

ANNUAL REPORT 2020



Green University of Bangladesh
Department of Electrical and Electronic Engineering

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Overview of the Department

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:

- Prepare the students for entry into the profession.
- Instill in students the capabilities required by the discipline, the recognition of the need to enhance the discipline, and the desire for life-long learning.
- Equip students with a general knowledge of technical and non-technical disciplines so that they are prepared for further study in other fields including professional and graduate education

1.3 Vision Statement

The vision of the Department of Electrical and Electronic Engineering (EEE), Green University of Bangladesh is to ensure the transformational qualities of the graduates and faculty members engaged in acquiring and creating new knowledge and the state of the art in the field of Electrical and Electronic Engineering and thus serving the country as well as the humanity to develop human capital and to yield knowledge base economy and peaceful society.

1.4 Mission Statement

The department is committed to generating, disseminating and preserving knowledge and to working with others to bring this knowledge to bear on the world's greatest challenges. The research and education of EEE will make a difference to human life and will benefit humanity. By melding rigorous analytical thinking 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 increased array of partnership and program. The department will be a point of intersection for many disciplines inside and outside the country.

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

Workshop on Arduino

Date of the event: 24th February, 2020

Venue: IQAC Auditorium

Chief Guest: Dr. ASM Shihavuddin, Chairperson, Department of EEE

Short Description:

GUB EEE Club has successfully hosted a **Workshop on Arduino** on 24th February 2020 at IQAC Auditorium. This workshop was conducted by Bangladesh Open Source Network (BdOSN). BdOSN is well regarded for their contribution in promoting Science, Technology, Engineering, and Mathematics (STEM) education among children, and youth, and advocating women's greater inclusion in the ICT sector. The Resource Person for Arduino Workshop was **Maherul Azam Koreshi** (IoT Engineer, Computer Services Limited, Coordinator, World Robotic Olympiad Bangladesh, Coordinator, Bangladesh Robot Olympiad). **Dr. ASM Shihavuddin**, Chairperson, Department of EEE was present as the session chair of the program. The event became enriched by the presence of **Prof. Dr. Chowdhury Farhan Ahmed**, Chairperson, Department of CSE and **Dr. Muhammad Aminur Rahaman**, Assistant Professor, Department of CSE. Total **46** Students from different Departments of our University participated in this workshop. **Dr. ASM Shihavuddin**, Chairperson, Department of EEE along with **Redwan Ferdous**, Country Representative, World Robot Olympiad (WRO) in Bangladesh; D. M. Saaduzzaman, lecturer, EEE; Md Ashiqur Rahman, lecturer, EEE distributed the **Certificate of Participation** among all the participants at the end of the program.

Some Photographs:





1st Online Seminar: Future of Nuclear Energy

Date of the event: 7th May, 2020 using ZOOM Online

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

Short Description:

A seminar titled “**Future of Nuclear Energy - Do Ternary Fission Reactions hold the key?**” arranged by the Department of EEE, Green University of Bangladesh on 07 May 2020 Thursday, at 11:00 am by using Zoom Platform. The seminar was conducted by **Dr. Md. Ashaduzzaman, Assistant Professor, Department of EEE.**

The seminar focused on Nuclear Energy to reduce our dependence on fuels like coal and oil with the fulfillment of the huge demand for energy for the excessive population. The speaker explained some different ways to produce Nuclear energy and among them the most efficient way is the Ternary Fission Reactions although it's less common but has a massive significance to meet the extreme peaks of demand. The participants got to know that having limited resources and not as much reactants, Ternary Fission Reactions produce the highest amount of energy which legitimately holds the key.

The Honorable **Pro-Vice Chancellor, Prof. Dr. Md. Abdur Razzaque** was present at the seminar as Chief Guest and **Dr. ASM Shihavuddin, Chairperson, Department of EEE** was present as the session chair of the program.

Dr. Md. Fayzur Rahman, Professor, Department of EEE and honorable Treasurer of GUB enlightened the seminar with his appearance. The event also became enriched by the presence of **Dr. Jagannath Biswas, Associate Professor, Textile Department, Dr. Ahmed Al Mansur, Associate Professor, Department of EEE** and **Dr. Md. Shariful Alam, Associate Professor**

from the Textile Department and all of the faculties from different universities. Total **148 Students** from different Departments of different Universities participated in this seminar.

Photograph:



Meet The Department for Summer 2020

Date of the event: 27th June, 2020

Short Description:

Department of Electrical and Electronic Engineering of the Green University of Bangladesh has organized the virtual 'Meet the Department' program for the first time ever. We felt about the requirements from the University Admission aspirants and their guardians for a platform to know more about our Department and get rid of doubts and confusion which marked the inception of this program titled 'Meet The Department'. The chairperson **Dr. ASM Shihavuddin**, Distinguished Professor **Dr. Md. Qamrul Ahsan**, Assistant Professor, Program Coordinator **Md. Hasan Maruf**, Deputy Registrar **Md. Mazharul Islam** and almost all the lecturers, some of the previous and current students of the EEE department were present in the program to answer the queries of the University aspirants students, their guardians, and to share their experiences. The program was also live broadcast on Facebook and the event information reached to more than 10000 targeted audience.

Some key parts of the program are denoted below:

The program started at 11.00 am with the recitation from the Holy Quran. After that, the chairperson gave a welcoming speech and a brief overview of the department.

The deputy registrar **Md Mazharul Islam** talked about the admission process, waivers, and different scholarships offered by the university.

Two of our alumnus **Md. Masum Hossen** and **Tanjila Rashid Pia** talked about job prospects and higher studies to motivate the aspirants and present students.

Some present students talked about their experience with online classes and how they achieved excellent results in this trying time by dint of their hard work, motivation, and also cooperation from the helpful faculty members.

Md. Anto Islam who is the President of EEE Club introduced everyone with the activities of their club and lastly, **Syed Ali** gave an idea about the mentorship program.

During the whole program the university aspirants, their guardians, and also the current students presented their queries. All the Faculty members and the Deputy Registrar responded to their concerns properly.

The program ended with a short speech from Lecturer **D. M. Saaduzzaman** thanking everyone for their presence and participation.

We would like to full-heartedly thank the admission office, especially **Md. Mazharul Islam** for helping us since the idea generation till the final execution.

Some Photographs:



Career Counselling with Aspiring Students of EEE Department.

Date of the event: 8th August, 2020

Chief Guest: The Honorable Treasurer Prof. Dr. Md. Fayzur Rahman

Short Description:

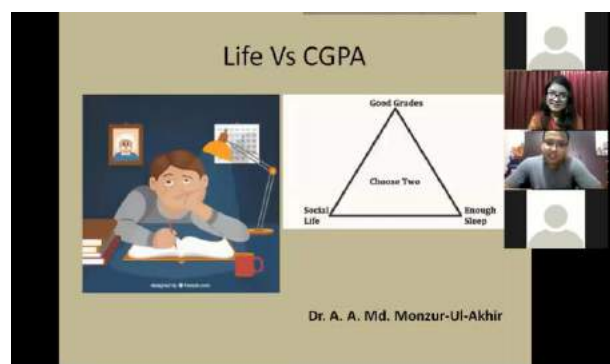
The Department of Electrical and Electronic Engineering (EEE) of Green University of Bangladesh has successfully completed an online Career Counselling in ZOOM platform titled "Career Counselling with Aspiring Students of EEE Department". The session started from 10:00 AM and ended at 11:50 AM on Saturday, 08 August 2020.

The Honorable Treasurer Prof. Dr. Md. Fayzur Rahman adorned the event as the Chief guest and enlightened the students showing ways and means to improve the overall class performance and what additional skill sets they should focus on. Respected Chairperson Dr. ASM Shihavuddin was the session chair of this program and inaugurated the session with his insightful speech.

Prof. Dr. A. A. Md. Monzur-Ul-Akhir, Prof. Dr. Ratil H Ashique and Prof. Dr. Ahmed Al Mansur motivated the students in their speech in different aspects. Mr. Khan Rahmat Ullah, former AP of GUB, attended from University of New South Wales (UNSW), Australia, was present in the session as Special Guest. He focused on the ways and means of Higher Study for the aspirant students of GUB.

Distinguished Professor Dr. Md. Quamrul Ahsan, all Program Coordinators of Day and Evening, and almost all the lecturers, and around 75 aspiring students (CGPA below 03.00 till spring 2020 semester) of the EEE department both city and permanent campus were present in the program. In the program, the discussion focuses on student feedback, ways and means to improve the overall class performance, what additional skill sets they should focus on, how they can prepare themselves as effective and influential ambassadors of the university in the market, and related other topics. Around 75 students attended the program who enjoyed the seminar and participated in the Question & Answer session later.

Some Photographs:





Career Counselling with Inspiring Students of EEE Department.

Date of the event: 8th August, 2020

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

Short Description:

The Department of Electrical and Electronic Engineering (EEE) of Green University of Bangladesh has successfully completed an online Career Counselling in ZOOM platform titled "Career Counselling with Inspiring Students of EEE Department". The session started from 03:00 PM and ended at 04:50 PM on Saturday, 08 August 2020.

The Honorable Distinguished Professor Dr. Md. Quamrul Ahsan sir adorned the event as the Chief Guest and enlightened the students by showing how an Electrical Engineer can contribute in society to lead a comfortable life. Respected Chairperson Dr. ASM Shihavuddin was the session chair of this program and inaugurated the session with his insightful speech.

The students of GUB Shaikh Rafiul Mahmud (183 Batch), Irfan Al Wasi (191 Batch), Alamin (183 Batch) and Farjana Shurovi (172 Batch) shared their feelings about the program.

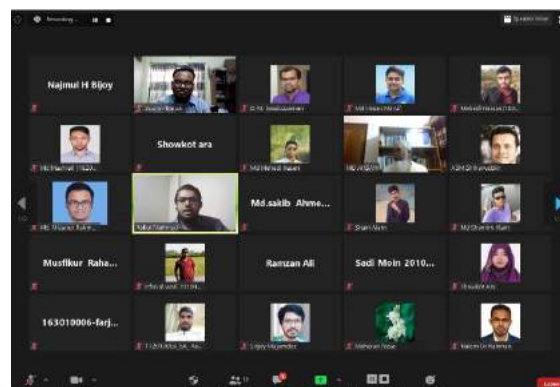
Md. Masum Hossain Lecturer of GUB was present in the session as Special Guest. He focused on the ways and means of Higher Study for the students of GUB and shared resourceful information of ex-GUBians who are pursuing higher education in different countries of the world.

Another Special Guest Md. Abdus Sattar, Assistant Engineer (Technical), Desco was also present in the program. He focused on the preparation for the power sector government job and guided the students with his motivational speech. The students were very interactive throughout the whole session and they clarified their queries by asking questions.

Ex faculty of GUB Sourav Das Gupta who was recently recommended as Assistant Secretary, Ministry of Foreign Affairs, Bangladesh was the special attraction of the program. But unfortunately he was unable to join us due to his busy schedule. He sent motivational speeches for the students through recorded video.

Distinguished Professor Dr. Md. Quamrul Ahsan, all Program Coordinators of Day and Evening, and almost all the lecturers, and around 90 inspiring students (CGPA 3.00 and above 3.00 till spring 2020 semester) of the EEE department both city and permanent campus were present in the program. In the program, the discussion focuses on student feedback, ways and means to improve the overall class performance, what additional skill sets they should focus on, how they can prepare themselves as effective and influential ambassadors of the university in the market, and related other topics. Around 110 participants attended the program. The program ended with the motivational speech of the session chair, Dr. ASM Shihavuddin.

