

WIE Newsletter

IEEE Women In Engineering Newsletter

Issue: 2017

Meet

**BUET WIE Student Branch
Affinity Group**



MESSAGE FROM FACULTY ADVISOR



BUET WIE Student Branch Affinity Group has been instrumental to create a wide platform for women engineers, scientists and young professionals. It is my privilege to be a part of the WIE newsletter published by BUET WIE Student Branch Affinity Group featuring their activities in 2017.

The events and activities featured here were carefully designed to enable young women engineers to be more competent and motivated to accept the challenges to shatter the glass ceiling and were highly aligned with the theme of the group, which is to inspire, engage, encourage and empower women in STEM fields.

This newsletter showcases how WIE is paving the way for women engineers, scientists and professionals in male dominated STEM professions in Bangladesh.

I would like to thank all the members and volunteers who have worked hard for publishing this informative newsletter.

A handwritten signature in black ink, enclosed in a hand-drawn oval. The signature appears to be 'Arnab'.

Arnab Bhattacharjee

Advisor, BUET WIE Student Branch Affinity Group
& Lecturer, Dept. of EEE, BUET, Dhaka, Bangladesh



WE BREAK THE STEREOTYPE

MESSAGE FROM BRANCH CHAIR



During my life at BUET I got the opportunity to learn about the art of leadership, flourish the skill of oratory and gather many knowledge about practical skills from working in BUET WIE Student Branch Affinity Group. It has been a great opportunity for me to build up myself as a confident, responsible individual and as a better person than before. None of these would have been possible without the impeccable leadership of our dearest faculty advisor, Dr. Celia Shahnaz, who has been the Paragon of the revolution for not only the female engineers but also every person who got the chance to encounter with her. There had been quite an emerging figure of potential youngsters and it was just a matter of time for the evolution of such a diligent group.

This year, BUET WIE Student Branch Affinity Group has emerged even more with their progressive accomplishments. My best wishes are always with them.

Zahra Zahin

Chair,
BUET WIE Student Branch Affinity Group



WE BREAK THE STEREOTYPE

EXECUTIVE COMMITTEE MEMBERS OF BUET WIE STUDENT BRANCH AFFINITY GROUP



Chair, Zahra Zahin



Vice Chair

Khandkar Sadia Rahman



Vice Chair

Musharrat Sabah



Secretary

Subrina Shawlin



Secretary

Nowshin Nawal



Treasurer

Nurun Nahar Mondol



Treasurer

Sadia Afrin



WE BREAK THE STEREOTYPE

1. International Women's Day Celebration 2017

On 18th March 2017, BUET WIE Student Branch Affinity Group and WIE Affinity Group, IEEE Bangladesh Section jointly organized 'International Women's Day Celebration 2017' in honor of all women out in the world fighting their way through the society to prove themselves. A total of 20 participants, including 12 female students, had joined the celebration.

"The story of women's struggle for equality belongs to no single feminist nor to any one organization but to the collective efforts of all who care about human rights," says world-renowned feminist, journalist and social and political activist Gloria Steinem. Thus International Women's Day is all about unity, celebration, reflection, advocacy and action - whatever that looks like globally at a local level. The definition of womanhood is no more simply bounded to 'beauty' and 'acquiesce'. That's why "Be bold for change"- was the theme of International Women's Day 2017.



Group photo

As a part of the celebration, a motivational session was conducted by MehnazKabir, Group Chief Marketing and Communications Officer, RANGS Group. MehnazKabir started her career at Grameenphone Limited in 2003. She has played significant roles as Head of Internal Communications at Grameenphone

Limited in 2010, Head of Communications at Ericsson Bangladesh in 2014 and later as Chief Communications Officer at RanksTel Limited in 2016.

The session started with an inspirational video showing the world's successful women and their courage and strength to fight major downfalls in their lives. The presented video clip intended to motivate every woman to discover and realize her true potential through a self-question: "What on earth am I here for?" It also highlighted the famous quote by Margaret Thatcher, Former Prime Minister of United Kingdom, "You turn [U-turn] if you want to. The lady's not for turning."

MehnazKabir talked about all the challenges and experiences from both her personal and corporate life. She also mentioned that it would never have been possible to reach the pinnacle her career without the utmost support of her family. To ensure women empowerment, the traditional concept and perspective needs to be changed and this change has to be started within ourselves.



