet for Higher Precision	STI 2021	
90	Mr. Md. Hasan Maruf	Cascaded 3-Stage Nuclei Segmentation using U-net, Faster-RCNN and SegNet for Higher Precision	STI 2021	
91	Mr. Shahriar Mahmud Kabir	Cascaded 3-Stage Nuclei Segmentation using U-net, Faster-RCNN and SegNet for Higher Precision	STI 2021	
92	Mr. Imamul Islam	Cascaded 3-Stage Nuclei Segmentation using U-net, Faster-RCNN and SegNet for Higher Precision	STI 2021	
93	Dr. Ratil Hasnat Ashique	Cascaded 3-Stage Nuclei Segmentation using U-net, Faster-RCNN and SegNet for Higher Precision	STI 2021	

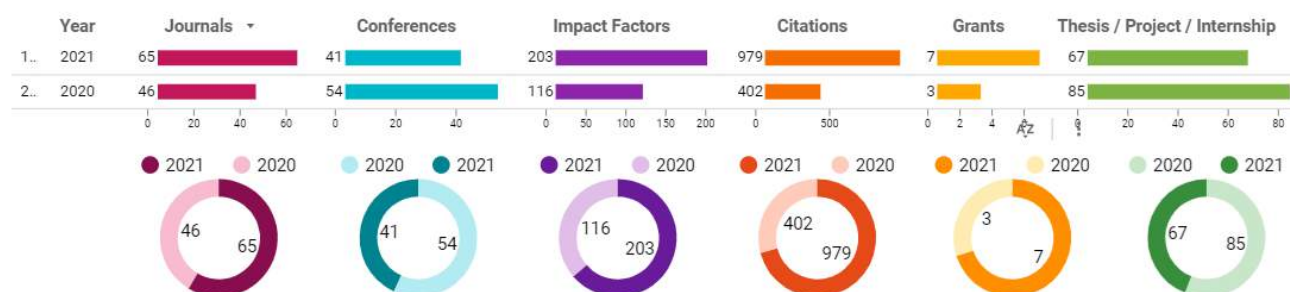
94	Mr. Md. Hasan Maruf	Reducing levelized cost of energy using gas generator in off-grid wind-PV hybrid system	STI 2021	
95	Dr. ASM. Shihavuddin	Reducing levelized cost of energy using gas generator in off-grid wind-PV hybrid system	STI 2021	
96	Dr. Ahmed Al Mansur	Reducing levelized cost of energy using gas generator in off-grid wind-PV hybrid system	STI 2021	
97	Mr. Sourav Barua	Four Vital Data Focused ICU-Patient Monitoring System using 32-bit SoC and IoT Protocol	Journal of Web Engineering & Technology:	ISSN: 2455-1880
98	Mr. Sourav Barua	Modelling and Analysis of High Frequency Magnetic Link-Based 11-kV Asymmetric 21 level Inverter for Solar Photovoltaic Systems	2021 IEEE Industrial Electronics and Applications Conference	
99	Mr. Sourav Barua	Harmonics Reduction of Cascaded H-Bridge Inverter Using Advanced Level Shifted Pulse Width Modulation Technique	International Conference on Electronics, Communications and Information Technology (ICECIT-2021)	
100	Md. Jikrul Sayeed Hosssain	Tunable electronic properties in two-dimensional h-Si/GaP van der Waals heterobilayer	Electrical Information and Communication Technology (EICT-2021)	
101	Mr. Sourav Barua	Performance Analysis of Trapezoidal Carrier Based Modulation Techniques in Multilevel Inverter for Grid	ICEEE 2021	