Some Photographs:



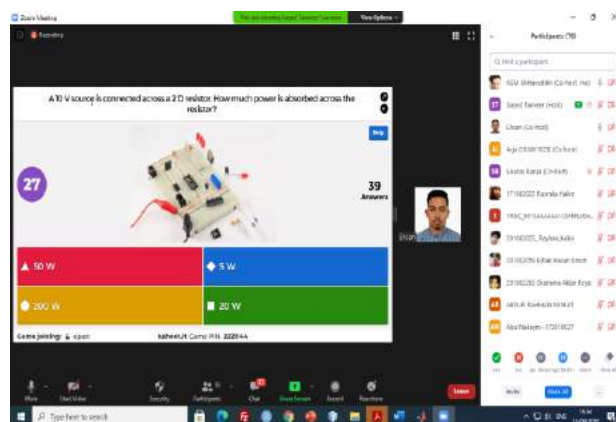
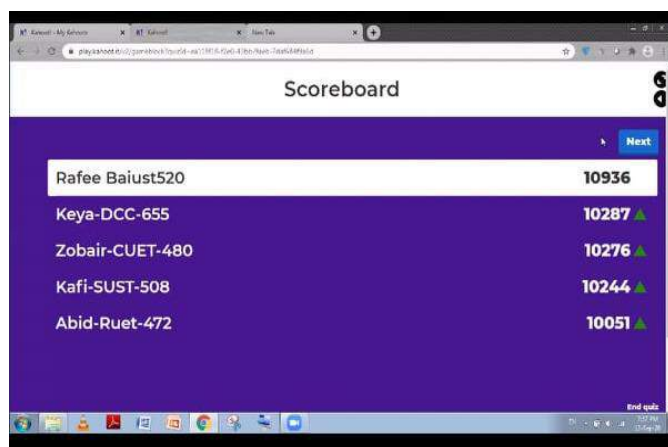
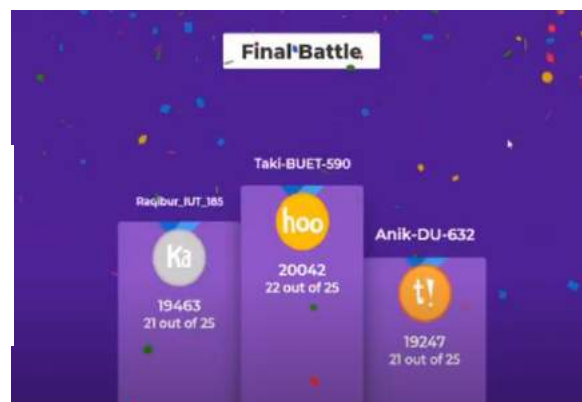
Online competition in University level titled ‘Battle of Brains’

Date of the event: 13th September, 2020

Short Description:

The department of Electrical and Electronic Engineering of the Green University of Bangladesh arranged this year's biggest online quiz competition in University level titled ‘**Battle of Brains**’ on 13th September, 2020. This was the brainchild of the prescient and dynamic chairperson of the EEE department, Dr. ASM Shihavuddin, who thought that a quiz competition in these trying times of the COVID-19 pandemic would motivate the young learners of our country in science. This was clearly visible as 670+ participants from 50+ institutions registered

for the event with great enthusiasm. The event started at 7.00 pm on 13th September. All the participants were distributed in three ZOOM meeting rooms. A trial run started from 7.15 pm to better acquaint the participants with the 'Kahoot' app to give the answers. After the trial round, the First Battle started at 7.40 pm. There were 25 questions in the first round covering Basic Math, Physics, and EEE. The top 33 participants with the highest marks from each of the ZOOM meeting rooms were selected for the Final Battle (aka the Main event). Prof. Md. Golam Samdani Fakir, Prof Dr. Md. Abdur Razzaque, Prof. Dr. Md. Fayzur Rahman, Prof. Dr. Md. Quamrul Ahsan adorned the program with their presence and gave inspiring speeches to the participants. Faculty members from other departments were also present in the main event to inspire the participants. The Final Battle started at 9.30 pm. After battling out for another 25 minutes we got our Top 10. They won a total of 10k BDT in prize money and were each given a certificate. Taki Yasir, from BUET, was placed 1st and got Prize money of 5k BDT. Md. Raqibur Rahman from IUT, Anik Mahmud from DU, Sourav Saha from SUST, Md. Nafiz Newaz from RUET were consecutively the 1st, 2nd, 3rd, and 4th runner ups. A student from the Green University of Bangladesh, named Hasibul Hasan Rahim was placed 9th. He was the only student from a private university in the Top 10. This clearly marks the high student quality intake GUB has achieved in the past few years. 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 times due to the COVID-19 pandemic.





Meet The Department for Fall 2020

Date of the event: 19th September, 2020

Short Description:

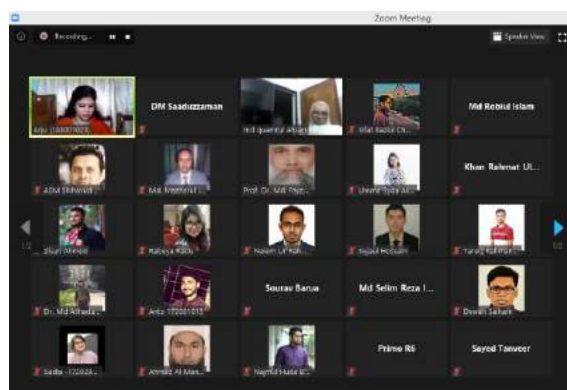
The Department of Electrical and Electronic Engineering of the Green University of Bangladesh has organized the virtual 'Meet the Department' program for the second time. We felt about the requirements from the University Admission aspirants and their guardians for a platform to know more about our Department and get rid of doubts and confusion which marked the inception of this program titled 'Meet The Department'. The chairperson Dr. ASM Shihavuddin, Distinguished Professor Dr. Md. Quamrul Ahsan, Treasurer Prof. Dr. Md. Fayzur Rahman Assistant Professor, Program Coordinator Md. Hasan Maruf, Deputy Registrar Md. Mazharul Islam, almost all of the lecturers, some of the previous and current students of the EEE department were present in the program to answer the queries of the University aspirant's students, their guardians, and to share their experiences. The program was also live broadcasted on Facebook.

Some key parts of the program are denoted below:

- The program started at 12.00 pm with the recitation from the Holy Quran. After that, the chairperson gave a welcoming speech.
- Treasurer and Professor of the EEE department Dr. Md. Fayzur Rahman gave a brief overview of the EEE department.

- The deputy registrar Md Mazharul Islam talked about the admission process, waivers, and different scholarships offered by the university.
- Distinguished Professor and Advisor of EEE department Dr. Md. Quamrul Ahsan gave a motivating speech to the admission aspirants and present students to continue their studies at full pace during this pandemic and why they should choose EEE.
- Khan Rahmat Ullah, Assistant Professor of EEE department who is currently on study leave and doing his PhD in UNSW talked about the higher studies prospects for the EEE students,
- Two of our alumnus Sakib Abdul Ahad and Md. Robiul Islam talked about job prospects and higher studies to motivate the aspirants and present students.
- The Chairperson Dr. ASM Shihavuddin talked about the achievements of the EEE department of GUB during this challenging time due to COVID-19 pandemic.
- Some present students talked about their experience with online classes and how they achieved excellent results in this trying time by dint of their hard work, motivation, and also cooperation from the helpful faculty members.
- Md. Anto Islam who is the President of EEE Club introduced everyone with the activities of their club.
- During the whole program the university aspirants, their guardians, and also the current students presented their queries. All the Faculty members and the Deputy Registrar responded to their concerns properly.
- The program ended with a concluding speech from The Chairperson Dr. ASM Shihavuddin thanking everyone for their presence and participation.

We would like to full-heartedly thank the admission office, especially Md. Mazharul Islam for helping us since. Some of the snapshots are being shared here for you all.



Scholarship Policy for Undergraduate Programs
Table # 1: Scholarships for the Students of SSC and HSC or its Equivalent

Combined GPA in SSC & HSC	Waiver (%) on Credit Fees	Minimum SGPA to be Maintained
GPA 10 (All A+)	100%	3.50
GPA 10	60%	3.25
GPA 8.00 to 9.99	40%	3.00
GPA 7.00 to 7.99	30%	2.50
GPA 5.00 to 6.99	10%	

Webinar on Biomedical Application of Physics.

Date of the event: 25th October, 2020

Short Description:

Dept. of EEE, GUB organized a webinar on “Biomedical Applications of Physics” on 25 October, 2020 at 7:00 PM via zoom online platform.

Prof. Dr. Md. Quamrul Ahsan, Distinguished professor, Dept. of EEE, Green University of Bangladesh graced the event as chief guest. The Keynote Speaker of the webinar was **Md. Moshir Rahman**, Associate professor, Dept. of Physics, Jahangirnagar University. Honorable

chairperson, Dept. of EEE, **Dr. ASM Shihavuddin** also graced us with his valuable presence to chair the program.

The webinar started with the introductory speech from our honorable chairperson. He thanked the keynote speaker for giving his valuable time to make this webinar possible. The honorable chief guest, Prof. Dr. Md. Quamrul Ahsan also shared his valuable thoughts in his opening speech. He expressed the importance of physics and biomedical science as an emerging field for developing new medical treatment methods and applications.

The keynote speaker, Md. Moshir Rahman, started his speech by thanking the Department of EEE, Green University for making this webinar possible. Some of the key parts of his session are denoted below:

- He showed how physics, as a field of science, was discovered and then established. He also explained how biology and physics became connected to make biomedical applications possible in medical science.
- Different areas of study in biomedical science and their applications were shown and briefly described. He also explained what physicists do in real life as a researcher of biomedical science.
- The inner physics behind some of the groundbreaking medical imaging technologies like CT Scan, MRI, PET were demonstrated by the honorable speaker.

He concluded his speech sharing his opinion about this newly emerging field, that medical physics both as a field of research and job is very promising for physicists and engineers of recent time.

After his session, a fruitful question/answer session was arranged for the audience of the webinar. The keynote speaker, Md. Moshir Rahman answered all the questions of the participants.

The webinar finally ended after concluding remarks from both honorable chief guest and chairperson. All the participants got some new aspects and ideas about modern biomedical applications and how physics is playing a key role in this field.



Career Counselling with Aspiring Students of EEE Department.

Date of the event: 29th November, 2020

Chief Guest: The Honorable Treasurer Prof. Dr. Md. Fayzur Rahman

Short Description:

The Department of Electrical and Electronic Engineering (EEE) of Green University of Bangladesh has successfully completed an online Career Counselling in ZOOM titled "Career Counselling with Aspiring Students of EEE Department". The session started from 03:30 PM and ended at 05:10 PM on Sunday, 29th November, 2020. Like other semesters, students having CGPA below 03.00 were invited for this session. The session was inaugurated by the session chair and chairperson of the department of EEE, **Dr. ASM Shihavuddin**. The first speaker of the session **Dr. A. A. Md. Monzur-Ul-Akhir**, Assistant Professor, Dept. of EEE, explained and motivated the students in different aspects for future career development.