Cake Cutting Session

This was followed by a video message featuring the former volunteers and executive members of WIE Affinity Group, IEEE Bangladesh Section. The session ended with a cake cutting ceremony and group photo session to honor International Women's Day and to express solidarity with women



empowerment. The event was a very successful one as it had attracted male participants as well. This indicates the support of men in empowering and encouraging women. BUET WIE SB AG and WIE AG, IEEE BDS would like to express their heartfelt gratitude to all the participants and the volunteers of BUET WIE SB AG for their tremendous effort.

2. BINARY LOGIC: A Practical Approach to Digital Electronics

BUET WIE Student Branch Affinity Group is pleased to announce the successful completion of the first ever outreach program organized for pre-university students held at YWCA Higher Secondary Girls' School on April 4, 2017.



Group photo of participant with instructors and volunteers

We were overwhelmed by the huge response and the enthusiasm of the participants forced us to carry out the workshop in more detailed way. A total number of 34 students, divided into 5 groups, attended the program.

We cordially thank the instructor Zahra Zahin, Chairperson, BUET WIE SB AG for conducting the workshop. We also thank our volunteers for their supportive attitude that made the workshop more appealing to the youngsters.

The workshop was started with a short motivating speech for the enthusiast minds

that would grow their interest to take engineering as



Super interactive mentoring

profession. The participants were then provided with logic gates, wire, LED to implement the circuits they had learnt in their textbook. The spark that was seen in their eyes when the LED was blinking is worth mentioning. Then they were also provided with some theoretical knowledge about number representation and arithmetic circuits. At last, they got really excited when they saw the practical application of the theory they have learned with their own eyes.



Enthusiastic participants and dedicated volunteers

We thank our appreciative and enthusiastic participants without whom the program holds no meaning. Their eagerness and patience



motivated the instructors to help them out with all the projects they wanted to implement.

We would also like to thank the Principal Ms. Anuvuti Sinha, Vice Principal Ms. Florence Gomes and the teachers, Ms. Rezwana and Ms. Shamsunnahar for giving us the opportunity to motivate the fresh minds to engineering profession and give them a practical vision of the theory they have learned from their textbook.

3. PCB Designing Workshop for Beginners

A workshop named "PCB Designing Workshop for Beginners" has been jointly organized by BUET WIE Student Branch Affinity Group and WIE Affinity Group, IEEE Bangladesh Section on 5th April, 2017 at the Department of EEE, Bangladesh University of Engineering and Technology (BUET).



The participants with our instructors

We were overwhelmed by the huge response and this response eventually forced the instructors to carry out the sessions in more details and with more care. We cordially thank our instructors, Ms. Baishakhi Rani Biswas, Lecturer at Department of EEE, Green University and Mr. Ratul Das, Graduate Research Assistant, BUET. The dedication and enthusiasm shown by our instructors was truly inspiring.

We are extremely grateful to Ms. Shoilie Chakma, Lecturer, Department of EEE, BUET and Treasurer, WIE Affinity Group, IEEE



The enthusiastic participants

Bangladesh Section for guiding the volunteers throughout the event and ensuring that the participants get maximum possible support and care.

We would not forget to thank our appreciative participants without whom this workshop holds no meaning. The eagerness to learn more and the patience that they showed were motivating.



Ms. Baishakhi Rani Biswas handing over the certificate to a participant

Getting the schematic from the computer screen or breadboard to Printed Circuit Board (PCB) is the most important part of manufacturing electronic devices, robotics & embedded systems. Moving to a PCB has a



wide range of advantages. It makes the final design robust, durable, dependable and replicable. That's why our instructors started from the scratch of PCB designing using Proteus software.

At the end, all the participants were awarded with certificates. Last but not the least, a cheer up for the valiant leadership and dedication of our volunteers without which BUET WIE Student Branch Affinity Group is always incomplete.

4. BUET WIE Student Branch Affinity Group Membership Drive

BUET WIE Student Branch Affinity Group organized a Membership Drive from April 10, 2017 to April 12, 2017 to recruit and retain members. The drive was first of its kind for BUET WIE SB AG and was outright successful in its mission.



BUET WIE SB AG Executive Committee members at work

For the three days, a booth was set up on the plinth of ECE Building, BUET for membership form distribution and fee collection. Vibrant posters and banners displaying the various previous activities of BUET WIE SB AG adorned the booth and attracted a huge number of prospective female engineers. Our enthusiastic and active volunteers briefed the inquisitive minds about WIE and informed them on the diverse benefits an IEEE membership entails. Visitors also learned about

the upcoming WIE activities for students that the student branch aims to organize in the first half of the year.