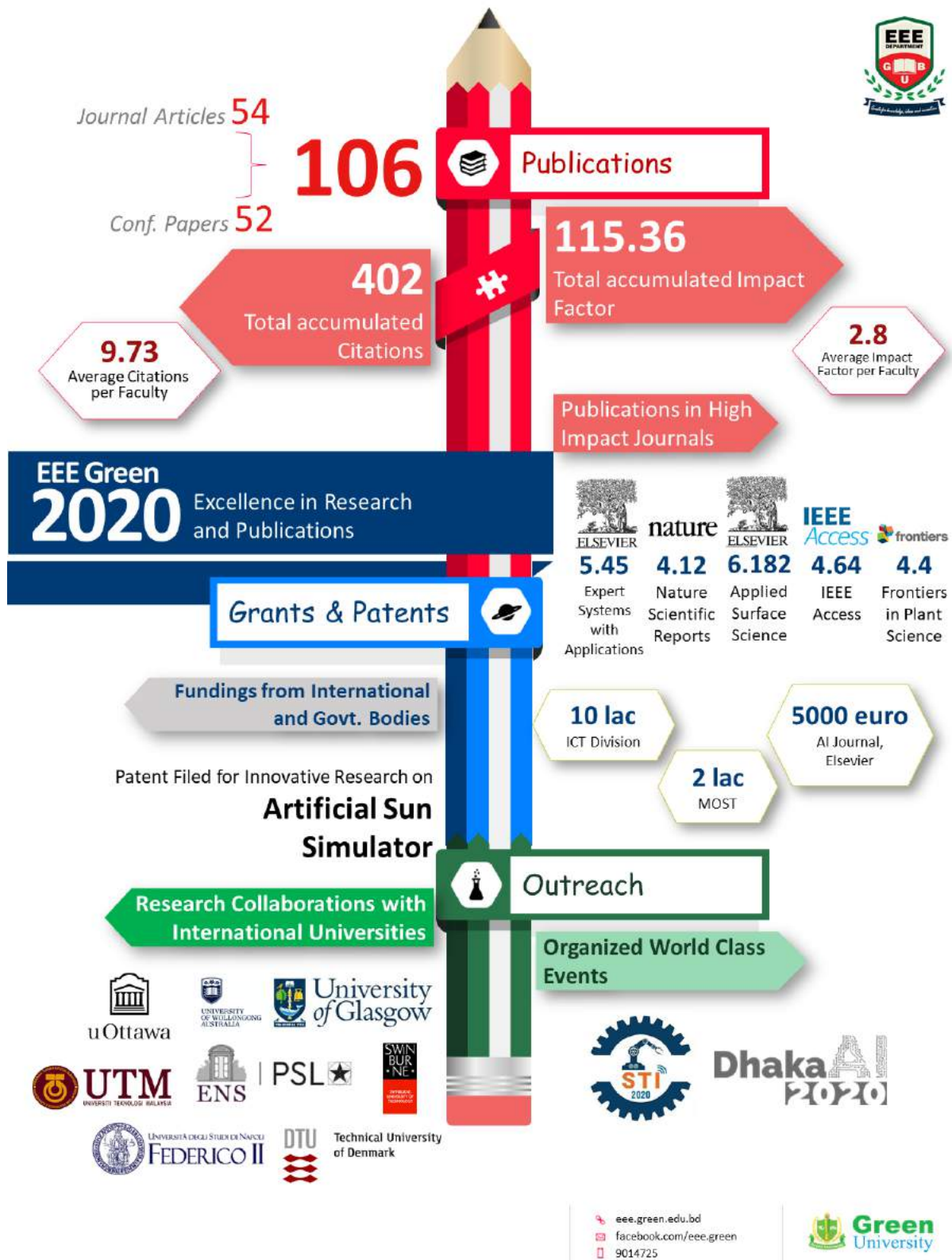


		Integrated Solar Photovoltaic System		
102	Mr. Tariqul Islam	Performance Analysis of Trapezoidal Carrier Based Modulation Techniques in Multilevel Inverter for Grid Integrated Solar Photovoltaic System	ICEEE 2021	
103	Mr. Shahriar Mahmud Kabir	RiIG Modeled WCP Image-Based CNN Architecture and Feature-Based Approach in Breast Tumor Classification from B-Mode Ultrasound	Applied Science	2076-3417
104	Md. Sayed Tanveer Azam	RiIG Modeled WCP Image-Based CNN Architecture and Feature-Based Approach in Breast Tumor Classification from B-Mode Ultrasound	Applied Science	2076-3417
105	Dr. ASM. Shihavuddin	RiIG Modeled WCP Image-Based CNN Architecture and Feature-Based Approach in Breast Tumor Classification from B-Mode Ultrasound	Applied Science	2076-3417
106	Mr. Md. Hasan Maruf	Performance Analysis of Trapezoidal Carrier Based Modulation Techniques in Multilevel Inverter for Grid Integrated Solar Photovoltaic System	ICEEE 2021	
107	Prof. Dr. Md. Quamrul Ahsan	A COMPLETE SET OF INHERITANCE SYSTEM IN THE QURAN	QURANICA	