The Honorable Treasurer **Prof. Dr. Md. Fayzur Rahman** adorned the event as the Chief guest and enlightened the students showing ways and means to improve the overall class performance and what additional skill sets, they should focus on.

Ms. Showkat Ara, Assistant General Manager, Bangladesh Rural Electrification Board (BREB), was present in the session as a special guest and showed the ways and means of taking preparation for power plant/govt job examinations. **Mr. Khan Rahmat Ullah**, former AP of GUB (Attending from University of New South Wales (UNSW), Australia) was present in the session as another Special Guest. He focused on the ways and means of Higher study.

Program Coordinators of Day and Evening, and almost all the lecturers, and aspiring students (CGPA below 03.00 till spring 2020 semester) of the EEE department both city and permanent campus were present in the program. In the program, the discussion focuses on student feedback, ways and means to improve the overall class performance, what additional skill sets they should focus on, how they can prepare themselves as effective and influential ambassadors of the university in the market, and related other topics. Around 80 students attended the program who enjoyed the seminar and participated in the Question & Answer session later.

Some Photographs:



A webinar on "Overcoming Challenges of Science Education in Higher Secondary Level During Pandemic Condition"

Date of the event: 25th November, 2020

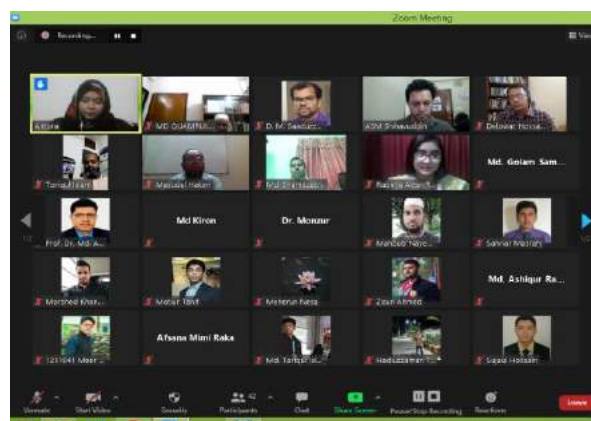
Short Description:

The Department of EEE, Green University of Bangladesh, hosted a webinar on "**Overcoming Challenges of Science Education in Higher Secondary Level During Pandemic Condition**" at **07:00 PM** on **25 November 2020**. The webinar started with an introductory speech from our honorable chairperson. He thanked all participants for giving his valuable time to make this webinar possible.

A large number of honorable teachers from different colleges had participated in this seminar. Among them, **Delowar Hossain Mridha** (Vice Principal, Dhaka Imperial College), **Masudul Hakim** (Assoc. Professor, RAJUK College), **Md Khairul Islam** (Lecturer, Shaheed Bulbul Govt College, Pabna), **Md. Shamiul Alam** (Lecturer, Dhaka Commerce College), **Tasnova Tabassum** (Lecturer, Mymensing Girls Cadet College), **Md Shamsuzzaman Shamim**, **Masuma Begum** had shared their teaching experience during this pandemic situation and their challenges for continuing education activities through an online platform. Their challenges are (i) online assessment (ii) conducting lab class (iii) motivating students and parents for the lab classes (iv) increasing the numbers of students in the class (v) internet facilities. They also shared some initiatives that are taken for the solution to these challenges. Our **honorable Pro VC** sir shared the activities taken by the green university for continuing education for this pandemic situation. He also added that the GUB has taken some initiatives for the improvement of the assessment system.

Prof. Dr. Md. Quamrul Ahsan, Distinguished Professor, Dept. of EEE, Green University of Bangladesh, shared some activities taken by green University for continuing lab classes. He said that the university may allow some students to come to the university to complete their lab classes for three/four days in a semester if UGC allows. He also added that students can continue their lab activities in their house by providing them with some equipment. At the ending moment, a constructive and inspiring speech was delivered by the honorable chief guest, **Prof. Dr. Md. Golam Samdani Fakir**, Vice-Chancellor, Green University of Bangladesh. He summarized his speech in five phases to continue the online teaching and assessment: Adaptability, Communication, out of the box thinking, Self-Development, Internet facility. Then our Honorable Chairperson, Dept of EEE, **Dr. ASM Shihavuddin sir**, has made the concluding remarks.

Some Photographs:



Career Counselling with Inspiring Students of EEE Department.

Date of the event: 29th November, 2020

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

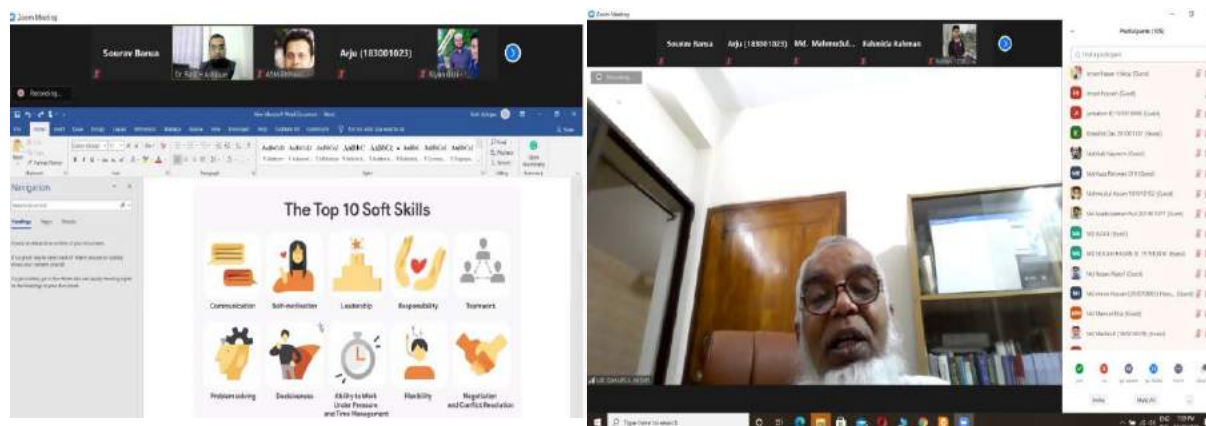
Short Description:

The department of EEE has successfully organized a "**Career counselling program for inspiring students**". Like other semesters, students having good CGPA are invited for this session. There were almost **105 participants** in this session. The session was inaugurated by the session chair and chairperson of the department of EEE, Dr. ASM Shihavuddin. The first speaker of the session **Dr. Ratil H Ashique, Assistant Professor, Dept. of EEE** has explained and motivated the students to follow the soft skills which are required for them to practice for future career development. The program coordinator of the permanent campus **Mr. Sourav Barua, Lecturer, Dept. of EEE** has illustrated the importance of learning each and every course and suggested to gain the basic knowledge of every course which will be advantageous for them in their upcoming courses of the final year. The special guest of the evening **Mr. Mahmud Hasan (Information cadre, 38th BCS)** has accelerated the session with his powerful speech. The entire EEE dept. including the students are very grateful to the invited speaker for taking out his 20 minutes of valuable time for and describing the preparation for the government. job exams. More than 10 students asked questions to our special guest and he entertained those very decently.

The chief guest of the Program Distinguished professor and advisor of the dept. **Professor Dr. Md. Quamrul ahsan** has adorned the session with his presence. He has appreciated the high performing students for their efforts to perform tremendously in this online education platform and anticipated them to extend their helping hand to their classmates who are having problems to attend the classes and to understand the complex problems.

At the end of the session, **Dr. ASM Shihavuddin** has made a concluding speech. In his voice, He has emphasized the students to set the goal at the very beginning of their career. The chairperson has strongly encouraged the students to become a great example of Green university's successful graduates. He also advised the students to abide by the social capitals set for them, till the end of their graduation.

Some Photographs:



Online quiz competition in College level titled ‘Battle of Brains-College Edition’

Date of the event: 5th & 6th December, 2020

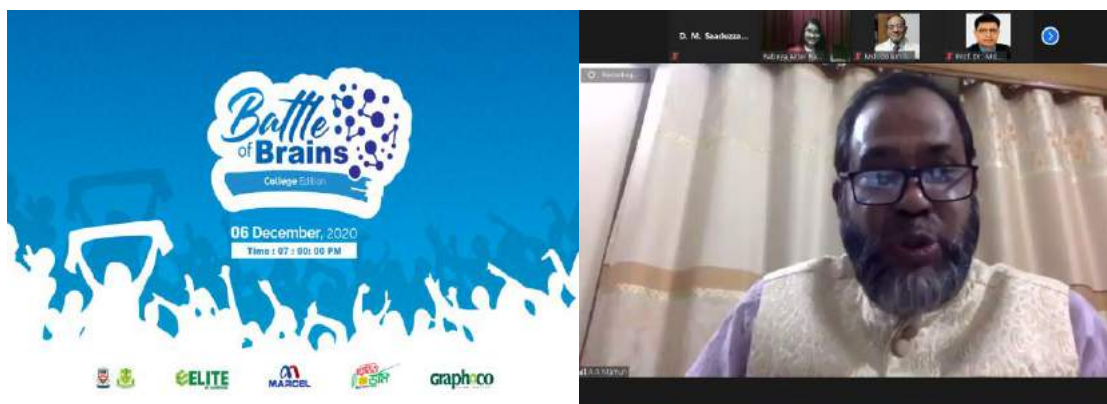
Short Description:

The Department of Electrical and Electronic Engineering of the Green University of Bangladesh arranged this year's biggest online quiz competition in College level titled ‘Battle of Brains- College Edition’ powered by Elite Air Conditioner and Marcel on 5th and 6th December, 2020. This was the brainchild of the prescient and dynamic chairperson of the EEE department, Dr. ASM Shihavuddin, who thought that a quiz competition in these trying times of the COVID-19 pandemic would motivate the young learners of our country in science and technology. This was clearly visible as 1075 participants from 336 institutions registered for the event with great

enthusiasm. The event started at 7.00 pm on 5th December. All the participants were distributed into three ZOOM meeting rooms.

The program started with the introduction and the rules and regulations of the program. A trial run started from 7.20 pm to better acquaint the participants with the 'Kahoot' app to give the answers. After the trial round, the First Battle started at 7.40 pm. There were 30 questions in the first round covering Math, Physics, Chemistry, ICT and English. The top 33 participants with the highest marks from each of the ZOOM meeting rooms were selected for the Final Battle on the 2nd day (The Main event). On 6th December the program started at 7.00 with the promo of EEE day. Prof. Md. Golam Samdani Fakir, Prof Dr. Md. Abdur Razzaque, Prof. Dr. Md. Quamrul Ahsan and Prof Dr. A A Mamun (Enlisted among top 2% scientists of the world) adorned the program with their presence and gave inspiring speeches to the participants.

Faculty members from other departments were also present in the main event. The Final Battle started at 7.35 pm. After battling out for another 30 minutes we got our Top 3. They won a total of 20k BDT in prize money and were each given a certificate. Mohammed Sadman Adib, from Notre Dame College, was placed 1st and got Prize money of 10k BDT. Shahol Shahriar from Carmichael College, Rangpur and Juthi Hira from Government Bangabandhu College were consecutively the 1st and 2nd runner ups. 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 times due to the COVID-19 pandemic. Radio Bhumi 92.8 FM was the Media partner and Graphico was the Creative Partner of this huge event. I am attaching some snaps of this event for you to enjoy.