The drive was stationed for three hours each day from 11 am to 2 pm and was occasionally visited by Dr. Celia Shahnaz, Professor, Department of EEE, BUET and Faculty Advisor, BUET WIE SB AG, who motivated the volunteers and members with her inspirational words. The drive saw an impressive number of students collecting the membership form; a greater portion of which were for retaining their memberships.



An enthusiastic student learning about the importance of IEEE membership

BUET WIE SB AG wishes to coordinate such drives once in each academic term to promote female participation in IEEE activities.

5. EEE DAY 2017: POSTER COMPETITION

Over the years, poster presentation has become one of the main attractions of conferences. Keeping that in mind, 'EEE DAY 2017: Poster Competition' was jointly organized by Department of EEE, BUET and BUET WIE Student Branch Affinity group on May 18, 2017. The event was sponsored by Singularity Interactive Ltd. For the very first time in the



history of BUET EEE DAY, an event of this kind was held, to give the undergraduate students a platform to grab the opportunity of evaluating their work and practice their presentation skills.

Over the years, poster presentation has become one of the main attractions of conferences. To present research work in a conference and grab attention to a research topic, knowledge about



Judging segment with our honorable faculties

how to make a valuable poster is needed. To share research ideas and to receive critiques on work that can help students in the future, a poster needs to be presented in a formal but attractive way.



Honorable Dr. Md. Ziaur Rahman Khan sir evaluating the posters

The scope of this presentation was innovation in any EEE related work, such as Control System, Microprocessor, Biomedical,

Electronics, Power System, Signal Processing etc. A total of 26 teams from BUET and 10 other renowned private universities, including AUST, NSU and AIUB registered for the competition. The aim of this event was to hone the skills of participants that would eventually help them in presenting their research findings to a larger audience.

The range of projects showcased on posters varied, but were mostly humanitarian, with a few in the field of technological advancement. The colorful posters graced the plinth of ECE Building, BUET on 18th afternoon and were visited by other project enthusiastic students. The enquiries of the students were answered diligently by the teams comprising of 2-3 members.



Participants demonstrating their posters

Our honorable judges for the competition, Dr. Mohammad Faisal, Professor, Dept. of EEE, BUET; Mr. Md. Ayaz Masud, Lecturer, Dept. of EEE, BUET; Mr. Asir Intisar Khan, Lecturer, Dept. of EEE, BUET were welcomed to the event soon after it started. The judges, each specialized under different fields of EEE, examined the posters and made critical queries to the participants for a fair judgment. The participants presented their ideas with utmost rigor and confidence to the judges for the ultimate first prize of 5000 BDT.



Certificates and T-shirts were provided to all the participants. The event was a success as it helped the participants to present their research/project and grab the attention of the distinguished personalities in the academic sector.

6.EEE DAY 2017 JOB SEMINAR

Worrying throughout the university life about none other than career has become the undeniable fate of the students. Therefore, Department of EEE, BUET, in collaboration with BUET WIE Student Branch Affinity Group, organized a “Job Seminar” on the occasion of EEE Day 2017, to give a break to this dread that has consumed minds of the graduating students. The event, sponsored by Islami Bank Bangladesh Ltd. was held on the 18th of May, Thursday, 2017, from 10:30am to 2:00 pm. The Job Seminar was one of the most crucial parts of the celebration, including a successful talk about job opportunities, featured by important representatives from various industries. A total of 80 ambitious and enthusiastic graduating students were present in the seminar.



Participants attending the talk

The first speaker of the seminar was the General Manager of Summit Communication briefing about the history and success of their industry; followed by the HR, Mr. Md Asif Hasan, who discussed about their internship programs, job eligibility and the procedure of

job application. Next, Col. Mamun from Bangladesh Army was present among the students with a different aspect of a successful engineering carrier along with serving the country directly.

The next speaker was the honorable CEO of Sine Pulse GMBH and Aplomb Tech BD., Mr. Md. SaifSaifullah, who delivered a motivational speech about career and development in his industry and also shared his life and exclusive job recruitment experiences. Followed by this was a session by Mr. Hasan Mahmud Khan, Head of Sales, Rahimafrooz Renewable Energy Ltd.



Interactive session among speakers and participants

One of the most desirable job industries for Electronic and Electrical Engineers is Power Grid Company of Bangladesh Ltd, (PGCB). Mr. A. K. M. GauseMohiuddin Ahmed, Superintending Engineer and Project Director, PGCB was present with us.