108	Dr. Nazmus Shakib	Review of Nanosheet Transistors Technology	Tikrit Journal of Engineering Sciences	Scopus
109	Dr. Nazmus Shakib	Backward Radiation Reduction and Bandwidth Enhancement of Metamaterial Antenna for UWB Application	ETCCE2021	ISSN

### Research Dashboard





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### *Arrivals, Departures, and Promotions*

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#### **Arrivals:**

- Dr. ASM Shihavuddin joined as an Associate Professor and Chairperson of the Department in the Spring 2020 semester.
  - Prof. Dr. Md. Fayzur Rahman has started his journey as a Treasurer of GUB in the Spring 2020 semester.
  - Dr. ASM Shihavuddin joined as a director of CTCL in the Spring 2020 semester.
  - Dr. Ratil Hashnat Ashique joined as an Assistant Professor of the Department in the Spring 2020 semester.
  - Dr. A.A.Mohammad Monzur- Ul- Akhir joined as an Assistant Professor of the Department in the Spring 2020 semester.
  - Dr. Md Ashaduzzaman joined as an Assistant Professor (Physics) of the Department in the Spring 2020 semester.
  - Dr. Tahmina Akhter joined as a Lecturer (Contractual) of the Department in the Spring 2020 semester.
  - Mr. Sourav Barua joined as a Lecturer of the Department in the Spring 2020 semester.
  - Ms. Lusain Nima joined as a Lecturer of the Department in the Spring 2020 semester.
  - Mr. Zisun Ahmed joined as a Lecturer of the Department in the Spring 2020 semester.
  - Mr. Tariqul Islam joined as a Lecturer of the Department in the Spring 2020 semester.
  - Mr. Kamal Hossain joined as a Lecturer (Contractual) of the Department in the Spring 2020 semester.
  - Ms. Rabeya Akter Rabu joined as a Lecturer of the Department in the Spring 2020 semester.
  - Ms. Fahima Nowrin joined as a Lecturer (Contractual) of the Department in the Spring 2020 semester.
  - Mr. Md. Abul Khair joined as a Lab Lecturer (Contractual) of the Department in the Spring 2020 semester.
  - Mr. Mohd. Kamrozzaman Kiron as a Lab Lecturer (Contractual) of the Department in the Spring 2020 semester.
  - Mr. Md Ashiqur Rahman joined as a Program coordinator of day and evening batch of City campus in the Spring 2020 semester.
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- Mr. Anis Ul Islam joined as a Lecturer (Contractual) of the Department in the Summer 2020 semester.
- Mr. Biswajit Dey Islam joined as a Lecturer (Contractual) of the Department in the Summer 2020 semester.
- Mr. Nadim Ahmed joined as a Lab Lecturer (Contractual) of the Department in the Summer 2020 semester.
- Mr. Md. Najmul Huda joined as a Lecturer of the Department in the Summer 2020 semester.
- Mr. Md. Naiemur Rahman joined as a Lecturer of the Department in the Summer 2020 semester.
- Mr. Sourav Barua joined as a Program coordinator of day and evening batch of permanent campus in the Fall 2020 semester.

**Departures:**

- Prof. Dr. Md. Fayzur Rahman left his Chairmanship of the department in the Spring 2020 semester.
- Ms. Maliha Nishat left her position (Lecturer, Physics) in the Spring 2020 semester.
- Mr. Sagar Ahmed left his position (Lecturer) in the Spring 2020 semester.
- Mr. Md. Mahfuzul Haque left his position (Lecturer) in the Fall 2020 semester.
- Mr. Nadim Ahmed left his position (Lecturer) in the Fall 2020 semester.
- Mr. Mohammad Asif Ul Haq left his coordinator ship of permanent campus in the Fall 2020 semester.

**Promotions:**

- Dr. Ahmed Al Mansur promoted to Associate Professor in the Spring 2020 semester.
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