EEE Club Activities

Career Talk on ICT organized by EEE Club

Date of the event: 24th February, 2020

Venue: City Campus, (R#A-502)

Chief Guest: Dr. ASM Shihavuddin, Chairperson, Department of EEE

Short Description:

GUB EEE Club has successfully hosted a **Career Talk on ICT** on 24th February 2020 at A-502. This ICT talk was conducted by **Bangladesh Open Source Network (BdOSN)**. BdOSN is well regarded for their contribution in promoting Science, Technology, Engineering, and Mathematics (STEM) education among children, and youth, and advocating women's greater inclusion in the ICT sector. The Resource Person for ICT Talk was **Redwan Ferdous** (Lead Engineer & Coordinator, Cell Phone Manufacturing Factory, Aamra Companies; Country Representative, World Robot Olympiad (WRO) in Bangladesh) and **Mostofa Hasan Munna** (CEO- Selenia Technology). **Dr. ASM Shihavuddin**, Chairperson, Department of EEE was present as the session chair of the program. The event became enriched by the presence of **Dr. Md. Fayzur Rahman** (Professor, Department of EEE), **Dr. Ahmed Al Mansur** (Associate Professor, EEE), **Shahriar Mahmud Kabir** (Associate Professor, EEE), **D. M. Saaduzzaman**, lecturer, EEE; **Md Ashiqur Rahman**, lecturer, EEE. More than **100** students from different Departments of our University participated in this program.

Some Photographs:



Higher studies abroad for engineering students

Date of the event: 5th May, 2020 using **ZOOM Online**

Chief Guest: The Chairperson of the Dept of EEE, Dr. ASM Shihavuddin

Short Description:

A seminar titled '**Higher studies abroad for engineering students**' was organized by EEE club of Green University of Bangladesh on **May 05, 2020 (Tuesday) at 12:00 PM by using ZOOM online**. The seminar was conducted by **Mr. Masum Hossen**, Lecturer, Dept. of EEE.

The seminar focused on the importance of pursuing higher education for engineering students. The speaker also shed light on the available options for studies in foreign universities. He also discussed the qualifications and skills necessary for students to undertake postgraduate education. The speaker also shared some success stories of some EEE and CSE graduates of GUB who are currently pursuing their Masters and PhD in various reputed universities abroad. The session was highly encouraging for the participating students. The seminar also included a group discussion and Q&A session between the participants and the speaker. In the Q&A session, some Ex-GUBians from different parts of the world (Germany, South Korea, Canada, and Malaysia) who are currently pursuing their Masters and PhD in various reputed universities abroad shared their experience. Additionally, One of our ex-faculty members **Mr. Khan Rahmat Ullah** (PhD Research fellow, UNSW, Australia) enlightened the session by his constructive suggestions, advice regarding the importance of research for higher studies, some tricks & tactics related to application and much more. The event was a large gathering of 80 plus participants from different disciplines of GUB.

The Chairperson of the Dept of EEE, Dr. ASM Shihavuddin was present at the seminar as Chief Guest. Assistant Professors Shahriar Mahmud Kabir and Md. Hasan Maruf was also present as guests.

Photograph:



Orientation program of the department of EEE for the freshers of “Summer 2020”

Date of the event: 5th July, 2020

Chief Guest: Vice Chancellor Prof. Dr. Md. Golam Samdani Fakir

Short Description:

The orientation program of the department of EEE for the fresher's of “Summer 2020” semester has been successfully organized by EEE Club on 5th July, 2020 at Zoom-video conferencing platform. The orientation ceremony has been started with the recitation of the Holy Quran. At the beginning, respected moderator of EEE Club, **Shahriar Mahmud Kabir** (Assistant Professor, Dept. of EEE) delivered his speech for the fresher's. He has welcomed the fresher's in the dept. and in the EEE Club. Besides, he has elaborated the activities of the EEE club in recent years. Then, a newly admitted student has expressed his feelings about taking admission in the second largest dept. of GUB. A member of EEE alumni Association has narrated the glory and his personal achievements from the department. The Honorable Vice Chancellor, **Prof. Dr. Md. Golam Samdani Fakir** has adorned the orientation Ceremony with his gracious presence and motivational speech to the fresher's. The vice chancellor of GUB has addressed the challenges of participating online classes in this pandemic situation and encouraged the students to overcome the barriers of participating in online classes to facilitate themselves along with faculty members. He has also emphasized that adopting an online education system through learning management systems and proper utilization of class conduction platforms can assist us to attain the goals of industrial 4.0 revolution.

Dr. Ahmed Al Mansur (Associate Professor and Program Coordinator) has illustrated the program coordination tasks of the dept. and acquainted all the program coordinators with the fresher's. A session named “*Job perspectives and higher study opportunities of EEE graduates*” has been enjoined by the former Assistant professor of the dept. **Mr. Khan Rahmat Ullah** who has attended from the University of New South Wales (UNSW), Australia. The program has received its highest response from the audience when the distinguished professor and advisor of the dept, **Professor Dr. Md. Quamrul Ahsan** and Honorable treasurer & Former chairman of EEE dept. **Professor Dr. Md. Fayzur Rahman** sir has taken over their respective sessions. Both of them have instructed and advised the students about acquiring knowledge rather than good grades and become a skilled professional engineer. Professor Dr. Fayzur Rahman sir has also introduced different aspects of outcome based education system and mentioned the benefits of lifelong learning.

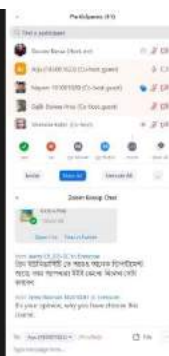
At the last session, Honorable chairperson, Dept. of EEE, **Dr. ASM shihavuddin** gave an energetic speech. Through his speech, he has ensured to serve the students with the best quality of education and anticipated their active participation in facilitating the teaching-learning process in the newly started online semester. He has thanked the organizers, faculty members, guests and students for making this online orientation program a successful event as well.

Honorable chairperson, Dept. of EEE, **Dr. ASM Shihavuddin**, has chaired the program with Distinguished **Professor Dr. Md. Quamrul Ahsan** and respected treasurer **Professor Dr. Md.**

Fayzur Rahman, Honorable Vice Chancellor, **Prof. Dr. Golam Samdani Fakir** was the chief guest.

The program has been ended by the introduction of the EEE club members & committees and a cultural program performed by the students of EEE club.

Photos of the program:



Seminar on “The basics of robotics to assist the speed of progression”

Date of the event: 25th August, 2020

Short Description:

A seminar arranged by the students of EEE Club on “**The Basics of Robotics to speed up the progression**” had been successfully held on 24th August in zoom platform. Around 118 participants joined the seminar. The distinguished professor and advisor of EEE dept. **Prof. Dr. Md. Quamrul Ahsan** inaugurated the Seminar. The keynote speaker **Meer Shadman Shafkat Tanjim** commenced the seminar with a great rhythm and enthusiasm. In his presentation, the keynote speaker has elaborated the following topics like Robotics and its purpose, robot types, segments to be analyzed to start robotics, vital selections, segment integration, software collaboration, feature re-analysis and deployment, system debugging and upgradation, final

packaging etc. The speaker also motivated the students to work hard if they want to enroll in their final year project on robotics and keep patience while working together. He also answered all the queries of the participants on seminar topics and committed to extend his helping hand if the students need any assistance in their robotics projects.



Enlightened and ascending graduates of GUB EEE family

Date of the event: 28th August, 2020

Short Description:

The first program named “*Enlightened and Ascending Graduates of GUB EEE family*” was held in a joyful environment via zoom platform. Around 42 participants joined the program among which 15 persons were alumnae of the EEE Dept. The Program was begun by the Honorable treasurer and former chairperson of the Dept. of EEE **Professor Dr. Md. Fayzur Rahman**. In his speech, Dr. Fayzur Rahman explained the goal and aim of a successful alumni association. He also elaborated that how EEE alumni association can become a strong community to maintain the bridge between the graduates and present students. At the end of his speech, he thanked the EEE alumni members to take out their time for joining the program. The keynote speaker **Engr. Rafiqddoullah** also gave a motivational speech for our final year students who will complete their graduation by this time and apply for professional jobs. Remembering his struggling moments and hard days of study, he encouraged the students to prepare themselves for seeking jobs in the engineering sector as companies are looking for experts in recent times and also promised the students to extend his assistance if required.

Another Keynote speaker, **Engr. Saiful Islam** also narrated his long time professional experience in engineering job sector. He added that the real battle of a graduate engineer starts after his graduation when he searches for a job in his desired job sector. He advised the students that "Taking preparation for the government job is quite different and students need to make a feasible lesson plan for the written exam". Both the keynote speakers also requested the attended Alumnae to make the EEE Alumni Association strong, proactive and an eminent community for the benefits of the students of green university.

Finally, the session chair of the program **Dr. ASM Shihavuddin**, chairperson, Dept. of EEE, had concluded the session. In his speech, the honorable chairperson has advised the EEE alumni members to continue their activities for the greater significance of the university as well as EEE dept. He also urged the members of the EEE alumni to seek for some proactive members to make the community large and arrange some programs on a yearly basis.

Green University

Enlightened and Ascending Graduates of GUB EEE Family

(Post 'Eid Reunion and open discussion on engineering job sector for future graduates)

Date & Time: 20th August, 2020 (8:30 pm)

Session Chair

Dr. ASM Shihavuddin
Chairman & Associate Professor,
Dept. of EEE, Green University.

Guest of Honor

Prof. Dr. Md. Quamrul Ahzan
Distinguished Professor & Advisor
Dept. of EEE, Green University.

Prof. Dr. Md. Fayzur Rahman
Treasurer, Green University of
Bangladesh
Former chairman, Dept. of EEE, GUB

INVITED SPEAKERS

Mr. Rafiqul Hossain
Procurement Manager
Ashugani Power plant Limited,
Bangladesh.

Engr. Saiful Islam
Superintendent Engineer
(Planning & Design)
Ashugani Power plant Limited,
Bangladesh.

<https://bdren.zoom.us/j/61684954129>

Hosted by: EEE Alumni Committee, Dept. of EEE, GUB



Webinar on “space exploration with NASA”

Date of the event: 31st August, 2020

Short Description:

“**Bangladesh Advance Robotics Research Center (BARRC)**” has arranged a webinar on 31 August 2020, titled as “**Space exploration with NASA**”. **Green University, EEE club** worked actively to become the partner in arranging such webinar along with other 28 education partners including BARRC. The guest speaker of the webinar-**George Salazar**, Human-Computer Interface Technical Discipline Lead at NASA’s Johnson Space Center, NASA – National Aeronautics and Space Administration. He has over 35 years of experience in telemetry, communications, speech control, command and data handling, audio, displays, intelligent lighting, project management & systems engineering. He has been involved with the design of advanced telemetry, speech recognition, and intelligent systems of which he has received various patents. He is a senior scientist and engineer of the Human-Computer Interaction Laboratory, JSC Space Center -NASA.