Last but not the least, was a session by the Deputy Manager of Energypac Engineering Ltd., PramitiAnasuyaAlam.

All the speakers ended their speech with a questionnaire session, where they addressed all sorts of enquiries from the participants. Afterwards, they were all presented with tokens of appreciation, on behalf of the



Department of EEE, BUET from honorable faculties of the department.



A good number of female participants attended the seminar

We would like to express our gratitude towards Dr. Celia Shahnaz, Professor, Dept. of EEE, BUET and Convener, EEE Day 2017. This event would not have been possible without the kind supervision and co-operation of Dr. Md. Zahurul Islam, Associate Professor, Dept. of EEE, BUET; Dr. Md. Farhad Hossain, Associate Professor, Dept. of EEE, BUET and Mr. Mohammad Abdullah Al Shohel, Lecturer, Dept. of EEE BUET. Our respected faculties played a very important role in the event by taking the lead role with their presence and continuous vigilance throughout. Apart from all that, although needless to say, the event would not be a success without the dedication of the speakers and organizers; and the enthusiastic contribution of the participants.

7. Practical Implementation of Decade Counter:

BUET WIE Student Branch Affinity Group is pleased to announce the successful completion of the second phase of outreach program organized for pre-university students held at Holy Cross College on September 14, 2017.

We were overwhelmed by the huge response and the enthusiasm of the participants forced

us to carry out the workshop in more detailed way. A total number of 40 students, divided into 7 groups, attended the program.

We cordially thank the instructor Zahra Zahin, Chairperson, BUET WIE SB AG for conducting the workshop. We also thank our volunteers for their supportive attitude that made the workshop more appealing to the youngsters.

In the first session of the workshop a short speech was given on the outstanding contribution of women in science and technology to motivate the students and to grow their interest in this field.



Group photo

In the next session a brief presentation was made on Green Technology, Renewable energy and Smart grid. Then in the practical session students were first provided with necessary theoretical knowledge on decade counter and other components to implement the circuit. After that each group was given the components. Volunteers were always ready to help them whenever they need. The spark that was seen in their eyes when the counter started counting after getting clock pulse is worth mentioning. At last, they got really excited when they saw the practical application of the theory they have learned with their own eyes.

At the last section an MCQ based test was taken and three highest mark obtainers were



awarded. We thank our appreciative and enthusiastic participants without whom the program holds no meaning. Their eagerness and patience motivated the instructors to help them out with all the projects they wanted to implement.



Students of Holy Cross College attending the workshop

We would also like to thank the Principal Sister Shikha Gomes, the teachers for giving us the opportunity to motivate the fresh minds to engineering profession and give them a practical vision of the theory they have learned from their textbook.

8. TechBeez Road Show:

IEEE BUET Student Branch WIE Affinity Group has been working to create a platform and networking opportunities for students in engineering and technology. As a part of that process IEEE Student Branch WIE Affinity Group is very proud to announce the successful completion of 'TechBeez'- a networking event and a competition platform aimed at connecting aspiring female students in STEM (science, technology, engineering and math) which was held at 19th of September, 2017.

In total 12 participants attended the workshop in which they got to know the rules and regulations to participate in 'TechBeez'. Two trainer from the 'TechBeez' delivered a

wonderful slide show presentation about the competition.



Group photo of the participants

TechBeez is launching a tech based idea generation competition for the aspiring female students in STEM where they are required to submit an innovative and tech based idea (either a product or service) that addresses social issues.

Without the support of our dedicated volunteers it was next to impossible to arrange a successful program like this.

9. IEEE Day celebration 2017:

An industrial tour at National Load Dispatch Centre (NLDC) was jointly arranged by WIE BUET Student Branch Affinity Group and WIE Bangladesh Centre as a part of the IEEE DAY celebrations 2017. The tour was held in 19th of October, Thursday.



Group photo of participants in the industrial tour



The participants learned what power grid company of Bangladesh Ltd. (PGCB) is and

what objectives it accomplishes they learned that it was entrusted with the responsibility to own the national power grid to operate and expand the same with efficiency.

It was astounding to see the huge response we received. We would be honored to thank our appreciative participants without whom this tour would have been next to impossible to organize. The eagerness to learn more and the patience that they showed were motivating.



Transmission tower at NLDC

Last but not the least a big round of applause for the valiant leadership and dedication of our volunteers.

