



Green University of Bangladesh

Department of Electrical & Electronic Engineering



Abstract

Green University Electrical & Electronic Engineering department is one of the biggest department in GUB. In this report the annual activities has been attached along with some successful activities of EEE Department and EEE Club.

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Overview of the Department

Electrical and Electronic Engineering (EEE) education has entered a transitional phase. All the areas of the electrical and electronic engineering are growing rapidly and new fascinating disciplines of this subject are being created. Keeping this in mind, an international standard and current job market oriented undergraduate course curriculum of Electrical and Electronic Engineering (EEE) Department at Green University of Bangladesh (GUB) has been designed. The main focus of the B.Sc. in EEE curriculum is on four major areas- power and energy, electronics, communication and computer. A student is expected to specialize in one of these groups without compromising the fundamental knowledge in EEE. Courses on basic sciences, mathematics, English language, social sciences, business studies, relevant branches of Engineering including laboratory works are also incorporated in the curriculum. The Department of Electrical and Electronic Engineering, under the Faculty of Science and Engineering, is one of the largest departments of Green University of Bangladesh in terms of the number of students and full-time and part-time faculty members. At present, EEE Department has over 1250 registered undergraduate students and annual student intake is approximately 400. More than 800 students have already graduated from EEE department. In this department, we have already established 12



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laboratories. All of these laboratories are fully computer-based and are equipped with very highly configured equipment including 42 desktop computers and various licensed software's. We are upgrading and purchasing more equipment and software day by day and thus improving the quality of our laboratory experiments to cope with the changes of the engineering, science and technology. We have very highly qualified excellent bunch of Faculty Members to provide effective teaching and learning. Among them 23 are full-time and 5 are adjunct Faculty Members. All of them are from various renowned universities of Bangladesh. In this department, we have 7 laboratory technicians, 1 administrative officer and 5 other staffs. All of them work very hard for the betterment of the department and provide all possible supports to the students. Apart from the academic and administrative facilities of this department, we have also many extra-curricular activities; we have a departmental club named EEE Club that is open for all the students of this department.

EEE Department has already applied for the accreditation of its undergraduate program from the Board of Accreditation for Engineering and Technical Education (BAETE) under the umbrella of the IEB in September 2013. We are closely working on it and hopeful that we will get the accreditation of our program from IEB very soon.

Our specifically targeted curriculum prepares the graduates to compete in the high-tech job market on a global scale. In addition to the foreign job opportunities, graduates can avail job opportunities in the country, both in public and private sector in the diversified areas, such as, electrical power generation, transmission and distribution, telecommunication industry, wireless and mobile telecommunication companies, satellite communication systems, integrated circuit (IC) design, satellite television channels, switching systems, networking, consumer electronics manufacturer, process industries, textile industries, computer industry, design firms of embedded system, microprocessor and microcontroller based systems etc. To prepare the students, EEE Department undertakes various extended learning activities inside the department through the year apart from class room teaching and learning. In this annual report, few of these important activities are presented for the year 2019.

Vision Statement

Electrical and Electronic Engineering (EEE) Department of Green University of Bangladesh as a leading departments devoted to ensure transformational impact on learning community of the EEE students, faculty members and staffs who are engaged in teaching, innovating, discovering and creating new knowledge in the field of Electrical and Electronic Engineering and thus serving the country as well as humanity to develop human capital and to produce new knowledge based economy and society.

Mission Statement

The mission of the Electrical and Electronic Engineering Department of Green University of Bangladesh (GUB) is to enhance the position of the EEE Department as one of the top ranked teaching and research departments in GUB by providing the highest quality teaching and learning environment for the students and thus producing the competent and compassionate EEE graduates fully equipped to achieve the highest personal and professional standards for the overall development of the university and of the country. Moreover, the Department is dedicated to attracting and sustaining a cluster of faculty members who are, through their quality teaching, research and service, devoted to the development of compassionate EEE graduates.

Department Goals

Goals of the Department of Electrical and Electronic Engineering are to:

- (a) Prepare the students for entry into the profession;
- (b) 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; and
- (c) 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

Annual Activities

EEE DAY-2018 & 2019



Green University Electrical & Electronic Engineering along with EEE club have arranged EEE DAY in 2019 and 2018. It is the biggest festival of EEE department. Various workshops and seminars has been arranged along with indoor games, online games and cultural ceremony. Students from other universities participate in Project showcasing and Poster presentation.