This is for the first time “Bangladesh Advance Robotics Research Center (BARRC)” has launched such a historical event with NASA HQ. All the participants from the **EEE club and students of the dept. of EEE** have successfully attended the webinar, which was really an educative and inspiring for them



IEEE and You

Date of the event: 14th October, 2020

Short Description:

“**IEEE and you**” is the first seminar, which was organized and hosted by **EEE club**. The purpose for arranging this seminar was to explain the mission, vision of IEEE, IEEE societies, IEEE student branches and membership benefits. “**Dr. Ratil H. Ashique**” Assistant Professor, **Dept. of EEE**, was the keynote speaker. EEE Club members were agreed to the keynote speaker

to open IEEE power and energy students branch in Green University of Bangladesh. The IEEE committee of the dept. along with 7 students from the EEE club is going to start the IEEE PES student branch very soon and the events under the students branch has already been set by the mentors and faculty members.

Green University

IEEE AND YOU

A seminar on membership benefits of IEEE and IEEE technical Societies

IEEE is a global network that advances Engineers In Technology

A career in ENGINEERING & TECHNOLOGY IS WAITING FOR YOU.

Date & Time: 7th September, 2020 (Monday) Time: 4:00 pm

Session Chair



Dr. ASM Shihavuddin
Chairman & Associate Professor;
Dept. of EEE, Green University.

Keynote Speaker



Dr. Ratil H. Ashique
Assistant Professor;
Dept. of EEE, Green University.

<https://bdren.zoom.us/j/61685930137>

The IEEE PES Student Branch Chapter Green University of Bangladesh

IEEE PES Power & Energy Society

IEEE

Orientation program of the department of EEE for the fresher's of "Fall 2020"

Date of the event: 14th October, 2020

Short Description:

The orientation program of the department of EEE for the fresher's of "Fall 2020" semester has been successfully organized by EEE Club at **14 October, 2020** at Zoom-video conferencing platform. The orientation ceremony has been started with the recitation of the Holy Quran. At the beginning, respected moderator of EEE Club, **Shahriar Mahmud Kabir** (Assistant Professor, Dept. of EEE) delivered his speech for the freshers. He has welcomed the freshers in the dept. as well as in the EEE Club. Besides, he has elaborated the activities of the EEE club in recent years. Then, two newly admitted students have expressed their feelings about taking admission in the second largest dept. of GUB. A member of EEE alumni Association **Said Hossain, AGM, BREB** has narrated the glory and his personal achievements from the department through his motivational speech.

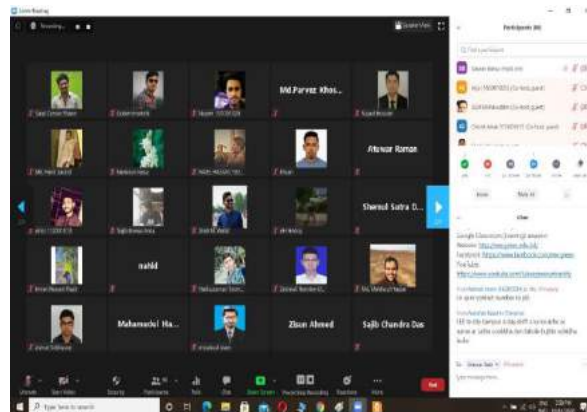
Mr. Shemul Sutradhar (Lecturer and Program Coordinator) has illustrated the program coordination tasks of the dept. and acquainted all the program coordinators with the freshers. A session named "*Job perspectives and higher study opportunities of EEE graduates*" has been

enjoined by the former Assistant professor of the dept. **Mr. Khan Rahmat Ullah** who has attended from the University of New South Wales (UNSW), Australia. The program has received its highest response from the audience when the distinguished professor and advisor of the dept, **Professor Dr. Md. Quamrul Ahsan** and Honorable treasurer & Former chairman of EEE dept. **Professor Dr. Md. Fayzur Rahman** sir has taken over their respective sessions. Both of them have instructed and advised the students about acquiring knowledge rather than good grades and become a skilled professional engineer. Professor Dr. Fayzur Rahman sir has also introduced different aspects of outcome based education system and mentioned the benefits of lifelong learning. Both the professors also suggested the students take care of their mental and physical health to maintain a disease free lifestyle.

At the last session, Honorable chairperson, Dept. of EEE, **Dr. ASM shihavuddin**, gave an energetic speech. Through his speech, he has ensured to serve the students with the best quality of education and anticipated their active participation in facilitating the teaching-learning process in the second online semester of GUB. He has also presented a slide show to demonstrate the achievements of EEE dept. in this challenging pandemic situation to the students. He has thanked the organizers, faculty members, guests and students for making this online orientation program a successful event as well.

Honorable chairperson, **Dept. of EEE, Dr. ASM Shihavuddin**, has chaired the program with Distinguished **Professor Dr. Md. Quamrul Ahsan** and respected treasurer **Professor Dr. Md. Fayzur Rahman**.

The program has been ended by the introduction of the EEE club members & committees and a cultural program performed by the students of EEE club. There were almost **95 participants** during the peak hour of the program.





Virtual Meet the Department Program

The poster for the Virtual Meet the Department Program is displayed. It features a green background with a white speech bubble containing the text "MEET THE Department". Below this, it says "For University Admission Aspirants and their Guardians". The poster also mentions "Talk to the CHAIRPERSON, Faculties, Admission Officials & Students". The event is scheduled for "June 27, 2020 | Saturday, 11:00 am to 1:00 pm". The Green University logo is at the bottom left. On the right side of the poster, there is a vertical strip showing four small video feeds of participants.

MEET THE Department
Department of EEE

For University Admission Aspirants and their Guardians

Talk to the CHAIRPERSON, Faculties, Admission Officials & Students

June 27, 2020 | Saturday
11:00 am to 1:00 pm

Green University

EEE DAY 2020- Never like Before

Date of the event: 11th & 12th December, 2020

Short Description:

Day One:

The first day of “**EEE day 2020 –Never like before**” was successfully completed on 11th December 2020. Some glimpses of Day 1 of this mega event are attached herewith.

Our first program **Inauguration Ceremony** was started with the recitation of a few verses from the Holy Quran and Bhagavad Gita. In the beginning of the program, the chairperson of the EEE department, **Dr. ASM Shihavuddin** welcomed all the guests and participants with a short brief of the program. Then the moderator of EEE club, **Mr. Shahriar Mahmud Kabir** delivered his greeting speech for the audience and presented the schedule of two-day-long EEE Day 2020. 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. Respected treasurer, **Professor Dr. Md. Fayzur Rahman** highlighted the good aspects of online education in this Covid-19 situation and gave inspirational speeches for encouraging the students in their online activities. Our special Guest **Advocate Ziaur Rahman**, Retired advocate, Representative of Citizens open forum (COP) expressed his gratitude to be present here, also focused on the importance of continuing such a program to build up the leadership ability among students. Honorable Pro-VC, **Professor Dr. Md. Abdur Razzaque** delivered his informative speech and highlighted that this type of program can enrich the co-curricular activities of students. The Honorable Vice-Chancellor **Professor Dr. Md. Golam Samdani Fakir** appreciated the chairman and his team for advancing the EEE department through innovative ideas as well as competent leadership. He also mentioned that the EEE department is keeping pace with this new normal situation by following the core values of GUB. The session concluded by thanking all the guests.

The 2nd event was the gaming contest, which started from 11:00 am to 12:00 pm including **Ludo Tuktak, Electric Selfie Mania contest, Talent hunt-Khoj the talent**. Students were so enthusiastic to participate in these different games. More than 1500 students participated in the gaming contest session from different universities. Among them, the 1st position was secured by **Tahmedul Abrar Niloy** from North South University in Ludo Tuktak, **Kabery Sultana** from Jahangirnagar University in electric selfie mania respectively. In **Talent hunt-Khoj the talent** contest 1st position was secured by Shimanto & Prachi and Hafiz Sikder was recognized as an all-rounder of this contest from the Green University Of Bangladesh.

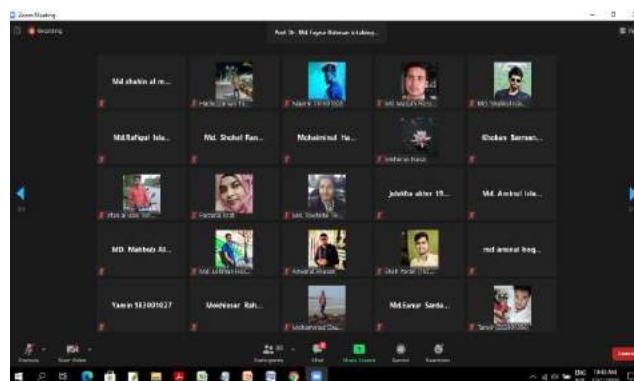
The 3rd exciting game event was the “**PUBG-Khela hobe**” started from 7:00 pm. More than 500 students from different universities participated in the gaming contest. Team “**Assemble**” consisting of 4 members positioned 1st in PUBG -Khela hobe.

To connect with alumni, gain insight into the job market, and start building their professional network, the Dept. of EEE organized an event “**Career Talk and Alumni get together**” from

8:00 to 9:00 pm. Through this event, Alumni students from home and abroad introduced themselves and shared their experiences with current students. 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:

- **Prof. Dr. Md. Quamrul Ahsan**, Distinguished Professor, and Advisor, EEE, GUB.
- **Prof. Dr. Md. Fayzur Rahman**, Professor, EEE, GUB.
- **Khan Rahmat Ullah**, PhD Researcher, University of New South Wales (UNSW), Sydney, Australia
- **Mr. Md. Hasan Maruf** Asst. Professor, EEE, GUB.
- **Mr. Shahriar Mahmud Kabir**, Asst. Professor (Moderator-EEE club), EEE, GUB
- **Dr. ASM Shihavuddin** Associate Professor & Chairperson, EEE, GUB.

The session was chaired by the honorable Chairperson, Dept. of EEE, **Dr. ASM Shihavuddin**. He shared great news about launching a new website for the alumni students to strengthen the bond between them. He also emphasized to build up strong leadership among the alumni so that they can depict their department throughout the world. Speakers broadly discussed some key factors that will help a graduate to choose their career path in a right way. They also focused on issues like higher studies, university ranking, professor profile, job sector in power companies, quality project development at the undergrad level, etc. This one-hour long session ended with a fruitful Q/A session.





Day Two:

The closing day of “EEE day 2020 –Never like before” was successfully completed on 12th December 2020.

The day started with the Greentech Virtual Vision 2020 (Poster presentation) event. Teams from different universities participated in this event. In the beginning of the program, the chairperson of the EEE department, Dr. ASM Shihavuddin, inaugurated the program with a welcome speech. Then the deputy moderator of EEE club, Mr. Sourav Barua delivered his greeting speech for the audience and presented the outline of the session. Many participants took part in the event and presented their ideas beautifully in front of a judge panel. Each participant was allocated 7 minutes for their ideas with an additional 3 minutes for answering questions from the Judge panel. The members of the Judge Panel were:

1. Dr. Ratil H Ashique, Assistant Professor, Dept. of EEE, GUB
2. Md. Shahriar Mahmud Kabir, Assistant Professor, Dept. of EEE, GUB
3. Mr. Sourav Barua, Lecturer and Program, Coordinator, Dept. of EEE, GUB
4. Mr. Meer Shadman Shafkat Tanjim, Lecturer, Dept. of EEE (External), European University of Bangladesh

They gave their fruitful judgment and inspirational comments on poster presentations to motivate the participants to build up their innovative thoughts and ideas. Some groups were awarded for their outstanding projects whereas Sajib Biswas and Abu Raihan secured first position from EEE department of GUB.