10. Simulink workshop:

IEEE BUET Student Branch arranged a 'Workshop on Simulink' on 16th of October 2017 as a part of IEEE Day Celebration 2017. It was organized jointly by IEEE BUET Student Branch and WIE Student Branch Affinity Group. The aim of the workshop was to introduce enthusiastic students to Simulink – the most commonly used graphical programming environment in the world and how it is used to solve real world problem.

The workshop was conducted in two parts, the first part was conducted by Asir Intisar Khan,

Lecturer, Dept. of EEE, BUET and Treasurer, IEEE EMBS Bangladesh Chapter. In the first part he discussed about the software, its uses and also discussed about its interface.



Group photo of participants with instructors and volunteers

The second part was conducted by Mohammad Tariqul Islam, Lecturer, Dept. of EEE, BUET. In the second part, Simulink was used to simulate transmission line from the power plant to utility to determine the necessary parameters and any anomalies.

The participants were deeply focused as Asir Intisar Khan and Mohammad Tariqul Islam delivered their lectures and guided the session towards completion. The session was made very interactive, with the students frequently asking questions and getting satisfactory answers from the instructors. The instructors

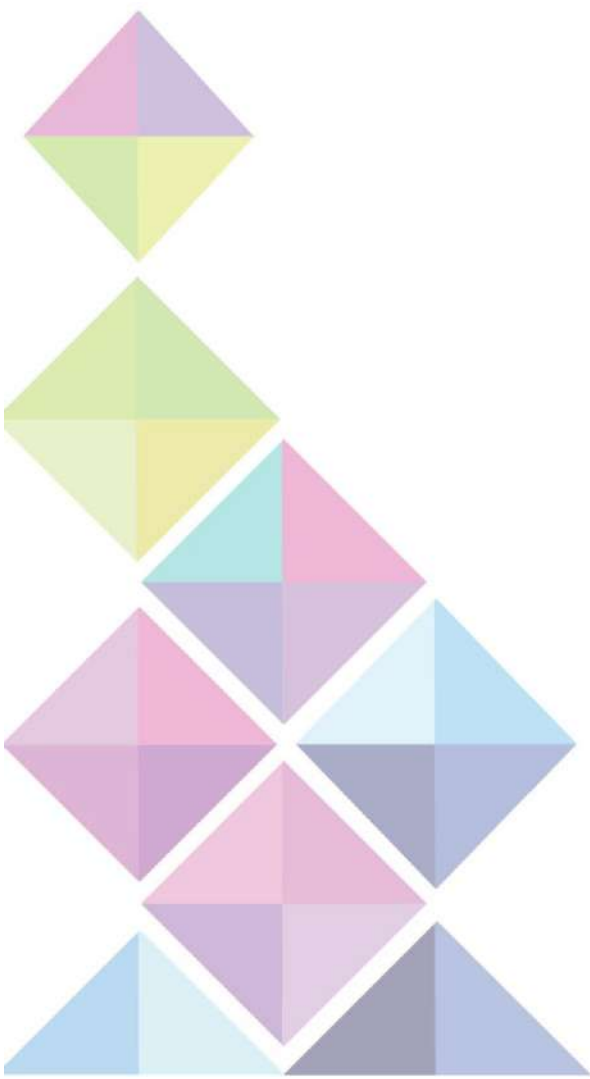


Instructor Asir Intisar Khan sir delivering lectures to participants



were presented with tokens of appreciation, as the two and a half hour workshop was successfully brought to an end.

We were overwhelmed by the huge response. We would not forget to thank our appreciative participants without whom this workshop holds no meaning. The eagerness to learn more and the patience that they showed were motivating. Last but not the least, a cheer up for the valiant leadership and dedication of our volunteers without which IEEE BUET Student Branch is always incomplete.





IEEE BDS SYWC 2017

BLAZING OUR OWN TRAIL

IEEE BUET WIE STUDENT BRANCH AFFINITY GROUP

Nurun Nahar Mondol, Treasurer; BUET WIE SB AG; ieee.wie.buet.branch@gmail.com

BUET WIE SB AG OVERVIEW

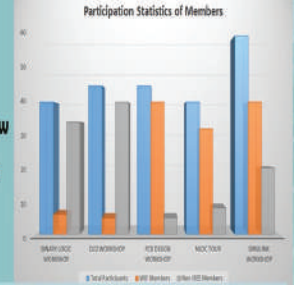
BUET WIE Student Branch Affinity Group under Women In Engineer Affinity Group, IEEE Bangladesh Section and IEEE Region 10(R10) has a large family of 315 active members. Various programs are conducted at BUET campus by BUET WIE SB AG which includes Tech -Talk, Workshops, Seminars, Industrial Tours etc.