Workshops & Seminars



Fig-1: Workshop on COMSOL, EEE DAY-2019



Fig-2: Workshop on Freelancing & Outsourcing, EEE DAY-2019



Fig-3: Seminar on Career Development by Bangladesh IT Institute



Fig-4: Seminar on Research Methodology, EEE DAY-2019



Fig-5: Seminar on Career Talk, EEE DAY-2018



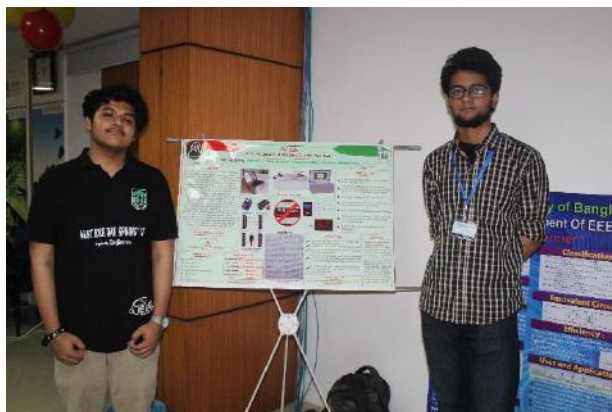
Fig-6: Workshop on MATLAB, EEE DAY-2018

Project Showcasing





Poster Presentation



Job Fair

For the new graduate students EEE department & EEE club arranged Job Fair in EEE DAY-2018 & EEE DAY-2019. A better chance has been given to the graduates to ensure their job through this Job Fair.



Indoor and Online Games





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Orientation Program

At the beginning of every semester the Fresher's Orientation Program of EEE Department were organized by EEE club. Newly admitted students, all faculty members and staffs of the Department sincerely attended the program. Departmental course curriculum, different activities, mentorship program, and other necessary information's were usually delivered by the chairperson, Prof. Dr. Md. Fayzur Rahman and all other faculty members were introduced by themselves. The university authority provides lunch for all fresher's, faculties and staffs on this occasion.





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Permanent Campus Visit

Under the guidance of Professor Dr. Md. Fayzur Rahman around 40 students from the Department of Electrical and Electronic Engineering in new semester visited the permanent campus of Green University of Bangladesh in every semester 2018 & 2019. The construction work of administrative building is already done and its architectural looks attracted the students very much. The university authority provides bus services for this purpose. The students played football and cricket in the ground and they also arranged lunch program in the permanent campus.



Industrial Tour

The final year students had the opportunity to gather practical knowledge from the training officials and the Engineers regarding the geometrical structure of the plant, its construction and working procedure, the method of power generation, the safety and security measurements. Forty (40) students led by, Mr. Khan Rahmat Ullah, Mr. Md. Hasan Maruf and Mr. Md. Shaheen Hawlader guided the students during the study tour.

The tour consisted of three parts. At first, students visited the Karnafulli Hydroelectric Power Plant, Kaptai, Rangamati on 9th February. They observed the mechanical control room, turbine coupled with generator. At last, they observed the substation. At electrical control room the students observed many control panels, such as, control panels for 230kV, 132kV, 33kV and 11kV bus bars, switch gears, isolator control knobs, breaker operation knob, ammeter; voltmeter etc.



On next day students moved to Cox's Bazar Teknaf 20MW Solartech Energy Ltd. Teknaf and visited the whole area. The supervisor of the power plant had shown the solar PV, Combiner box, transformer, generator and explain the process of transmission of energy through solar. After that the student visited control room and learned the process of control through a software. Lastly students explored the grid supply process of the power plant.





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On 11th February, students went for a visit at Bangladesh Submarine Cable Company Ltd. Cox's Bazar. Students participated on a workshop based on submarine cable arranged by the facilitator of the company. Students also visited the control room and explore certain things about the transmission process of optical signal.



Iftar Mahfil

In 2018 & 2019 Ramadan Green University EEE department & EEE club arranged an Iftar Mahfil. Around 200-250 students attended in Iftar Mahfil along with honorable Prof. Dr. Md Golam Samdani Fakir, Vice Chancellor, Prof. Dr. Muhammad Fayyaz Khan, Pro-Vice Chancellor, Prof. Dr. Md. Fayzur Rahman, Chairperson of EEE department, Md Saiful Islam, Register, Md. Shahidullah, Treasurer and respected faculties.



Club Fair

With the supervision of Students Affairs of GUB, EEE Club participated last Club Fair and won the first prize. Moreover, EEE club is the only club to achieve this award three times consecutively in 2015, 2016 & 2017. This is a clear indication of the progress of extracurricular activities in EEE department.



Inter Department Football Competition

EEE department participated at the inter department football competition 2019 under the observation of sports club and wins semifinal. Apart from this, in 2018, EEE was the runner up in Inter Department Football Competition 2018.



21th February

Prof. Dr. Md. Fayzur Rahman, Chairperson, EEE and senior faculty members Md. Hasan Maruf, Khan Ramat Ullah attended in the program of Ekushe February 2019 with EEE students