The 2nd session of the EEE day was a webinar entitled "Smart Grid in Bangladesh: Prospects and Challenges " organized by IEEE PES SBC GUB which started from 1:00 pm. Distinguished Professor & Advisor, Dept. of EEE, Dr. Md. Quamrul Ahsan welcomed the guests and talked about the advantage of arranging such type of webinar will be highly beneficial for both students and faculty members. The keynote speaker Dr. Md. Abdur Razzak, Professor of Department of EEE, Independent University of Bangladesh highlighted the infrastructural difference between

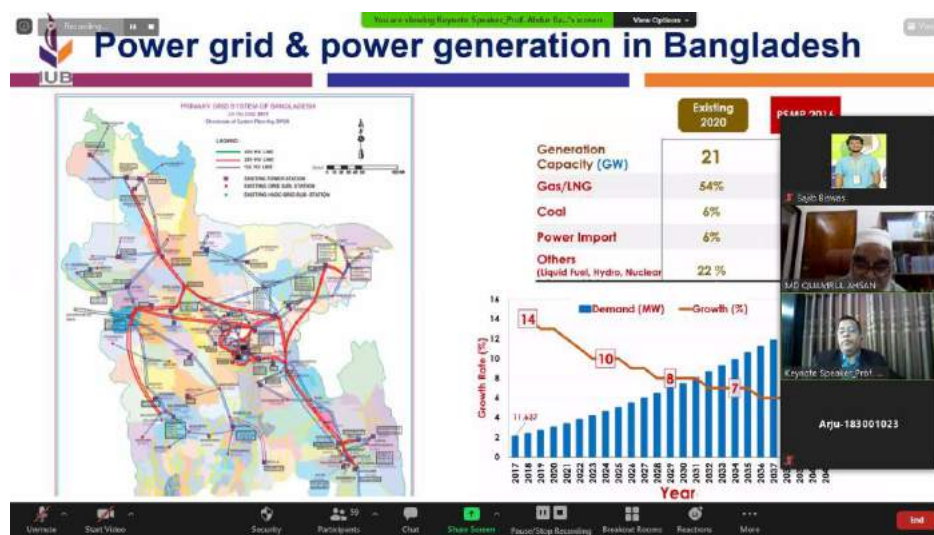
the conventional power grid and smart grid. He also mentioned the prospects and challenges in the implementation of smart grid in Bangladesh. The Chief Guest Major General Moin Uddin, Chairman of BREB, adorned us with his valuable presence. He discussed the scopes and opportunities to convert the power grid of Bangladesh to the Smart Grid.

The 3rd event was the Seminar on “Career prospects in EEE” successfully carried by Khan Rahmat Ullah, PhD Researcher, University of New South Wales (UNSW), Sydney, Australia. Through this event students from home and abroad introduced themselves and shared their experiences with current students. In the presence of honorable guests, an open discussion about career paths in different sectors was held with students. The keynote speaker broadly discussed some determining factors that will help a graduate to choose their career path in a right way. He also focused on issues like higher studies, university ranking, professor profile, job sector in power companies, quality project development at the undergrad level, etc. This session concluded with a fruitful Q/A session.

The 4th and final event of the day was titled "Industrial Job Fair" which started at sharp 3:30 pm. The main purpose of the event was to raise awareness regarding job issues among the students of the EEE department. Some leading companies named Sarens Bangladesh Private Ltd, Momoda Foundation, Solar Tie Ltd., Project Management & Engineering consultant (ProMEC), Bangladesh steel re-rolling mills limited, etc. participated in this event. They gave a sharp guideline on how to make a standard CV and to be prepared for a job interview.

The prize-giving ceremony started at 5:30 pm with the recitation of a few verses from the Holy Quran and Bhagavad Gita. The deputy moderator of EEE Club Mr. Sourav Barua expressed his gratitude and thanked the Keynote speakers of the seminars, Judges of contests, EEE Alumni Association members and Companies attended the job fair event. Professor Dr. Md. Quamrul Ahsan stated that the EEE department has reached a new platform by organizing different online events. Prof. Dr. Md. Fayzur Rahman appreciated the participation of foreign students in different events that will reach our event as an international level. Mr. Md. Noor Alam, Deputy Managing Director, Elite Hi-tech Industries Limited expressed his joy to be present here and praised the active activities of EEE department despite the pandemic situation. Honorable Pro-Vc, Prof. Dr. Md. Abdur Razzaque delivered a spiritual and informative speech to the audience. He referred to some suggestions for students to be active learners in online education. He shared his experience of such successful online event management will be beneficial for the university to arrange the next big event STI-2020. The Honorable Vice-Chancellor Professor Dr. Md. Golam Samdani Fakir thanked everyone and mentioned that the EEE department plays a leading role in this new normal situation. 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 2020.

Finally, the EEE club Committee announced the name of the winners of different segments of the two-day-long program by providing E-certificates. The program concluded with the closing speech of the chairperson of the EEE department.



Awards and Achievements

- **Team Shongrami became champion in Bangabandhu GUDC Debater Hunt 2020**

Date of the event: 5th March, 2020

Venue: IQAC Auditorium and Green seminar hall 502

Chief Guest: Vice Chancellor Prof. Dr. Md. Golam Samdani Fakir

Short Description:

Green University Debating Club (GUDC) has successfully organized a debate competition titled "**Bangabandhu GUDC Debater Hunt 2020** " on 5th March, 2020 at IQAC Auditorium and Green seminar hall 502. There were more than 120 participants from different departments of Green University of Bangladesh.

The Champion Team was: "Team Songrami "

The Team members were:

- (1) Rakibul Jannat
- (2) Mahmud Hasan
- (3) Anik Sarkar Joy

Our Honorable Vice Chancellor Prof. Dr. Md. Golam Samdani Fakir sir, Pro Vice Chancellor Prof. Dr. Md. Abdur Razzaque sir and our Treasurer and Director of Student Affairs Md. Shahid Ullah sir were presided over the program. Both The Moderator Mr. **Hasan Al Zubayer Rony & Deputy Modaretor Ms . Jemima Jahan Meem** were facilitated the program.

The President, General Secretary and other EC members of GUDC were also present in the competition.

The honorable chairperson of the Department of EEE, **Dr. ASM Shihavuddin** congratulate the champion team.



- **Student was in top position in nationwide online quiz competition in University level titled ‘Battle of Brains’**

- A student (Hasibul Hasan Rahim, Students ID: 201001176) of EEE department was in 9th position in the competition.
- He also scored highest mark from students of all private University.



- The EEE dept. was the first in Bangladesh to arrange an online faculty meeting via the ZOOM platform.
- Research Interest Mapping has been created for faculty members.
- EEE department was first one who started Online seminar by a seminar entitled “Future of Nuclear Energy - Do Ternary Fission Reactions hold the key” by Dr. Md Ashaduzzaman, Assistant Professor of the department.
- The Nationwide Mega contest “Battle of Brains” was first started by the department.
- Started Video making of Laboratory Experiments and 8 new Lab under construction.
- IEEE Power and Energy Society (PES) Student Branch Chapter has been established which is 5th PES society in Bangladesh.
- Dr. ASM Shihavuddin (Chairman and Associate Professor of the department) has achieved senior membership of IEEE
- Formation of Center of Research on Renewable and Sustainable Energy systems.
- ICT research grant was received by Dr. Ahmed Al Mansur (Associate Professor of the department) for a project regarding increasing solar panel efficiency.
- Prof. Dr. Fayzur Rahman (Professor of the EEE department) has become the best researcher in last semester with 5 publications totaling 15+ impact factor.
- Worldwide contest “DHAKA-AI” was organized by the department where around 250 teams joined the competition.

Achievements of Faculty Members & Students

- ❖ Collaborative supervision of **10 groups** with **4 supervisors** - Hybrid system-based megaproject
- ❖ OBE preparation - syllabus, capstone project, CO, PO, course profile, etc
- ❖ 3 members at the **central OBE committee**
- ❖ In **CETL, GUB** - 2 master trainers and the **director**
- ❖ **8 PhD faculty**, 3 under completion among 47+ faculty members

- Establishment of Artificial Sun Simulator Patent No. 244 of 2020.



- Job success rate of students of the Department:



Research Publications

Name of Faculty Member(s)	Title of Publication(s)	Name of Journal(s)/Book(s)	ISSN/ISBN No./Indexation	References
Dr. Md. Quamrul Ahsan	Reliability models of LILO connection and impact on transmission corridor	International Transactions on Electric Energy Systems	Online ISSN: 2050-7038	[1]
	The concept of material transfer from one place to other at the speed of light and reducing causes of earthquake: developed based on the hints of Quranic verses	QURANICA - International Journal of Quranic Research	ISSN 2289-5396, eISSN 2590-4167	[2]
	Korane Bornito Farayez Babosta (Laws of Inheritance revealed in the Quran)	Media Plus, Elephant Road, Dhaka		
Dr. Md Fayzur Rahman	Advanced Switching Technique Based High Frequency Magnetic Linked Asymmetric Multistring Inverter with Reduced THDs	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[3]
	Performance Evaluation of Cascaded and Reduced Switch Multilevel Inverter Using Modified Carrier Based PWM Technique	GUB Journal of Science and Engineering (GUBJSE)	Vol 7, No 1, December 2020	[4]
	Hybrid Solar PV/Biomass Powered Energy Efficient Remote Cellular Base Station	International Journal of Renewable Energy Research	Scopus and Ebsco indexed Online ISSN:1309-0127	[5]
	Solar PV and Biomass Resources Based Sustainable Energy Supply for Off-Grid Cellular Base Stations	IEEE Access (Multidisciplinary Open Access Journal)	ISI indexed	[6]
	Techno-Economic and Energy Efficiency Analysis of Optimal Power Supply Solutions for Green Cellular Base Stations	IEEE Access (Multidisciplinary Open Access Journal)	ISI indexed	[7]
	A Novel Asymmetric Multilevel Inverter with Phase Disposed switching Technique for Grid Integrated Solar Photovoltaic System	IEEE TENSYP 2020, 5-7 June,	IEEE international conference 2020, Dhaka, Bangladesh	[8]
	Performance Comparison of Asymmetric Seven Level Inverter for Solar Photovoltaic Systems	2nd ICAICT organized by UIU	IEEE International Conference_2020, Dhaka, Bangladesh	[9]
	Towards Energy Efficient Load Balancing for Sustainable	IEEE Access (Multidisciplinary	Pages:1-20, Print ISSN: 2169-	[10]