General Meeting



Road Show by TechBeez



Our Future Plans

- * Workshop on paper writing
- * Technical Talk on Prospects of Power Electronics in Bangladesh
- * Self-defence workshop
- * Career expo
- * Technical Talk on GSM Technology to prevent violence against woman
- * Inter University Programming Contest

IEEE DAY 2017 CELEBRATION



Industrial Tour at NLDC

To celebrate IEEE DAY 2017, BUET WIE SB AG and WIE AG IEEE BDS had jointly organized an industrial tour
 Participant: WIE Member : 25 Non-IEEE Member: 15
 Place: National Load Dispatch Center, Rampura, Dhaka.
 Date: October 19, 2017



Workshop on Simulink

BUET WIE SB AG and IEEE BUET SB jointly organized this workshop
 Instructor: Asir Intibar Khan Lecturer Dept. of EEE, BUET
 Mohammad Tariqul Islam, Lecturer, Dept. of EEE, BUET
 No of Participant: WIE Member: 40 Non-IEEE Member: 20
 Date: October 16, 2017

MEMBERSHIP DRIVE



BUET WIE SB AG Membership Drive

BUET WIE SB AG organized a Membership Drive to recruit and retain members.
 Place: ECE Building BUET
 Date: From April 10 to April 12, 2017

FACULTY ADVISOR



Dr. Celia Shahnaz
 Professor, Dept. of EEE, BUET
 Email: celiashahnaz@gmail.com
 Phone: +88 01928568547

EXECUTIVE COMMITTEE

Chair : Zahra



Vice-Chair: Sadia



Secretary : Shawlin



Treasurer: Sadia



Vice-Chair: Musarrat



Secretary : Nowshin



Treasurer: Mondol



OUTREACH PROGRAMS



Workshop on Binary Logic

BINARY LOGIC: Practical Approach to Digital Electronics was organized by WIE BUET SB AG
 Instructor: Zahra Zahin Chair BUET WIE SB AG
 No. of Participant: WIE Member 06 Non-IEEE Member 34
 Place: YWCA Higher Secondary Girls' School
 Date: April 4, 2017.



Workshop on Digital Electronics

A Little Dive into Tech-Dream was jointly organized by BUET WIE SB AG and WIE AG IEEE BDS
 Instructor: Nurun Nahar Mondol, Treasurer BUET WIE SB AG
 No of Participant: WIE member : 04 Non-IEEE Member : 40
 Place: Holy Cross College
 Date: September 14, 2017

WORKSHOP



Workshop on PCB Design

PCB Designing Workshop for Beginners has been jointly organized by BUET WIE SB AG and WIE AG IEEE BD
 Instructor: Ms. Baishtabi Rani Binwas Lecturer Dept. of EEE, Green University
 Mr. Ratul Das Graduate Research Assistant BUET.
 Participant: 45
 Date: April 5, 2017

EEE DAY 2017 CELEBRATION



Poster Competition

This competition was jointly organized by Dept. of EEE, BUET and BUET WIE SB AG
 Judges: Dr. Mohammad Faisal Professor Dept. of EEE, BUET.
 Mr. Md. Ayaz Masud Lecturer Dept. of EEE, BUET.
 Mr. Asir Intibar Khan Lecturer Dept. of EEE, BUET.
 Participant: 26 Teams
 Date: May 18, 2017



Job Seminar

This was jointly organized by Dept. of EEE, BUET and BUET WIE SB AG
 Speakers: Mr. Md. Asif Hossain GM, Summit Communication.
 Col. Manan Bangladesh Army
 Mr. Md. Saif Sultanah CEO, Siva Pulse GmbH and Aplomb Tech BD
 Mr. Hossain Mahmud Khan, Head of Sales, Rafimetroz Renewable Energy Ltd.
 Pramiti Ananya Alam, Deputy Manager of Energypac Engineering Ltd.
 No of Participant: 90
 Date: May 18, 2017

OTHER



International Women's Day Celebration 2017

BUET WIE SB AG and WIE AG, IEEE BDS jointly organized International Women's Day Celebration 2017
 Motivational Speaker: Mehruza Kabir Group Chief Marketing and Communications Officer RANGI Group
 No. of Participants: 20
 Date: March 18, 2017