	Green Wireless Networks under Optimal Power Supply	Open Access Journal)	3536, Online ISSN:2169-3536 DOI:10.1109/ACCESS SS .2020.3035447	
	Multiobjective Optimum Design of Hybrid Renewable Energy System for Sustainable Energy Supply to a Green Cellular Networks,	MDPI Journal of Sustainability Switzerland Science Citation Index Expanded and Scopus indexed	2020, 12, 3536; doi:10.3390/su12093536	[11]
Dr. ASM Shihavuddin	Temperature profiling of human-eye's 2d model to study the fluid dynamics of aqueous humor	GUB JOURNAL OF SCIENCE AND ENGINEERING	Vol 7, No 1, December 2020	
	Investigation of PV Modules Electrical Characteristics for Laboratory Experiments using Halogen Solar Simulator	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[12]
	Experimental investigation of PV array interconnection topologies at nonuniform aging condition for power maximization	GUB Journal of Science and Engineering (GUBJSE)	Vol 6, No 1, December 2019	[13]
	Greenotyper: Image-based plant phenotyping using distributed computing and deep learning	Frontiers in Plant Science	https://doi.org/10.3389/fpls.2020.01181	[14]
	Enhanced Energy Savings in Indoor Environments with Effective Daylight Utilization and Area Segregation	Symmetry	https://doi.org/10.3390/sym12081313	[15]
	Adaptation for sustainable implementation of Smart Grid in developing countries like Bangladesh	Energy Reports	https://doi.org/10.1016/j.egyr.2020.09.010	[16]
	AQUADA: Automated Quantification of Damages in Composite Wind Turbine Blades for LCOE Reduction	Wind Energy	https://doi.org/10.1002/we.2587	[17]
	A concept for human-cyber-physical systems of future wind turbines towards Industry 5.0	TechRxiv	https://www.techrxiv.org/articles/preprint/A_concept_for_human-cyber-physical_systems_of_future_wind_turbines_towards_Industry_5_0/13106108/1	[18]
	A Novel Family of Class EF _{nm} and E/F _{nm} Inverter for Improved Efficiency	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[19]

	Food Depth Estimation Using Low-Cost Mobile-Based System for Real-Time Dietary Assessment.	GUB Journal of Science and Engineering (GUBJSE)	Vol 6, No 1, December 2019	[20]
	A Class E/F3 based 10W LED Driver with ZVS Capability	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[21]
	Parametric Image-based Breast Tumor Classification Using Convolutional Neural Network in the Contourlet Transform Domain	The 11th International Conference on Electrical and Computer Engineering	ICECE 2020	[22]
	Determination of Initial Projectile Velocity in the Presence of Static Fields Using Deep Actor Critic Method	The 11th International Conference on Electrical and Computer Engineering	ICECE 2020	[23]
	DeepThin: A Novel Lightweight CNN Architecture For Traffic Sign Recognition Without GPU Requirements	Expert Systems With Applications	ISSN: 0957-4174	[24]
	Sequential Transfer Learning based on Hierarchical Clustering for improved performance in Deep Learning based food segmentation	Nature Scientific Reports	ISSN 2045-2322	[25]
Dr Ahmed Al Mansur	Enhanced Energy Savings in Indoor Environments with Effective Daylight Utilization and Area Segregation	Symmetry	https://doi.org/10.3390/sym12081313	[15]
	Adaptation for sustainable implementation of Smart Grid in developing countries like Bangladesh	Energy Reports	https://doi.org/10.1016/j.egy.2020.09.010	[16]
	Investigation of PV Modules Electrical Characteristics for Laboratory Experiments using Halogen Solar Simulator	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[12]
	Experimental investigation of PV array interconnection topologies at nonuniform aging condition for power maximization	GUB Journal of Science and Engineering (GUBJSE)	Vol 6, No 1, December 2019	[13]
Dr. Ratil H Ashique	A review of high efficiency non-isolated DC-DC power converters for electric vehicle charging application	GUB Journal of Science and Engineering (GUBJSE)	2409-0476.	[26]
	A Class E/F3 based 10W LED Driver with ZVS Capability	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[21]

	A Novel Family of Class EF _{nm} and E/F _{nm} Inverter for Improved Efficiency	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[19]
	Development of Home Automation System by Using Brain Wave	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[27]
	High Speed Tracking with Machine Intelligence		IEEE HONET 2020, USA	[28]
	A review of high efficiency non-isolated DC-DC power converters for electric vehicle charging application	GUB Journal of Science and Engineering (GUBJSE)	2409-0476.	[26]
	A Class E/F ₃ based 10W LED Driver with ZVS Capability	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[21]
	A Novel Family of Class EF _{nm} and E/F _{nm} Inverter for Improved Efficiency	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[19]
	Development of Home Automation System by Using Brain Wave	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[27]
	High Speed Tracking with Machine Intelligence		IEEE HONET 2020, USA	[28]
Md. Hasan Maruf	Temperature profiling of human-eye's 2D model to study the fluid dynamics of aqueous humor	GUB JOURNAL OF SCIENCE AND ENGINEERING	Vol 7, No 1, December 2020	
	Enhanced Energy Savings in Indoor Environments with Effective Daylight Utilization and Area Segregation	Symmetry	https://doi.org/10.3390/sym12081313	[15]
	Adaptation for sustainable implementation of Smart Grid in developing countries like Bangladesh	Energy Reports	https://doi.org/10.1016/j.egy.2020.09.010	[16]
	Investigation of PV Modules Electrical Characteristics for Laboratory Experiments using Halogen Solar Simulator	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[12]
	Experimental investigation of PV array interconnection topologies at nonuniform aging condition for power maximization	GUB Journal of Science and Engineering (GUBJSE)	Vol 6, No 1, December 2019	[13]

	A Novel Family of Class EF _{nm} and E/F _{nm} Inverter for Improved Efficiency	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[19]
	Food Depth Estimation Using Low-Cost Mobile-Based System for Real-Time Dietary Assessment.	GUB Journal of Science and Engineering (GUBJSE)	Vol 6, No 1, December 2019	[20]
Shahriar Mahmud Kabir	Parametric Image-based Breast Tumor Classification Using Convolutional Neural Network in the Contourlet Transform Domain	The 11th International Conference on Electrical and Computer Engineering	ICECE 2020	[22]
	Determination of Initial Projectile Velocity in the Presence of Static Fields Using Deep Actor Critic Method	The 11th International Conference on Electrical and Computer Engineering	ICECE 2020	[23]
Dr. A. A. Md. Monzur-Ul-Akhir	Performance Evaluation of Cascaded and Reduced Switch Multilevel Inverter Using Modified Carrier Based PWM Technique	GUB Journal of Science and Engineering (GUBJSE)	Vol-6, Issue 1, December 2020	[4]
	A double-key based encryption-decryption process for stronger secured message transactions	GUB Journal of Science and Engineering (GUBJSE)	Vol-6, Issue 1, December 2020	[29]
	Performance Comparison of Asymmetric Seven Level Inverter for Solar Photovoltaic Systems	2nd ICAICT organized by UIU	IEEE International Conference_2020, Dhaka, Bangladesh	[9]
	A Car-bot Waiter for Providing Services of Restaurants to limit Human in Pandemics like COVID-19	Journal of Recent Trends in Information Technology and its Application	Volume 3, issue 3, December, 2020	[30]
Dr. Md. Ashaduzzaman	Energy Distributions of Fragments Produced by Simultaneous Ternary Fission	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[31]
	Decay nature of radionuclide released from a hypothetical accident of TRIGA MARK-II research reactor	GUB JOURNAL OF SCIENCE AND ENGINEERING	Vol 7, No 1, December 2020	
	Using γ -rays to disentangle Fusion-Fission and Quasi-Fission near the Coulomb barrier: a test of principle in the Fusion-Fission and Quasi-Elastic channels	Physical Review C	ISSN: 2469-9985 (print) ISSN: 2469-9993 (online) Indexation: SCI	[32]
	Features of the fission fragments formed in the heavy ion induced $^{32}\text{S}+^{197}\text{Au}$ reaction near the interaction barrier	European Physical Journal A	ISSN: 1434-6001 (print); ISSN: 1434-601X (web) Indexation: SCI/SCOPUS	[33]

	Fission and Quasi-Fission dynamics near the coulomb barrier: γ -rays as probe for their timescale	Exotic Nuclei (World Scientific Publishing)	ISBN: 978-981-120-944-4 (print) ISBN: 978-981-120-946-8 (web)	[34]
Zisun Ahmed	Performance Evaluation of Cascaded and Reduced Switch Multilevel Inverter Using Modified Carrier Based PWM Technique	GUB Journal of Science and Engineering (GUBJSE)	Vol 7, No 1, December 2020	[4]
	Conductance Interplay in Ion Concentration Polarization across 1D Nanochannels: Microchannel Surface Shunt and Nanochannel Conductance	Analytical Chemistry	Vol 92, No 1, January 2020	[35]
D. M. Saaduzzaman	Energy Distributions of Fragments Produced by Simultaneous Ternary Fission		STI 2020	[31]
	Food Depth Estimation Using Low-Cost Mobile-Based System for Real-Time Dietary Assessment.	GUB Journal of Science and Engineering (GUBJSE)		[20]
Mohammad Asif ul Haq	Enhanced Energy Savings in Indoor Environments with Effective Daylight Utilization and Area Segregation	Symmetry	https://doi.org/10.3390/sym12081313	[15]
	Adaptation for sustainable implementation of Smart Grid in developing countries like Bangladesh	Energy Reports	https://doi.org/10.1016/j.egy.2020.09.010	[16]
	Investigation of PV Modules Electrical Characteristics for Laboratory Experiments using Halogen Solar Simulator	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[12]
	Experimental investigation of PV array interconnection topologies at nonuniform aging condition for power maximization	GUB Journal of Science and Engineering (GUBJSE)	Vol 6, No 1, December 2019	[13]
	A Novel Family of Class EF _{nm} and E/F _{nm} Inverter for Improved Efficiency	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[19]
Ashraf Siddiquee	Real-Time American Sign Language Recognition Using Skin Segmentation and Image Category Classification with Convolutional Neural Network and Deep Learning		TENCON 2018 - 2018 IEEE Region 10 Conference	[36]
	Energy Harvesting by Using Piezoelectric Material into the Key of a Prototype Keyboard		International Conference on Mechanical, Industrial and Materials Engineering 2019 (ICMIME2019)	[37]

	Automatic Synchronization of a Newly Installed Generator to Infinite Bus of Bangladesh Power System		2019 International Conference on Sustainable Technologies for Industry 4.0 (STI)	[38]
	Design of Twenty-One Level Modular Multilevel Converter Using a Three-level Submodule Block		1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)	[39]
Md. Ashiqur Rahman	Steady-State Thermophysical Simulation of a 3D CAD Model of Human-Eye	IEEE Region 10 Symposium (TENSYP)	IEEE international conference 2020, Dhaka, Bangladesh	[40]
	Temperature profiling of human-eye's 2D model to study the fluid dynamics of aqueous humor	GUB JOURNAL OF SCIENCE AND ENGINEERING	Vol 7, No 1, December 2020	
Mahbubur Rahman Kiran	Electrical Power Generation from the Oceanic Wave for Sustainable Advancement in Renewable Energy Technologies	Sustainability Journal	https://doi.org/10.3390/su12062178	[41]
	Progress in Piezoelectric Material Based Oceanic Wave Energy Conversion Technology	IEEE ACCESS JOURNAL	10.1109/ACCESS.2020.3015821	[42]
	Characterization of a High Frequency Transformer with HTS Winding and Amorphous Magnetic Core for Power Converter Application	International Conference on Applied Superconductivity and Electromagnetic Devices, ASEMD	ASEMD 2020	[43]
	Design and characterization of advanced magnetic material-based core for isolated power converters used in wave energy generation system	IET Electric Power Applications	Volume 14, issue 5, 2020	[44]
	A Novel Asymmetric Multilevel Inverter with Phase Disposed Switching Technique for Grid Integration of Solar Photovoltaic Systems	IEEE Region 10 Symposium	IEEE Conference, 2020	[8]
	Advanced Switching Technique based High-Frequency Magnetic Linked Asymmetric Multistring Inverter with Reduced THDs	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[3]
Md. Sayed Tanveer	Parametric Image-based Breast Tumor Classification Using Convolutional Neural Network in the Contourlet Transform Domain	The 11th International Conference on Electrical and Computer Engineering	ICECE 2020	[22]

	Determination of Initial Projectile Velocity in the Presence of Static Fields Using Deep Actor Critic Method	The 11th International Conference on Electrical and Computer Engineering	ICECE 2020	[23]
Md. Tariqul Islam	A Novel High Frequency Magnetic Linked Reduced Switch Multilevel Inverter for Solar Photovoltaic System		Australian Universities Power Engineering Conference	
	Performance Evaluation of Cascaded and Reduced Switch Multilevel Inverter Using Modified Carrier Based PWM Technique	GUB Journal of Science and Engineering (GUBJSE)	Vol 7, No 1, December 2020	[4]
	A New High Frequency Magnetic Link Based Asymmetric inverter for solar photovoltaic systems	International conference on applied Superconductivity and Electromagnetic devices,	IEEE International Conference_2020, tianjin, China	
	A Novel Asymmetric Multilevel Inverter with Phase Disposed switching Technique for Grid Integrated Solar Photovoltaic System	IEEE Region 10 symposium 2020	IEEE International Conference_2020, Dhaka, Bangladesh	[8]
	Performance Improvement of High Frequency Magnetic Linked Asymmetric Multistring Inverter with modified Switching Technique	International conference on power electronics and renewable energy applications	IEEE International Conference 2020, Kannur, Karala	[45]
	Performance Comparison of Asymmetric Seven Level Inverter for Solar Photovoltaic Systems	2nd ICAICT organized by UIU	IEEE International Conference_2020, Dhaka, Bangladesh	[9]
	A New Medium Voltage Multilevel Inverter with Advanced Carrier Pulse Width Modulation for Grid Integrated Photovoltaic system		STI_2019	[46]
	Advanced Switching Technique Based High Frequency Magnetic linked Assymmetric Multistring Inverter with Reduced THDs	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[3]
Meherun Nesa	Structural, Optical, and Electronic Properties of CuO and Zn doped CuO: DFT Based First-principles Calculations	Chemical Physics (Elsevier)	ISSN: 0301-0104 Indexation: Scopus	[47]
	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 (Elsevier)	https://doi.org/10.1016/j.mssp.2020.105479	[48]
Mosa-Farzana Israt	First-principles study on structural, mechanical and optoelectronic properties of lead-free mixed Ge-Sn hybrid organic-inorganic perovskites	Solid State Communications (Elsevier)	DOI: 10.1016/j.ssc.2020.114024	[49]

	First principle study of pristine and zinc doped B6 nanocluster	2019, IEEE International conference on sustainable Technologies for industry 4.0(STI)		[50]
Naznin Sultana Tuhin	Comparative Analysis, Simulation and Optimization of Current Density-Voltage Characteristics of CIGS and CZTS Thin Film Solar Cells	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[51]
Sourav Barua	Design and Implementation of Fire Extinguishing Ball Thrower Quadcopter	IEEE Region 10 Symposium (TENSYP)	IEEE International Conference_2020, Dhaka, Bangladesh	[52]
	Image processing intelligence analysis for robo res 1.0: a humanoid rescue robot	IEEE Region 10 Symposium (TENSYP)	IEEE International Conference_2020, Dhaka, Bangladesh	[53]
	FRIQ 1.0: A Guided Quadcopter to Inject Retardant Fluid or Gas Aerially into the Fire Affected Zone		STI 2020	[54]
	Cyclic task based affordable robot for medicine-intake purpose of COVID-19 patient	2nd International conference on robotics, electrical and signal processing techniques (ICREST 2021)	ICREST 2021	[55]
Tahrira Shathy	Structural, optical, and mechanical characteristics of vacuum deposited sputtered CrNiN thin films with Al and Si additives	Applied Surface Science (Elsevier)		
	A holistic approach on elemental, chemical bonding states and mechanical characterizations of vacuum sputtered CrNiN coatings: XPS and FEM assisted studies	Surface and Coatings Technology (Elsevier)		
Tashrifa Hussain	A DFT study on the geometrical structures, electronic, and spectroscopic properties of inverse sandwich monocyclic boron nanoclusters ConBm ($n = 1.2$; $m = 6-8$)	Journal of Molecular Modeling (Springer)	DOI: 10.1007/s00894-020-04419-z	[56]
Umma Syda Akther	Estimation of Structural, Electrical, and Magnetic Variations of Mn-Ni- Zn Ferrites by Substituting Rare Earth Y3+ for High-Frequency Applications	Journal of Superconductivity and Novel Magnetism	http://link.springer.com/article/10.1007/s10948-020-05471-9	[57]
Md. Naiem-Ur-Rahman	Voltage Control of Single Phase Islanded Microgrid by Fuzzy Logic Controller for Different Loads	IEEE Region 10 Symposium (TENSYP)	IEEE International Conference_2020, Dhaka, Bangladesh	[58]
Md. Naiem-	A Fuzzy Based MPPT Controller for PV	2020 IEEE International Conference on	2020 IEEE International	[59]

Ur-Rahman	System	Computing, Power and Communication Technologies (GUCON 2020)	Conference on Computing, Power and Communication Technologies, NCR New Delhi, India	
Md. Najmul Huda Bijoy	Performance Improvement of DFIG Based Wind Farms Using NARMA-L2 Controlled Bridge Type Flux Coupling Non-Superconducting Fault Current Limiter	IET Generation, Transmission & Distribution	Online ISSN 1751-8695 Print ISSN 1751-8687	[60]
Md. Mahfuzul Haque	Analytical modelling and verification of potential profile of DG JLFET with and without stack oxide	International Journal of Electronics	https://doi.org/10.1080/00207217.2020.1818842	[61]
	Characterization of Symmetric and Asymmetric Double Gate Junctionless Field Effect Transistor in Subthreshold Region	IEEE Region 10 Symposium (TENSYP)	IEEE International Conference_2020, Dhaka, Bangladesh	[62]
Md. Kamal Hossain	First-principles study on structural, mechanical and optoelectronic properties of lead-free mixed Ge–Sn hybrid organic-inorganic perovskitesa	Solid State Communications (Elsevier)	DOI: 10.1016/j.ssc.2020.114024	[49]
	Structural Mechanical and Optoelectronic Properties of Mixed-Metal Iodide (CH ₃ NH ₃ Ge _{0.125} Sn _{0.875} I ₃) Perovskite: First-Principles study	International Conference on Physics 2020	Organized by Bangladesh Atomic Energy Commission	[63]
Md. Masum Hossen	Design of An HNL Index Guiding Silica PCF for SCG: Applications in Dental Optical Coherence Tomography System	Internatinal Conference on Electrical and Electronics Engineering	ICEEE 2021	
Md. Imamul Islam	Investigation of PV Modules Electrical Characteristics for Laboratory Experiments using Halogen Solar Simulator	2nd International Conference on Sustainable Technology for Industry 4.0	STI_2020	[12]
Md. Kamrozzaman Kiron	Design of An HNL Index Guiding Silica PCF for SCG: Applications in Dental Optical Coherence Tomography System	Internatinal Conference on Electrical and Electronics Engineering	ICEEE 2021	

Note: It is to be noted that some of the publication issues are fairly recent and are yet to receive online indexing. Those papers have not been included as references.

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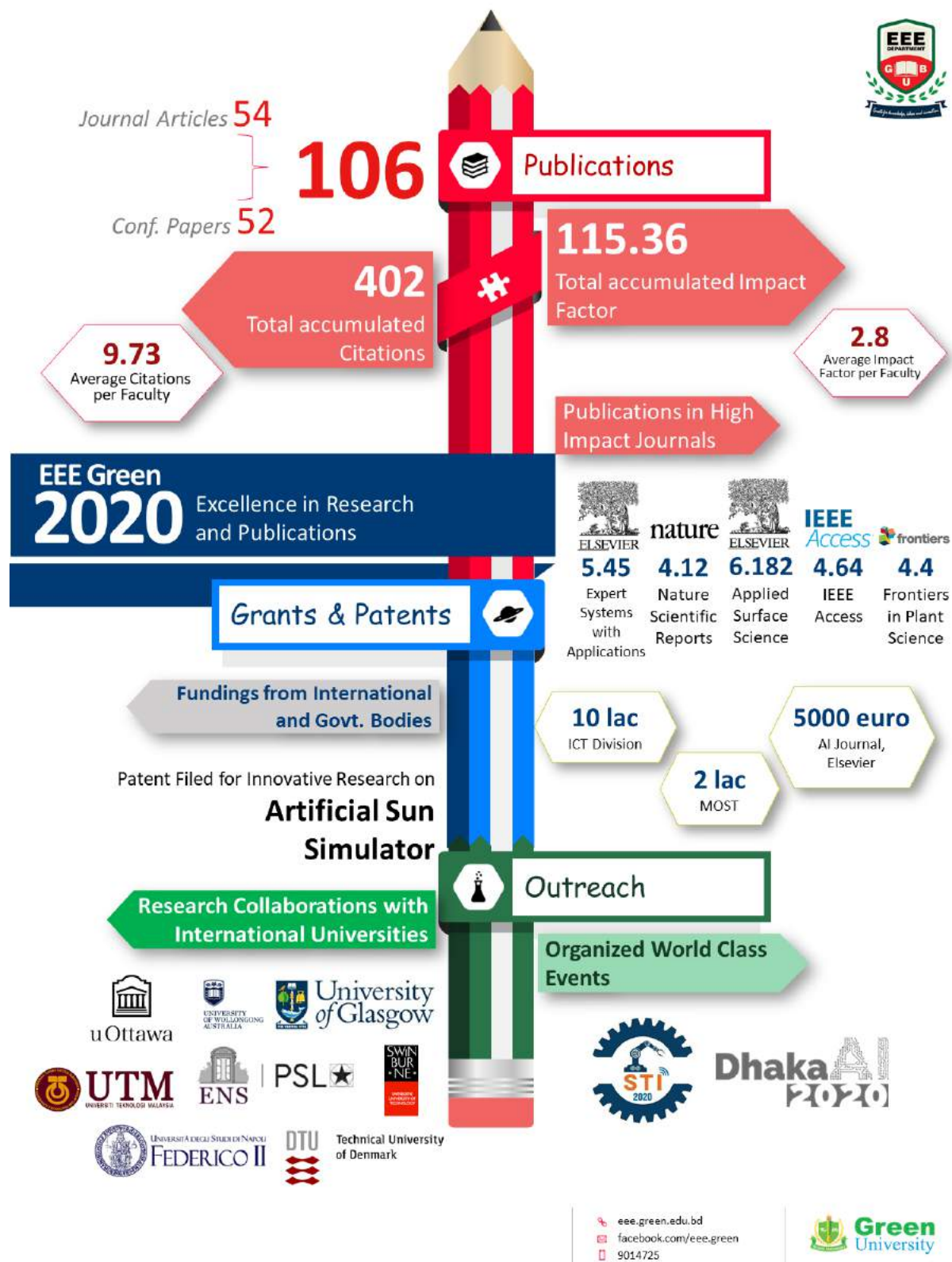
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Arrivals, Departures, and Promotions

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.
 - Mr. Anis Ahmed joined as a Lecturer (Contractual) of the Department in the Summer 2020 semester.
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- 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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